

Supplement

to the

Annual Report 2006

Berlin 2006

Supplement, Annual Report 2006

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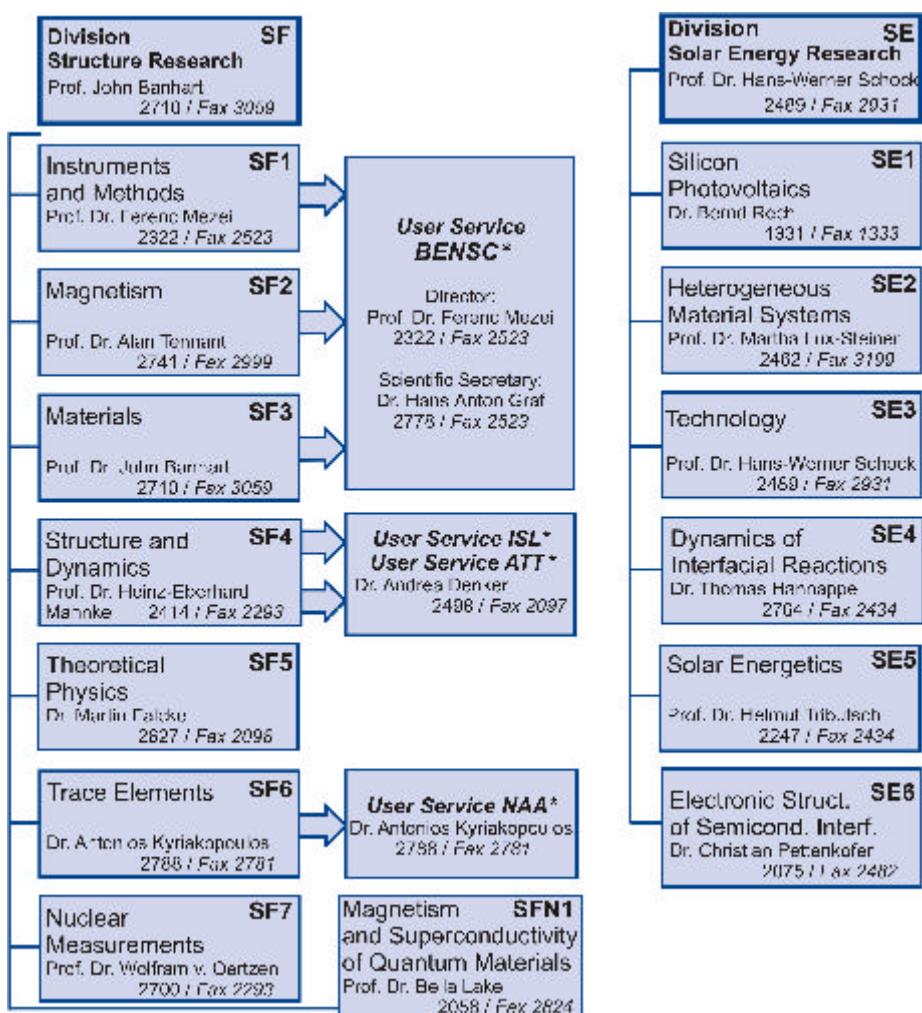
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Preface

This supplement to the Annual Report 2006 is supposed to provide in addition to the scientific highlights of the HMI a survey of the scientific activities in terms of publications, contributions to conferences etc.

Following the internal organisation of the institute, these lists are ordered along the divisions, departments and, wherever reasonable, along the R&D-projects within the latter. Publications and conference contributions are ascribed to a definite R&D-project. When authors from different departments have contributed, this contribution is listed under all involved departments and the respective R&D-project is indicated.

The organisation chart for the scientific divisions valid for 2006 reads as follows:



* ATT = Eye Tumour Therapy

BENSC = Berlin Neutron Scattering Center

ISL = Ion Beam Laboratory

NAA = Neutron Activation Analysis

R&D-projects in the matrix of departments versus Helmholtz programmes

Dep.	Research fields and programmes				
	Structure of Matter: PNI		Health	Energy	
	Research	Large scale facilities	Cancer	Environ. Health	Renewable Energies
		BENSC.User			
SF1	SF1.Methods SF1.Spallation SF1.Dynamics	SF1.BENSC			
SF2	SF2.Thin films SF2.Novel Materials SF2.Quantum Phenomena	SF2.BENSC SF2.BESSY			
SF3	SF3.Microstructure SF3.Light weight mat. SF3.Nanostructures	SF3.BENSC SF3.BESSY			
SF4	SF4.Dynamics SF4.Structures	ISL.User ISL.Development ISL.Accelerator SF4.BESSY	ISL.PPT		
SF5	SF5.Soft Matter SF5.Hard Matter SF5.Biosystems				
SF6		SF6.NAA		SF6.Analysis SF6.Proteins	
SF7	SF7.Q3D SF7.Detector				
SE1					SE1.Cells SE1.Hetero
SE2					SE2.Semico SE2.Contacts SE2.Integration SE2.Chemistry SE2.Concepts SE2.Analytics
SE3					SE3.Baseline SE3.Control
SE4					SE4.Cells SE4.Dynamics
SE5					SE5.Energetics SE5.Interfaces
SE6					SE6.Interfaces SE6.BESSY

Publications

SF - Structural Research

SF - BENSC

BENSC.User

Jenichen, B. ; Takagaki, Y. ; Ploog, K.H. ; Darowski, N. ; Feyerherm, R. ; Zizak, I.

Nucleation at the phase transition near 40 °C in MnAs nanodisks

Applied Physics Letters
89 (2006) 051915/1 - 3

Kavecansky, V. ; Mihalik, M. ; Mat'as, S. ; Mitroova, Z. ; Lukacova, M.

Crystal structure and magnetism of $\text{Pr}[\text{Fe}(\text{CN})_6] \cdot 4\text{D}_2\text{O}$

Zeitschrift für Kristallographie
Suppl. 23 (2006) 543 - 548

Laurenze-Landsberg, C. ; Schmidt, C. ; Schröder-Smeibidl, B. ; Mertens, L.A.

BENSC neutrons for cultural heritage research: Neutron autoradiography of paintings

Notiziario Neutroni e Luce di Sincrotrone
11 (2006) 24 - 27

Tripadus, V. ; Radulescu, A. ; Pieper, J. ; Buchsteiner, A. ; Podlesnyak, A. ; Janssen, S. ; Serban A.

Molecular dynamics in triglycine sulphate by cold neutron spectroscopy

Chemical Physics
322 (2006) 323 - 330

SF1.BENSC

Andersen, A.H. ; Jensen, J. ; Jensen, T.B.S. ; Pinholt, R. ; Zimmermann, M.V. ; Noergaard Toft, K. ;
Abrahamsen, A.B. ; Hedegard, P. ; Vorderwisch, P. ; Canfield, P.

Magnetic and quadrupolar ordering in $\text{TmNi}_2\text{B}_2\text{C}$

Physica B 385-386 (2006) 63-65
385-386 (2006) 63 - 65

Bentley, P.M. ; Kilcoyne, S.H.

Determination of hyperfine field distributions in amorphous magnets

Journal of Physics: Condensed Matter
18 (2006) 7751 - 7759

Bentley, P.M. ; Pappas, C. ; Habicht, K. ; Lelievre-Berna, E.

Evolutionary programming for neutron instrument optimisation

Physica B
385-386 (2006) 1349 - 1351

Boin, M. ; Haibel, A.

Compensation of ring artefacts in synchrotron tomographic images

Optics Express
14 (2006) 12071 - 12075

Chatterji, T. ; Koza, M.M. ; Demmel, F. ; Schmidt, W. ; Hoffmann, J.-U. ; Aman, U. ; Schneider, R. ; Dhalenne, G. ; Suryanarayanan, R. ; Revcolevschi, A.

Coexistence of ferromagnetic and antiferromagnetic spin correlations in $\text{La}_{1.2}\text{Sr}_{1.8}\text{Mn}_2\text{O}_7$

Physical Review B
73 (2006) 104449/1 - 6

Danilyan, G.V. ; Fedorov, A.V. ; Krakhotin, V.A. ; Pavlov, V.S. ; Brakhman, E.V. ; Karpikhin, I.L. ; Korobkina, E.I. ; Golub, R. ; Wilpert, T. ; Russina, M.

Search for scission neutrons using specific angular correlations in ^{235}U fission induced by slow polarized neutrons

Physics of Atomic Nuclei
69 (2006) 1158 - 1160

Fâk, B. ; Rüegg, Ch. ; Niklowitz, P.G. ; McMorrow, D.F. ; Canfield, P.C. ; Bud'ko, S.L. ; Janssen, Y. ; Habicht, K.

Magnetic phase diagram of heavy-fermion YbAgGe

Physica B: Condensed Matter 378-380 (SPEC. ISS.), pp. 669-670 (2006)
378-380 (2006) 669 - 670

Füzi, J. ; David, E. ; Kozlowski, T. ; Lewis, P. ; Messing, G. ; Mezei, F. ; Penttila, S. ; Rosta, L. ; Russina, M. ; Török, Gy.

Neutron optical imaging study of neutron moderator and beam extraction system

Physica B
385-386 (2006) 1315 - 1317

Golub, R. ; Gähler, R. ; Habicht, K. , Klimko, S.

Bunching of continuous neutron beams

Physics Letters A
349 (2006) 59 - 66

Henkel, F. ; Hermeking-Göbel, U. ; Lemke, P. ; Wilpert, T. ; Pietsch, C. ; Schneider, R.

E7 - New strain scanner at HMI - High q-resolution for phase-sensitive analysis of stress distributions

Materials Science Forum
524-525 (2006) 205 - 208

Hofmann, M. ; Schneider, R. ; Seidl, G.A. ; Rebelo-Kornmeier, J. ; Wimpory, R.C. ; Garbe, U. ; Brokmeier, H.-G.

The new materials science diffractometer STRESS-SPEC at FRM-II

2006, 1035 - 1037

Hofmann, M. ; Seidl, G.A. ; Rebelo-Kornmeier, J. ; Garbe, U. ; Schneider, R. ; Wimpory, R.C. ; Wasmuth, U. ; Noster, U.

The new materials science diffractometer STRESS-SPEC at FRM-II

Materials Science Forum
524-525 (2006) 211 - 216

Hoinkis, E. ; Röhl-Kuhn B.

In situ small-angle neutron scattering study of nitrogen adsorption and condensation in mesoporous silica glass CPG-10-75

Journal of Colloid and Interface Science
296 (2006) 256 - 262

Jauch, W. ; Reehuis, M.

Electron density distribution in paramagnetic chromium: A gamma-ray diffraction study

Physical Review B
73 (2006) 085102/1 - 8

Kartini, E. ; Arai, M. ; Mezei, F. ; Nakamura, M. ; Russina, M.

Structure and dynamics on superionic conducting phosphate glasses by neutron scattering

Physica B
385-386 (2006) 236 - 239

Keppas, L.K. ; Katsareas, D.E. ; Wimpory, R.C. ; Anifantis, N.K. ; Youtsos, A.G.

Letterbox type repair weld finite element simulation and residual stress prediction

Materials Science Forum

524-525 (2006) 445 - 450

Lee, H.-Y. ; Biglari, F.R. ; Wimpory, R. ; Nikbin, K.M.

Treatment of residual stress in failure assessment procedure

Engineering Fracture Mechanics

73 (2006) 1755 - 1771

Levchanovsky, F.V. ; Litvinenko, E.I. ; Nikiforov, A.S. ; Gebauer, B. ; Schulz, Ch. ; Wilpert, Th.

Software modules of DAQ PCI board (DeLiDAQ) for positive-sensitive MWPC detectors with delay line readout

Nuclear Instruments and Methods in Physics Research, A

569 (2006) 900 - 904

McEwen, K.A. ; Jensen, J. ; Beirne, E.D. ; Allen, J.P. ; Habicht, K. ; Adroja, D.T. ; Bewley, R.I. ; Fort, D.

Multiple magnetic singlet-singlet excitations in intermetallic PrNiSn

Physical Review B

73 (2006) 014402/1 - 7

Nakamura, M. ; Arai, M. ; Kartini, E. ; Taylor, J.W. ; Russina, M.

Unique vibrational excitations in superionic conducting glass

In: Flow dynamics : the second international conference on ... Sendai, Japan, 16 - 18 November 2005, eds.

Tokuyama, M. [u.a.]

American Institute of Physics, Melville, N.Y., 2006, 504 - 507

Nakamura, M. ; Iwase, H. ; Arai, M. ; Kartini, E. ; Russina, M. ; Yokoo, T. ; Taylor, J.W.

Low energy vibrational excitations characteristic of superionic glass

Physica B

385-386 (2006) 552 - 554

Ohms, C. ; Neov, D. ; Youtsos, A.G. ; Wimpory, R.C.

Evaluation of novel post weld heat treatment in ferritic steel repair welds based on neutron diffraction

In: Residual Stress and Its Effects on Fatigue and Fracture : Proceedings of a Special Symposium held within the 16th European Conference of Fracture -- ECF16, Alexandroupolis, Greece, 3-7 July, 2006, eds. Youtsos, A.G.

Springer, Berlin, 2006, 55 - 66

Ohms, C. ; Truman, C. ; Wimpory, R.C. ; Gripenberg, H. ; Smith, D. ; Youtsos, A.G.

Measurement of residual stress in as received and repaired clad components

In: Proceedings of PVP2006-ICPVT-11 2006 ASME Pressure Vessels and Piping Division Conference July

23-27, 2006, Vancouver, BC, Canada [Ausg. auf CD]

2006, 1 - 9

Pappas, C. ; Ehlers, G. ; Mezei, F.

Neutron-spin-echo spectroscopy and magnetism

In: Neutron scattering from magnetic materials, eds. Chatterji, T.

Elsevier, Amsterdam, 2006, 521 - 542

Peters, J. ; Lieutenant, K. ; Clemens, D. ; Mezei, F.

EXED - the new Extreme Environment Diffractometer at the Hahn-Meitner-Institut Berlin

Zeitschrift für Kristallographie

Suppl. 23 (2006) 189 - 194

Poeste, T. ; Wimpory, R.C. ; Schneider, R.

The new and upgraded neutron instruments for material science at HMI - current activities in cooperation with industry

Materials Science Forum

524-525 (2006) 223 - 228

Rehfeldt, F. ; Steitz, R. ; Armes, S.P. ; von Klitzing, R. ; Gast, A.P. ; Tanaka, M.

Reversible activation of diblock copolymer monolayers at the interface by pH modulation, 2:

Membrane interactions at the solid/liquid interface

Journal of Physical Chemistry B.; (Article); 2006; 110(18); 9177-9182.

110 (2006) 9177 - 9182

Rehfeldt, F. ; Steitz, R. ; Armes, S.P. ; von Klitzing, R. ; Gast, A.P. ; Tanaka, M.

Reversible activation of diblock copolymer monolayers at the interface by pH modulation, 1: Lateral chain density and conformation

Journal of Physical Chemistry B

110 (2006) 9171 - 9176

Ribeiro, P.A. ; Steitz, R. ; Lopis, I. E. ; Haas, H. ; Souza, N.C. ; Oliveira, O.N. ; Raposo, M.

Thermal stability of poly(o-methoxyaniline) layer-by-layer films investigated by neutron reflectivity and UV-vis spectroscopy

Journal of Nanoscience and Nanotechnology

6 (2006) 1396 - 1404

Russina, M. ; Arai, M. ; Kartini, E. ; Mezei, F. ; Nakamura, M.

Mobile cation motion in superionic glasses

Physica B

385-386 (2006) 240 - 242

Russina, M. ; Mezei, F. ; Kozlowski, T. ; Lewis, P. ; Penttila S.

Experimental study of the coupled moderator performance at LANSCE in short and long pulse spallation modes of operation

In: Proceedings of the 17th Meeting of the International Collaboration on Advanced Neutron Sources ICANS - XVII : April 24-29, 2005, Santa Fe, New Mexico, USA, eds. Russell, G.J. [u.a.]
2006, 478 - 483

Stone, M.B. ; Broholm, C. ; Reich, D.H. ; Tchernyshyov, O. ; Vorderwisch, P. ; Harrison, N.

Quantum criticality in an organic magnet

Physical Review Letters

96 (2006) 257203/1 - 4

Strobl, M. ; Treimer, W. ; Hilger, A.

Scattering-related contrast signals in neutron computerized tomography and the new v12 instrument at HMI Berlin

Physica B

385-386 (2006) 1209 - 1212

Temst, K. ; Popova, E. ; Loosvelt, H. ; Van Bael, M.J. ; Brems, S. ; Bruynseraede, Y. ; Van Haesendonck, C. ; Fritzsch, H. ; Gierlings, M. ; Leunissen, L.H.A. ; Jonckheere, R.

The influence of finite size and shape anisotropy on exchange bias: A study of patterned Co/CoO nanostructures

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS

304 (2006) 14 - 18

Treimer, W. ; Hilger, A. ; Strobl, M.

Slit and phase grating diffraction with a double crystal diffractometer

Physica B

385-386 (2006) 1388 - 1391

Triolo, A. ; Mandanici, A. ; Russina, O. ; Rodriguez-Mora, V. ; Cutroni, M. ; Hardacre, C. ; Nieuwenhuyzen, M. ; Bleif, H.J. ; Keller, L. ; Ramos, M.A.

Thermodynamics, structure, and dynamics in room temperature ionic liquids: The case of 1-butyl-3-methyl imidazolium hexafluorophosphate ([bmim][PF₆])

JOURNAL OF PHYSICAL CHEMISTRY B

110 (2006) 21357 - 21364

Walker, H.C. ; McEwen, K.A. ; Adroja, D.T. ; Park, J.G. ; Kwon, Y.S. ; So, J.Y. ; Kockelmann, W. ; Meissner, M.

Inelastic neutron scattering and heat capacity studies of ferromagnetic PrInNi4

PHYSICA B

385 (2006) 41 - 43

Wimpory, R.C. ; Biglari, F.R. ; Schneider, R. ; Nikbin, K.M. ; O'Dowd, N.P.

Effect of residual stress on high temperature deformation in a weld stainless steel

Materials Science Forum

524-525 (2006) 311 - 316

Wimpory, R.C. ; Ohms, C. ; Hornak, P. ; Neov, D. ; Youtsos, A.G.

Residual strain measurement of C/C-SiC tubes at high temperature

Materials Science Forum

524-525 (2006) 665 - 670

SF2.BENSC

Ashley, R.H. ; Harroun, T.A. ; Hauss, T. ; Breen, K.C. ; Bradshaw, J.P.

Autoinsertion of soluble oligomers of Alzheimer's A β (1-42) peptide into cholesterol-containing membranes is accompanied by relocation of the sterol towards the bilayer surface

BMC Structural Biology

6 (2006) 21 (1-11)

Baran, S. ; Gondek, L. ; Hernandez-Velasco, J. ; Kaczorowski, D. ; Szytula, A.

Magnetic ordering in RPtIn (R = Dy and Ho) ternary intermetallics

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS

305 (2006) 196 - 201

Baran, S. ; Henkel, F. ; Kaczorowski, D. ; Hernandez-Velaseo, J. ; Penc, B. ; Stüsser, N. ; Szytula, A. ; Wawrzynska, E.

Magnetic properties of the RCoxGe2 (R = Gd-Er) compounds

JOURNAL OF ALLOYS AND COMPOUNDS

415 (2006) 1 - 7

Baranov, N.V. ; Yermakov, A.A. ; Pirogov, A.N. ; Proshkin, A.V. ; Gvasaliya, S.N. ; Podlesnyak, A.

Irreversibility of the magnetic state of Tm_{1-x}Tb_xCo₂ revealed by specific heat, electrical resistivity, and neutron diffraction measurements

Physical Review B 73 (2006) 104445

73 (2006) 104445/1 - 11

Buchsteiner, A. ; Lerf, A. ; Pieper J.

Water dynamics in graphite oxide investigated with neutron scattering

Journal of Physical Chemistry B

110 (2006) 22328 - 22338

Conder, K. ; Stingaciu, M. ; Pomjakushina, E. ; Podlesnyak, A.

Structural, magnetic and transport properties of layered cobaltites LnBaCo₂O_{5+x}

Advances in Science and Technology

45 (2006) 2554 - 2559

Dennison, S.R. ; Hauß, T. ; Dante, S. ; Brandenburg, K. ; Harris, F. ; Phoenix, D.A.

Deuteration can affect the conformational behaviour of amphiphilic α -helical structures

Biophysical Chemistry

119 (2006) 115 - 120

Dyakonov, V. ; Bukhanko, F. ; Kamenev, V. ; Zubov, E. ; Baran, S. ; Jaworska-Golab, T. ; Szytula, A. ; Wawrzynska, E. ; Penc, B. ; Duraj, R. ; Stüsser, N. ; Arciszewska, M. ; Dobrowolski, W. ; Dyakonov, K. ; Pientosa, J. ; Manus, O. ; Nabialek, A. ; Aleshkevych, P. ; Puzniak, R. ; Wisniewski, A. ; Zuberek, R. ; Szymczak, H.

Structural and magnetic properties of La_{1-x}Pr_xMnO_{3+delta} (0 <= x <= 1.0)

PHYSICAL REVIEW B

74 (2006) 024418

Efimov, V.V. ; Efimova, E.A. ; Iakubovskii, K. ; Karpinskii, D.V. ; Khasanov, S. ; Kochubey, D.I. ; Kriventsov, V.V. ; Kuzmin, A. ; Sazonov, A.P. ; Sikolenko, V. ; Sakharov, M. ; Shmakov, A.N. ; Tiutiunnikov, S.I.

Effect of high-current pulsed electron beam irradiation on the structure of La_{0.7}Sr_{0.3}CoO₃ powder

Journal of Physics and Chemistry of Solids

67 (2006) 2001 - 2006

Efimov, V.V. ; Efimova, E.A. ; Iakubovskii, K. ; Khasanov, S. ; Kochubey, D.I. ; Kriventsov, V.V. ; Kuzmin, A. ; Mavrin, B.N. ; Sakharov, M. ; Sikolenko, V. ; Shmakov, A.N. ; Tiutiunnikov, S.I.

EXAFS, X-ray diffraction and Raman studies of (Pb_{1-x}La_x)(Zr_{0.65}Ti_{0.35})O₃ (x = 0.04 and 0.09) ceramics irradiated by high-current pulsed electron beam

Journal of Physics and Chemistry of Solids

67 (2006) 2007 - 2012

Fujisawa, M. ; Ono, T. ; Fujiwara, H. ; Tanaka, H. ; Sikolenko, V. ; Meissner, M. ; Smeibidl, P. ; Gerischer, S. ; Graf, H.

Drastic change of magnetic phase diagram in doped quantum antiferromagnet TiCu_{1-x}Mg_xCl₃

Journal of the Physical Society of Japan

75 (2006) 033702/1 - 4

Gilles, R. ; Mukherji, D. ; Hoelzel, M. ; Strunz, P. ; Toebbens, D.M. ; Barbier, B.

Neutron and X-ray diffraction measurements on micro- and nano-sized precipitates embedded in a Ni-based superalloy and after their extraction from the alloy

Acta Materialia

54 (2006) 1307 - 1316

Glavatskyy, I. ; Glavatska, N. ; Söderberg, O. ; Hannula, S.-P. ; Hoffmann, J.-U.

Transformation temperatures and magnetoplasticity of Ni-Mn-Ga alloyed with Si, In, Co or Fe

Scripta Materialia

54 (2006) 1891 - 1895

Golosova, N.O. ; Kozlenko, D.P. ; Sikolenko, V.V. ; Sazonov, A.P. ; Troyanchuk, I.O. ; Savenko, B.N. ; Glazkov, V.P.

High pressure effects on the crystal and magnetic structure of the Nd_{0.78}Ba_{0.22}CoO₃ cobaltite

JETP Letters

84 (2006) 16 - 20

Golosovsky, I. ; Dvornikov, V. ; Hansen, T. ; Fokin, A. ; Koroleva, E. ; Korotkov, L. ; Naberezhnov, A. ; Tovar, M.

Structure and conductivity of nanostructured sodium nitrite

In: Mechanical spectroscopy III : MS-3, eds. Darinskii, B.M. [u.a.]

2006, 221 - 228

Golosovsky, I.V. ; Mirebeau, I. ; Andre, G. ; Tovar, M. ; Tobbens, D.M. ; Kurdyukov, D.A. ; Kumzerov, Y.A.

Magnetic phase transition in a nanostructured antiferromagnet CoO embedded in porous glass

PHYSICS OF THE SOLID STATE

48 (2006) 2130 - 2133

Golosovsky, I.V. ; Tovar, M. ; Hoffman, U. ; Mirebeau, I. ; Fauth, F. ; Kurdyukov, D.A. ; Kumzerov, Y.A.

Diffraction studies of the crystalline and magnetic structures of gamma-Fe₂O₃ iron oxide nanostructured in porous glass

JETP LETTERS

83 (2006) 298 - 301

- Guenter, M.M. ; Lerch, M. ; Boysen, H. ; Toebbens, D. ; Suard, E. ; Baehtz, C.*
Combined neutron and synchrotron X-ray diffraction study of Sr/Mg-doped lanthanum gallates up to high temperatures
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS
67 (2006) 1754 - 1768
- Hoelzel, M. ; Del Genovese, D. ; Gilles, R. ; Mukherji, D. ; Toebbens, D.M. ; Roesler, J. ; Fuess, H.*
Phase analysis and lattice mismatches in superalloys DT706 and Inconel 706
Physica B
385-386 (2006) 594 - 596
- Idzikowski, B. ; Kudryavtsev, Y.V. ; Hyun, Y.-H. ; Lee, Y.-P. ; Klenke, J.*
Magnetic effects of structural disorder in the itinerant ferromagnet Ni₃Al studied by magnetic and neutron methods on stoichiometric and off-stoichiometric samples
Journal of Alloys and Compounds
423 (2006) 267 - 273
- Karpinsky, D.V. ; Troyanchuk, I.O. ; Dobryansky, V.M. ; Szymczak, R. ; Tovar, M.*
Crystal structure and magnetic properties of the LaCo0.5Fe0.5O₃ perovskite
CRYSTALLOGRAPHY REPORTS
51 (2006) 596 - 600
- Khalil-Allafi, J. ; Schmahl, W.W. ; Toebbens, D.M.*
Space group and crystal structure of the R-phase in binary NiTi shape memory alloys
ACTA MATERIALIA
54 (2006) 3171 - 3175
- Khomchenko, V.A. ; Troyanchuk, I.O. ; Mantytskaya, O.S. ; Tovar, M. ; Szymczak, H.*
Crystalline and magnetic structures of La_{1-x}B_xMnO_{3+delta} manganites
JOURNAL OF EXPERIMENTAL AND THEORETICAL PHYSICS
103 (2006) 54 - 59
- Khomchenko, V.A. ; Troyanchuk, I.O. ; Sazonov, A.P. ; Sikolenko, V.V. ; Szymczak, H. ; Szymczak, R.*
Metamagnetic behaviour in TbCo_{0.5}Mn_{0.5}O_{3.06} perovskite
Journal of Physics: Condensed Matter
18 (2006) 9541 - 9548
- Kirstein, O. ; Prager, M. ; Grimm, H. ; Buchsteiner, A. ; Wischnewski, A.*
Quasi-elastic neutron spectroscopy and rotational potentials of methyl halides
Physica B
385-386 (2006) 47 - 49
- Köbler, U. ; Hoser, A. ; Hoffmann, J.-U.*
Crystal field effects in the 3d transition metal compounds
Physica B
382 (2006) 98 - 104
- Köbler, U. ; Hoser, A. ; Hoffmann, J.-U. ; Thomas, C.*
One-dimensional bulk ferromagnets: NdAl₂ and hcp cobalt
Solid State Communications
137 (2006) 301 - 305
- Lee, S. ; Pirogov, A.N. ; Podlesnyak, A.A. ; Prokes, K. ; Dorofeev, Yu.A. ; Teplykh, A.E. ; Swainson, I.P. ; Park, J.-G.*
Unusual magnetic phase transitions of TbNi₅
Physica B
385-386 (2006) 349 - 352

Lerf, A. ; Buchsteiner, A. ; Pieper, J. ; Schöttl, S. ; Dekany, I. ; Szabo, T. ; Boehm, H.P.

Hydration behavior and dynamics of water molecules in graphite oxide

Journal of Physics and Chemistry of Solids

67 (2006) 1106 - 1110

Lobanovsky, L.S. ; Troyanchuk, I.O. ; Szymczak, H. ; Prokhnenco, O.

Structure and physical properties of layered double perovskite $\text{NdBaCo}_2\text{O}_{5.50+d}$ ($d \sim 0.25$)

Journal of Experimental and Theoretical Physics

103 (2006) 740 - 746

Loewenhaupt, M. ; Schedler, R. ; Witte, U. ; Rotter, M. ; Schmidt, W.

Unconventional magnetic excitation in the Kondo lattice CeCu_2

Physica B

378-380 (2006) 775 - 777

Meerschaut, J. ; L'abbe, C. ; Almeida, F.M. ; Jiang, J.S. ; Pearson, J. ; Welp, U. ; Gierlings, M. ; Maletta, H. ; Bader, S.D.

Hard-axis magnetization behavior and the surface spin-flop transition in antiferromagnetic Fe/Cr(100) superlattices

PHYSICAL REVIEW B

73 (2006) 144428

Milani, S. ; Baldelli Bombelli, F. ; Berti, D. ; Hauß, T. ; Dante, S. ; Baglioni, P.

Structural investigation of bilayers formed by 1-palmitoyl-2-oleylphosphatidylnucleosides

Biophysical Journal

90 (2006) 1260 - 1269

Niki, H. ; Hamamoto, Y. ; Uezu, M. ; Pieper, M.W. ; Gratz, E. ; Hense, K. ; Hoser, A. ; Stuesser, N. ; Paul-Boncour, V. ; Markosyan, A.S.

Field induced metamagnetic transition of ErCo_3 studied by NMR

JOURNAL OF ALLOYS AND COMPOUNDS

408 (2006) 340 - 342

Pephrnski, B. ; Tobbens, D.M. ; Kockelmann, W. ; Ibberson, R.M.

On the uncertainty of lattice parameters refined from neutron diffraction data

ZEITSCHRIFT FÜR KRISTALLOGRAPHIE

Suppl. 23 (2006) 21 - 26

Prchal, J. ; Javorsky, P. ; Prokes, K. ; Ouladdiaf, B. ; Andreev, A.V.

Magnetic structures in DyNiAl single crystal

Physica B

385-386 (2006) 346 - 348

Qureshi, N. ; Fuess, H. ; Ehrenberg, H. ; Hansen, T.C. ; Ritter, C. ; Prokes, K. ; Podlesnyak, A. ; Schwabe, D.

Magnetic properties of the Kagomé mixed compounds $(\text{Co}_x\text{Ni}_{1-x})_3\text{V}_2\text{O}_8$

Physical Review B

74 (2006) 212407/1 - 4

Raasch, S. ; Doerr, M. ; Kreyssig, A. ; Loewenhaupt, M. ; Rotter, M. ; Hoffmann, J.-U.

Magnetic shape memory effect in the paramagnetic state in RCu_2 (R=rare earth) antiferromagnets

Physical Review B

73 (2006) 064402/1 - 7

Sal, J.C.G. ; Marcano, N. ; Espeso, J.I. ; Velasco, J.H. ; Farago, B.

Neutron studies in inhomogeneous magnetic systems

PHYSICA B

385 (2006) 372 - 374

Sazonov, A.P. ; Troyanchuk, I.O. ; Kozlenko, D.P. ; Balagurov, A.M. ; Sikolenko, V.V.

Magnetic ordering in the Nd₂CoMnO_{6+d} perovskite system

Journal of Magnetism and Magnetic Materials

302 (2006) 443 - 447

Sazonov, A.P. ; Troyanchuk, I.O. ; Sikolenko, V.V.

Spin state of the Co ions in NdCoO₃

Crystallography Reports

51 (2006) 11 - 15

Schilling, H. ; Lerch, M. ; Boerger, A. ; Becker, K.D. ; Wolff, H. ; Dronskowski, R. ; Bredow, T. ; Tovar, M. ; Baehtz, C.

A new anatase-type phase in the system Mg-Ta-O-N

JOURNAL OF SOLID STATE CHEMISTRY

179 (2006) 2416 - 2425

Scholtes, B. ; Zinn, W. ; Ilg, U. ; Backfisch, W. ; Gibmeier, J. ; Kirch, D.

Untersuchung einer mehrlagigen Schweißnaht eines dickwandigen Rohres aus dem austenitischen Stahl X6 CrNiNb 18 10

Materialwissenschaft und Werkstofftechnik

37 (2006) 947 - 959

Szytula, A. ; Balandia, A. ; Kaczorowski, D. ; Baran, S. ; Gondek, L. ; Hernandez-Velasco, J. ; Penc, B. ; Stüsser, N. ; Wawrzynska, E.

Magnetic, electronic and transport properties of RaG(2)Ge(2) (R=Pr, Nd) compounds

INTERMETALLICS

14 (2006) 853

Szytula, A. ; Balandia, M. ; Kaczorowski, D. ; Baran, S. ; Gondek, L. ; Hernandez-Velasco, J. ; Penc, B. ; Stüsser, N. ; Wawrzynska, E.

Magnetic, electronic and transport properties of RAg₂Ge₂ (R=Pr, Nd) compounds

INTERMETALLICS

14 (2006) 315 - 324

Szytula, A. ; Kaczorowski, D. ; Baran, S. ; Hernandez-Velasco, J. ; Penc, B. ; Stüsser, N. ; Wawrzynska, E. ; Gofryk, K.

Magnetic, electronic and transport properties of the Ce₃Ag₄X₄ (X = Ge, Sn) compounds

INTERMETALLICS

14 (2006) 702 - 709

Süllow, S. ; Otop, A. ; Klenke, J. ; Feyerherm, R. ; Hendrikx, R.W.A. ; Mydosh, J.A.

Magnetic irreversibility in the antiferromagnetic state of UPt₂Si₂

Journal of Applied Physics

99 (2006) 08F704/1 - 3

Vasilovsky, S.G. ; Sikolenko, V.V. ; Beskrovny, A.I. ; Belushkin, A.V. ; Flerov, I.N. ; Tressaud, A. ; Balagurov, A.M.

Neutron diffraction studies of temperature induced phase transitions in Rb₂KFeF₆ elpasolite

Zeitschrift für Kristallographie

Suppl. 23 (2006) 467 - 472

Vecchini, C. ; Moze, O. ; Hoser, A. ; Prager, M. ; Argyriou, D. ; Michels, A. ; Roessli, B. ; Weissmuller, J. ; Lemier, C. ; Viswanath, R.N.

A neutron-scattering investigation of the magnetic structure and magnetic excitations in nanocrystalline Tb

JOURNAL OF APPLIED PHYSICS

99 (2006) 08F502

Vokhmyanin, A.P. ; Lee, S. ; Jang, K.-H. ; Podlesnyak, A.A. ; Keller, L. ; Prokes, K. ; Sikolenko, V.V. ; Park, J.-G. ; Skryabin, Yu.N. ; Pirogov, A.N.

Commensurate-incommensurate phase transition in TbNi₅

Journal of Magnetism and Magnetic Materials

300 (2006) e411 - e414

Winn, B.L. ; Kimura, H. ; Argyriou, D.N. ; Aso, N. ; Hirota, K. ; Kofu, M. ; Matsuura, M.

Magnetic field-induced change of modulated antiferromagnetic correlations for La_{1.85}Sr_{0.15}Cu_{1-y}Zn_yO₄ with y=0.004, 0.02

PHYSICA B

385 (2006) 153 - 155

SF3.BENSC

Bronstein, L.M. ; Khotina, I.A. ; Chernyshov, D.M. ; Valetsky, P.M. ; Timofeeva, G.I. ; Dubrovina, L.V. ; Stein, B. ; Karlinsey, R. ; Triolo, A. ; Weidenmann, A. ; Lo Celso, F. ; Triolo, R. ; Khokhlov, A.R.

Morphology of hybrid poly styrene-block-poly(ethylene oxide) micelles: Analytical ultracentrifugation and SANS studies

JOURNAL OF COLLOID AND INTERFACE SCIENCE

299 (2006) 944 - 952

De Lisi, R. ; Gradzielski, M. ; Lazzara, G. ; Milioto, S. ; Muratore, N. ; Prevost, S.

Aqueous block copolymer-surfactant mixtures and their ability in solubilizing chlorinated organic compounds. A thermodynamic and SANS study

Journal of Physical Chemistry B

110 (51) (2006) 25883 - 25894

Fiori, F. ; Giunta, G. ; Hilger, A. ; Kardjilov, N. ; Rustichelli, F.

Non-destructive characterization of archaeological glasses by neutron tomography

Physica B

385-386 (2006) 1206 - 1208

Fiori, F. ; Hilger, A. ; Kardjilov, N. ; Albertini, G.

Crack detection in Al alloy using phase-contrast neutron radiography and tomography

Measurement Science and Technology

17 (2006) 2479 - 2484

Hassanein, R. ; de Beer, F. ; Kardjilov, N. ; Lehmann, E.

Scattering correction algorithm for neutron radiography and tomography tested at facilities with different beam characteristics

Physica B

385-386 (2006) 1194 - 1196

Hilger, A. ; Kardjilov, N. ; Strobl, M. ; Treimer, W. ; Banhart, J.

The new cold neutron radiography and tomography instrument CONRAD at HMI Berlin

Physica B

385-386 (2006) 1213 - 1215

Kardjilov, N. ; Fiori, F. ; Giunta, G. ; Hilger, A. ; Rustichelli, F. ; Strobl, M. ; Banhart, J. ; Triolo, R.

Neutron tomography for archaeological investigations

Journal of Neutron Research

14 (2006) 29 - 36

Kardjilov, N. ; Garcia-Moreno, F.

Overview of imaging with X-rays and neutrons

Notiziario Neutroni e Luce di Sincrotrone

11 (2006) 15 - 23

Kindratschuk, V. ; Wanderka, N. ; Banhart, J.

?/?" Co-precipitation in Inconel 706 alloy: A 3D finite element study

Materials Science and Engineering A

417 (2006) 82 - 89

Lenné, T. ; Bryant, G. ; Garvey, C.J. ; Keiderling, U. ; Koster, K.L.

Location of sugars in multilamellar membranes at low hydration

Physica B

385-386 (2006) 862 - 864

Macht, M.-P. ; Zumkley, T. ; Suzuki, S. ; Mechler, S.

Endformnahe Mikrobauteile durch superplastische Umformung von metallischem Massivglas = Near-net shape microcomponents obtained by superplastic forging of bulk metallic glass

Praktische Metallographie = Practical Metallography

43 (2006) 215 - 223

Saroun, J. ; Kocík, J. ; Garcia-Matres, E. ; Muránsky, O. ; Strunz, P.

Characterisation of radiation-induced precipitates in reactor pressure vessel steels

Zeitschrift für Kristallographie

Suppl. 23 (2006) 393 - 398

Strunz, P. ; Schumacher, G. ; Vaßen, R. ; Wiedenmann, A. ; Ryukhtin, V.

In situ small-angle neutron scattering study of $\text{La}_2\text{Zr}_2\text{O}_7$ and SrZrO_3 ceramics for thermal barrier coatings

Scripta Materialia

55 (2006) 545 - 548

Treimer, W. ; Strobl, M. ; Kardjilov, N. ; Hilger, A. ; Manke, I.

Wavelength tunable device for neutron radiography and tomography

Applied Physics Letters

89 (2006) 203504/1 - 3

Triolo, A. ; Russina, O. ; Keiderling, U. ; Kohlbrecher, J.

Morphology of poly(ethylene oxide) dissolved in a room temperature ionic liquid: a small angle neutron scattering study

The Journal of Physical Chemistry B

110 (2006) 1513 - 1515

Wiedenmann, A.

Small angle neutron scattering investigations of magetic nanostructures

In: Neutron scattering from magnetic materials, eds. Chatterji, T.

Elsevier, Amsterdam, 2006, 473 - 520

SF - BENSC

Addenda to 2005

SF1.BENSC

Stockert, O. ; Deppe, M. ; Faulhaber, E. ; Jeevan, H.S. ; Schneider, R. ; Stußer, N. ; Geibel, C. ; Loewenhaupt, M. ; Steglich, F.

Antiferromagnetism in $\text{CeCu}_2(\text{Si}_{1-x}\text{Ge}_x)_2$: nature of the A phase

Physica B

359-361 (2005) 349 - 356

SF2.BENSC

Appavou, M.S. ; Gibrat, G. ; Bellissent-Funel, M.-C. ; Plazanet, M. ; Pieper, J. ; Buchsteiner, A. ; Annighöfer, B.17

The influence of a medium pressure on the structure and dynamics of a bovine pancreatic trypsin inhibitor protein

Journal of Physics: Condensed Matter
17 (2005) S3093 - S3099

Dennison, S.R. ; Dante, S. ; Hauß, T. ; Brandenburg, K. ; Harris, F. ; Phoenix, D.A.

Investigations into the membrane interaction of m-Calpain domain V

Biophysical Journal
88 (2005) 3008 - 3017

Kiselev, M.A. ; Ryabova, N.Y. ; Balagurov, A.M. ; Dante, S. ; Hauss, T. ; Zbytovska, J. ; Wartewig, S. ; Neubert, R.H.H.

New insights into the structure and hydration of a stratum corneum lipid model membrane by neutron diffraction

European Biophysical Journal
34 (2005) 1030 - 1040

Link, T. ; Epishin A. ; Klaus, M. ; Brückner, U. ; Reznicek, A.

<100> Dislocations in nickel-base superalloys: Formation and role in creep deformation

Materials Science and Engineering A
405 (2005) 254 - 265

Toda, M. ; Fujii, Y. ; Kawano, S. ; Goto, T. ; Chiba, M. ; Ueda, S. ; Nakajima, K. ; Kakurai, K. ; Klenke, J. ; Feyerherm, R. ; Meschke, M. ; Graf, H.A. ; Steiner, M.

Field-induced magnetic order in the singlet-ground-state magnet CsFeCl₃

Physical Review B
71 (2005) 224426/1 - 5

SF3.BENSC

Lee, S.W. ; Kardjilov, N. ; Cho, S.J. ; Sim, C.M.

Conceptual design of the cold neutron radiography facility at HANARO

In: 2005 IEEE Nuclear Science Symposium conference record : Nuclear Science Symposium and Medical Imaging Conference ; October 23 - 29, 2005, Wyndham El Conquistador Resort, [Fajardo], Puerto Rico, eds. Bo Yu

IEEE Operations Center, Piscataway, NJ, 2005, 643 - 647

SF - ISL

ISL.Accelerator

Hahn-Meitner-Institut Berlin / ISL, Ionenstrahlabor. Homeyer, H. ; Röhrich, J. [Eds.]

Annual Report 2005

(HMI-B 609)

Hahn-Meitner-Institut, Berlin, 2006

ISL.PPT

Berg, A. ; Bayreder, C. ; Heufelder, J.

3D-Polymergeldosimetrie von Protonennadelstrahlen

In: Medizinische Physik 2006 : 37. Jahrestagung der Deutschen Gesellschaft für Medizinische Physik e.V. ; 20.-23. September 2006, Regensburg, eds. Bogner, L. [u.a.]
2006, 200 - 201

Heufelder, J. ; Cordini, D. ; Kluge, H. ; Simiantonakis, I. ; Stark, R. ; Weber, A. ; Homeyer, H.

Erfahrungen aus 8 Jahren Protonentherapie

In: Medizinische Physik 2006 : 37. Jahrestagung der Deutschen Gesellschaft für Medizinische Physik e.V. ; 20.-23. September 2006, Regensburg, eds. Bogner, L. [u.a.]
2006, 316 - 317

Höcht, S. ; Wachtlin, J. ; Bechrakis, N.E. ; Schäfer, C. ; Heufelder, J. ; Cordini, D. ; Kluge, H. ; Foerster, M. ; Hinkelbein, W.

Proton or photon irradiation for hemangiomas of the choroid? A retrospective comparison

International Journal of Radiation Oncology, Biology, Physics
66 (2006) 345 - 351

Marnitz, S. ; Cordini, D. ; Bendl, R. ; Lemke, A.J. ; Heufelder, J. ; Simiantonakis, I. ; Kluge, H. ; Bechrakis, N.E. ; Foerster, M.H. ; Hinkelbein, W.

Proton therapy of uveal melanomas: intercomparison of MRI-based and conventional treatment planning

Strahlentherapie und Onkologie
182 (2006) 395 - 399

ISL.User

Chromik, S. ; Huran, J. ; Strbík, V. ; Spanková, M. ; Vavra, I. ; Bohne, W. ; Röhrich, J. ; Strub, E. ; Kovac, P. ; Stancek, S.

Nanogranular MgB₂ thin films on SiC buffered Si substrates prepared by an in situ method

Superconductor Science and Technology
19 (2006) 577 - 580

Dais, C. ; Bolse, T. ; Bolse, W. ; Schubert-Bischoff, P. ; Lindner, J.K.N.

Swift heavy ion induced phase formation at NiO/Si interfaces

Nuclear Instruments and Methods in Physics Research B
245 (2006) 239 - 242

Denker, A. ; Bohne, W. ; Rauschenberg, J. ; Röhrich, J. ; Strub, E.

Materials analysis using fast ions

In: Proceedings / CAS CERN Accelerator School Small Accelerators : Zeegse, The Netherlands, 24 May - 2 June 2005, eds. Brandt, D.
CERN, Geneva, 2006, 417 - 432

Denker, A. ; Laurenze-Landsberg, C.

Gemäldeuntersuchungen mit hochenergetischen Protonen

In: Archäometrie und Denkmalpflege - Kurzberichte, eds. Hahn, O. [u.a.]
2006, 65 - 67

Denker, A. [Hrsg.] [u.a.]

COST Action G8: Non-destructive testing and analysis of museum objects

IRB Verlag, Stuttgart, 2006

Gupta, R.C. ; Kothari, D.C. ; Choudhari, R.J. ; Kumar, R. ; Sahoo, P.K. ; Lieb, K.P. ; Klaumünzer, S.

Optical properties in the Cu-fused silica system irradiated with swift heavy ions

Nuclear Instruments and Methods in Physics Research B
245 (2006) 219 - 221

Lieb, K.P. ; Zhang, K. ; Milinovic, V. ; Sahoo, P.K. ; Klaumünzer, S.

On the structure and magnetism of Ni/Si and Fe/Si bilayers irradiated with 350-MeV Au ions

Nuclear Instruments and Methods in Physics Research B
245 (2006) 121 - 125

Martinez, F.L. ; Toledano, M. ; San Andres, E. ; Martil, I. ; Gonzalez-Diaz, G. ; Bohne, W. ; Röhrich, J. ; Strub, E.

Compositional analysis of polycrystalline hafnium oxide thin films by heavy-ion elastic recoil detection analysis

Thin Solid Films

515 (2006) 695 - 699

Scherff, M. ; Drzymalla, R. ; Gösse, R. ; Fahrner, W.R. ; Ferrara, M. ; Neitzert, H. ; Opitz-Coutureau, J. ; Denker, A. ; Stangl, R. ; Limata, B. ; Gialanella, L. ; Romano, M.

Proton damage in amorphous silicon/crystalline silicon heterojunction solar cells

Journal of the Electrochemical Society

153 (2006) G1117 - G1121

Sonia, G. ; Richter, E. ; Lossy, R. ; Mai, M. ; Schmidt, J. ; Weyers, M. ; Tränkle, G. ; Denker, A. ; Opitz-Coutureau, J. ; Pensl, G. ; Brauer, I. ; Strunk, H.P.

High and low energy proton irradiation effects on AlGaN/GaN HFETs

Physica Status Solidi C

3 (2006) 2338 - 2341

Strub, E. ; Bohne, W. ; Röhrich, J.

Determination of the energy loss of various elements in metal foils with the TOF-ERDA setup at the ISL Berlin

Nuclear Instruments and Methods in Physics Research B

249 (2006) 62 - 64

Toledano-Luque, M. ; San Andrés, E. ; Olea, J. ; del Prado, A. ; Martil, I. ; Bohne, W. ; Röhrich, J. ; Strub, E. **Hafnium oxide thin films deposited by high pressure reactive sputtering in atmosphere formed with different Ar/O₂ ratios**

Materials Science in Semiconductor Processing

9 (2006) 1020 - 1024

Wolff, T. ; Denker, A. ; Hahn, O. ; Merchel, S. ; Radtke, M. ; Reinholz, U.

Röntgenanalytische Methoden im Vergleich

In: Archäometrie und Denkmalpflege - Kurzberichte, eds. Hahn, O. [u.a.]

2006, 22 - 24

SF - ISL

Addenda to 2005

ISL.User

Beutler, O. ; Kirsch, R. ; Prandolini, M.J. ; Brewer, W.D. ; Kapoor, J. ; Jensen, P.J. ; Frota-Pessôa, S. ; Riegel, D.

The exchange coupling of dilute Fe and Cr in AuCr alloys: Formation of local magnetic clusters

Europhysics Letters

70 (2005) 520 - 526

Schattat, B. ; Bolse, W. ; Elsanousi, A. ; Renz, T.

Interface mixing induced by swift heavy ions at metal-oxide/silicon interfaces

Nuclear Instruments and Methods in Physics Research B

230 (2005) 240 - 245

SF - BESSY**SF2.BESSY**

Birkholz, M. ; Genzel, Ch.

Residual stress analysis

In: Thin film analysis by X-Ray scattering, eds. Birkholz, M.
Wiley-VCH, Weinheim, 2006, 241 - 296

Denks, I.A. ; Klaus, M. ; Genzel, Ch.

Determination of real space residual stress distributions $s_{ij}(z)$ of surface treated materials with diffraction methods. Part II: Energy dispersive approach

Materials Science Forum
524-525 (2006) 37 - 42

Denks, I.A. ; Klaus, M. ; Genzel, Ch.

Residual stress depth scanning of thin films by means of white beam diffraction

In: BESSY Annual Report (2005)
2006, 489 - 491

Dudzik, E. ; Feyerherm, R. ; Diete, W. ; Signorato, R. ; Zilkens, C.

The new HMI beamline MAGS: an instrument for hard X-ray diffraction at BESSY

Journal of Synchrotron Radiation
13 (2006) 421 - 425

Genzel, Ch. ; Denks, I.A. ; Klaus, M.

The materials science beamline EDDI for energy-dispersive analysis of subsurface residual stress gradients

Materials Science Forum
524-525 (2006) 193 - 198

Kronast, F. ; Ovsyannikov, R. ; Vollmer, A. ; Dürr, H.A. ; Eberhardt, W. ; Imperia, P. ; Schmitz, D. ; Schott, G.M. ; Ruester, C. ; Gould, C. ; Schmidt, G. ; Brunner, K. ; Sawicki, M. ; Molenkamo, L.W.

Mn 3d electronic configurations in $(\text{Ga}_{1-x}\text{Mn}_x)\text{As}$ ferromagnetic semiconductors and their influence on magnetic ordering

Physical Review B
74 (2006) 235213/1 - 8

Rosenthal, D. ; Zizak, I. ; Darowski, N. ; Magkoev, T.T. ; Christmann, K.

The growth and structure of titanium dioxide films on a Re(10-10) surface: Rutile (011)-(2x1)

Surface Science
600 (2006) 2830 - 2840

Sass, B. ; Buschhorn, S. ; Felsch W. ; Schmitz, D. ; Imperia, P.

Thin layers of Fe, Co and Ni on V_2O_3 (1120) and V_2O_3 (0001): A comparison of the interfacial magnetic interactions

Journal of Magnetism and Magnetic Materials
303 (2006) 167 - 177

SF3.BESSY

Haibel, A. ; Rack, A. ; Banhart, J.

Why are metal foams stable?

Applied Physics Letters
89 (2006) 154102/1 - 3

Link, T. ; Zabler, S. ; Epishin, A. ; Haibel, A. ; Bansal, M. ; Thibault, X.

Synchrotron tomography of porosity in single-crystal nickel-base superalloys

Materials Science and Engineering A

425 (2006) 47 - 54

Tafforeau, P. ; Boistel, R. ; Boller, E. ; Bravin, A. ; Brunet, M. ; Chaimanee, Y. ; Cloetens, P. ; Feist, M. ; Hoszowska, J. ; Jaeger, J.J. ; Kay, R.F. ; Lazzari, V. ; Marivaux, L. ; Nel, A. ; Nemoz, C. ; Thibault, X. ; Vignaud, P. ; Zabler, S.

Applications of X-ray synchrotron microtomography for non-destructive 3D studies of paleontological specimens

APPLIED PHYSICS A

83 (2006) 195 - 202

Zabler, S. ; Haibel, A. ; Lohmüller, A. ; Banhart, J. ; Rueda, A. ; Rack, A. ; Riesemeier, H. ; Goebbels, J. ; Wolk, T. ; Weidemann, G.

Study of the evolution of semi-solid alloys by means of phase-sensitive synchrotron tomography

In: 9th European Conference on NDT : ECNDT Berlin 2006 ; September 25 - 29, 2006. [Ausg. auf CD] Berlin, 2006, 1 - 7

Zabler, S. ; Riesemeier, H. ; Fratzl, P. ; Zaslansky, P.

Fresnel-propagated imaging for the study of human tooth dentin by partially coherent x-ray tomography

Optics Express

14 (2006) 8584 - 8597

SF4.BESSY

Chen, S.H. ; Schumacher, G. ; Xu, Z.Y. ; Richter, M.

Changes in hardness and elasticity of a Ti₆Al₄V alloy under helium irradiation

Journal of Nuclear Materials

358 (2006) 26 - 34

Chen, W. ; Darowski, N. ; Zizak, I. ; Schumacher, G. ; Klingelhöffer, H. ; Neumann, W.

Lattice distortion in ?' precipitates of single crystal superalloy SC16 under creep deformation

Nuclear Instruments and Methods in Physics Research B

246 (2006) 201 - 205

SF - BESSY

Addenda to 2005

SF3.BESSY

Zabler, S. ; Cloetens, P. ; Guigay, J.-P. ; Baruchel, J. ; Schlenker, M.

Optimization of phase contrast imaging using hard x rays

Review of Scientific Instruments

76 (2005) 073705/1 - 7

SF1 - Methods and Instruments

SE1.Cells

Petter, K. ; Eyidi, D. ; Stöger-Pollach, M. ; Sieber, I. ; Schubert-Bischoff, P. ; Rau, B. ; Tham, A.T. ; Schattschneider, P. ; Gall, S. ; Lips, K. ; Fuhs, W.

Line defects in epitaxial silicon films grown at 560°C

Physica B

376-377 (2006) 117 - 121

SE3.Others

Schorr, S. ; Tovar, M. ; Stuesser, N. ; Sheptyakov, D. ; Geandier, G.
Where the atoms are: Cation disorder and anion displacement in $D^{\text{II}}X^{\text{VI}}\text{-A}^{\text{I}}\text{B}^{\text{III}}X^{\text{VI}}_2$ semiconductors
Physica B
385-386 (2006) 571 - 573

SF1.Dynamics

Bayrakci, S.P. ; Keller, T. ; Habicht, K. ; Keimer, B.
Spin-wave lifetimes throughout the Brillouin zone
Science
312 (2006) 1926 - 1929

Fehr, C. ; Goze-Bac, C. ; Anglaret, E. ; Benoit, C. ; Hasmy, A.
Orientational order and dynamics of a nematic liquid crystal in porous media
EUROPHYSICS LETTERS
73 (2006) 553 - 559

Jalarvo, N. ; Desmedt, A. ; Lechner, R.E. ; Mezei, F.
The dynamical properties of the aromatic hydrogen bond in $\text{NH}_4(\text{C}_6\text{H}_5)(4)\text{B}$ from quasielastic neutron scattering
JOURNAL OF CHEMICAL PHYSICS
125 (2006) 184513

Keller, T. ; Aynajian, P. ; Habicht, K. ; Boeri, L. ; Bose, S.K. ; Keimer, B.
Momentum-resolved electron-phonon interaction in lead determined by neutron resonance spin-echo spectroscopy
Physical Review Letters
96 (2006) 225501/1 - 4

Vorderwisch, P. ; Shapiro, S.M.
Phonon dispersion in the ferromagnetic shape memory alloy Ni_2MnGa studied by neutron spectroscopy
Materials Science and Engineering A
438-440 (2006) 450 - 453

SF1.Methods

Falus, P. ; Vorobiev, A. ; Krist, T.
Test of a two-dimensional neutron spin analyzer
Physica B
385-386 (2006) 1149 - 1151

Holzel, R. ; Bentley, P.M. ; Fouquet, P.
Instrument design and optimization using genetic algorithms
REVIEW OF SCIENTIFIC INSTRUMENTS
77 (2006) 105107

Lieutenant, K. ; Peters, J. ; Mezei, F.
Monte Carlo simulation of the new time-of-flight powder diffractometer EXED at the Hahn-Meitner-Institut
Journal of Neutron Research
14 (2006) 147 - 165

Mezei, F.
Multi-wavelength data collection strategies in inelastic neutron scattering
PHYSICA B
385-386 (2006) 995 - 999

Mezei, F.

Enhanced power data collection by multi-wavelength neutron scattering techniques

In: Proceedings of the 17th Meeting of the International Collaboration on Advanced Neutron Sources ICANS - XVII : April 24-29, 2005, Santa Fe, New Mexico, USA, eds. Russell, G.J. [u.a.]
2006, 1128 - 1133

Peters, J. ; Bleif, H.-J. ; Kali, G. ; Rosta, L. ; Mezei, F.

Performance of TOF powder diffractometers on reactor sources

Physica B
385-386 (2006) 1019 - 1021

Peters, J. ; Champion, J.D.M. ; Zsigmond, G. ; Bordallo, H.N. ; Mezei, F.

Using Fermi choppers to shape the neutron pulse

Nuclear Instruments and Methods in Physics Research A
557 (2006) 580 - 584

Teichert, A. ; Krist, T. ; Mezei, F.

Stress dependence in $\text{Fe}_{89}\text{Co}_{11}$ -Si multilayers on layer thicknesses

Physica B
385-386 (2006) 1262 - 1264

SF1.Spallation

Herbach, C.-M. ; Hilscher, D. ; Jahnke, U. ; Tishchenko, V.G. ; Galin, J. ; Letourneau, A. ; Peghaire, A. ; Filges, D. ; Goldenbaum, F. ; Pienkowski, L. ; Schröder, W.U. ; Toke, J.

Charged-particle evaporation and pre-equilibrium emission in 1.2-GeV proton-induced spallation reactions

Nuclear Physics A
765 (2006) 426 - 463

Herbach, C.-M. ; Hilscher, D. ; Jahnke, U. ; Tishchenko, V.G. ; Galin, J. ; Letourneau, A. ; Peghaire, A. ; Filges, D. ; Goldenbaum, F. ; Pienkowski, L. ; Schröder, W.U. ; Toke, J.

Systematic investigation of 1.2-GeV proton-induced spallation reactions on targets between Al and U

Nuclear Instruments and Methods in Physics Research A
562 (2006) 729 - 732

Lieutenant, K. ; Mezei, F.

Monte Carlo simulations of a powder diffractometer installed on a long pulse target station using wavelength frame multiplication

Journal of Neutron Research
14 (2006) 177 - 191

Mezei, F.

Accelerator requirements for next generation neutron sources

Nuclear Instruments and Methods in Physics Research A
562 (2006) 553 - 556

SF3.Nanostructures

Wiedenmann, A. ; Keiderling, U. ; Habicht, K. ; Russina, M. ; Gähler, R.

Dynamics of field-induced ordering in magnetic colloids studied by new time-resolved small-angle neutron-scattering techniques

Physical Review Letters
97 (2006) 057202/1 - 4

SF6.Others

Sosman, L.P. ; da Fonseca, R.J.M. ; Dias Tavares Jr., A. ; Nakaema, M.K.K. ; Bordallo H.N.

Photoluminescence and optical absorption of Cs₂NaScF₆:Cr³⁺

Journal of Fluorescence

16 (2006) 317 - 323

SF2 - Magnetism**SF2.Bulk magnetism**

Gabani, S. ; Andrejco, R. ; Flachbart, K. ; Paderno, Y. ; Pavlik, V. ; Priputen, P. ; Shitsevalova, N. ; Siemensmeyer, K.

Transport properties of HoB₁₂

In: Low temperature physics : 24th International Conference on ... LT24, Orlando, Florida, 10-17 August 2005, eds. Takano, Y. [u.a.]

American Institute of Physics, Melville, N.Y., 2006, 1253 - 1254

Prokes, K. ; Brück, E. ; Sechovsky, V.

Melting of the antiferromagnetic structure in UNiAl near T_N

Physica B

385-386 (2006) 369 - 371

Prokes, K. ; Manuel, P. ; Adroja, D.T. ; Kitazawa, H. ; Goto, T. ; Isikawa, Y.

Magnetic order in CePdAl single crystal: Effect of magnetic field

Physica B

385-386 (2006) 359 - 362

Reehuis, M. ; Ulrich, C. ; Prokes, K. ; Gozar, A. ; Blumberg, G. ; Komiya, S. ; Ando, Y. ; Pattison, P. ; Keimer, B.

Crystal structure and high-field magnetism of La₂CuO₄

PHYSICAL REVIEW B

73 (2006) 144513

Siemensmeyer, K. ; Flachbart, K. ; Gabani, S. ; Mat'as, S. ; Paderno, Y. ; Shitsevalova, N.

Magnetic structure of rare earth dodecaborides

Journal of Solid State Chemistry

179 (2006) 2748 - 2750

Sikolenko, V. ; Pomjakushina, E. ; Zimmermann, U. ; Gribanov, A.

μSR and neutron diffraction studies of U(Ni_xCu_{1-x})₂Si₂ magnetic structure

Physica B

374-375 (2006) 171 - 173

Stüber, N. ; Sofin, M. ; Bircher, R. ; Güdel, H.-U. ; Jansen, M.

Competing magnetic interactions in Na₁₀Co₄O₁₀ studied by neutron diffraction

Chemistry : A European Journal

12 (2006) 5452 - 5457

Wolska, E. ; Tovar, M. ; Andrzejewski, B. ; Nowicki, W. ; Darul, J. ; Piszora, P. ; Knapp, M.

Structural and magnetic properties of the iron substituted lithium-manganese spinel oxides

Solid State Sciences

8 (2006) 31 - 36

Yoshii, S. ; Andreev, A.V. ; Brück, E. ; Klaasse, J.C.P. ; Prokes, K. ; de Boer, F.R. ; Hagiwara, M. ; Kindo, K. ; Sechovsky, V.

Magnetization and specific heat of a UIrGe single crystal in high magnetic fields

Journal of Physics: Conference Series

51 (2006) 151 - 154

SF2.Novel Mat.

Aliouane, N. ; Argyriou, D.N. ; Strempfer, J. ; Zegkinoglou, I. ; Landsgesell, S. ; Zimmermann, M. v.

Field-induced linear magnetoelastic coupling in multiferroic TbMnO₃

Physical Review B

73 (2006) 020102/1 - 4

Feyerherm, R. ; Dudzik, E. ; Aliouane, N. ; Argyriou, D.N.

Commensurate Dy magnetic ordering associated with incommensurate lattice distortion in multiferroic DyMnO₃

Physical Review B

73 (2006) 180401/1 - 4

McLain, S.E. ; Dolgos, M.R. ; Tennant, D.A. ; Turner, J.F.C. ; Barnes, T. ; Proffen, Th. ; Sales, B.C. ; Bewley, R.I.

Magnetic behaviour of layered Ag(II) fluorides

Nature Materials

5 (2006) 561 - 566

Podlesnyak, A. ; Conder, K. ; Pomjakushina, E. ; Mirmelstein, A.

Layered cobalt perovskites: Current topics and future promises

In: Frontal semiconductor research, eds. Chang, O.T.

Nova Science Publishers, New York, 2006, 171 - 209

Sikolenko, V.V. ; Sazonov, A.P. ; Efimov, V.V. ; Efimova, E.A. ; Kriventsov, V.V. ; Kochubei, D.I. ; Zimmermann, U.

Phase separation in La_{1-x}Sr_xCoO₃ solid solutions with a perovskite structure

Crystallography Reports

51 (2006) S67 - S75

Sun, Z. ; Chuang, Y.-D. ; Fedorov, A.V. ; Douglas, J.F. ; Reznik, D. ; Weber, F. ; Aliouane, N. ; Argyriou, D.N. ; Zheng, H. ; Mitchell, J.F. ; Kimura, T. ; Tokura, Y. ; Revcolevschi, A. ; Dessau, D.S.

Quasiparticlelike peaks, kinks, and electron-phonon coupling at the (lpi,0) regions in the CMR oxide La_{2-2x}Sr_{1+2x}Mn₂O₇

Physical Review Letters

97 (2006) 056401/1 - 4

Tovar, M. ; Torabi, R. ; Welker, C. ; Fleischer, F.

Structural and magnetic properties of Cu-Ni-Cr spinel oxides

Physica B

385-386 (2006) 196 - 198

SF2.Others

Dante, S. ; Hauß, T. ; Dencher, N.A.

Cholesterol inhibits the insertion of the Alzheimer's peptide Aβ(25-35) in lipid bilayers

European Biophysics Journal

35 (2006) 523 - 531

Gibmeier, J. ; Götting, M. ; Zinn, W. ; Scholtes, B.

In-situ X-ray stress analysis for the highly textured Mg-base wrought alloy AZ31

Materials Science Forum

524-525 (2006) 931 - 936

Klaus, M. ; Denks, I.A. ; Genzel, Ch.

X-ray diffraction analysis of nonuniform residual stress fields s_{ii}(t) under difficult conditions

Materials Science Forum

524-525 (2006) 601 - 606

Lechner, R.E. ; Fitter, J. ; Dencher, N.A. ; Hauß, T.

Low-energy dynamics and biological function

Physica B

385-386 (2006) 835 - 837

Manns, Th. ; Gibmeier, J. ; Scholtes, B.

Determination of real space residual stress distributions $s_{ij}(z)$ of surface treated materials with diffraction methods. Part I: Angle-dispersive approach

Materials Science Forum

524-525 (2006) 31 - 36

Schorr, S. ; Wagner, G. ; Tovar, M. ; Sheptyakov, D.

Cation disorder and anion displacement in $D''X^{VI} - A^I B''' X^{VI}_2$ semiconductors

Physica Status Solidi C

3 (8) (2006) 2614 - 2617

Steiner, M. ; Tennant, D.A. ; Smeibidl, P.

New high field magnet for neutron scattering at Hahn-Meitner-Institute

Journal of Physics: Conference Series

51 (2006) 470 - 474

Többens, D.M.

Calculating the peak shape of axially focussing powder diffractometers

ZEITSCHRIFT FÜR KRISTALLOGRAPHIE

Suppl. 23 (2006) 255 - 260

SF2. Quantum Phenomena

Lumsden, M.D. ; Nagler, S.E. ; Sales, B.C. ; Tennant, D.A. ; McMorrow, D.F. ; Lee, S.H. ; Park, S.

Magnetic excitation spectrum of the square lattice $S=1/2$ Heisenberg antiferromagnet $K_2V_3O_8$

Physical Review B

74 (2006) 214424/1 - 14

Prokhnenco, O. ; Arnold, Z. ; Kuchin, A. ; Ritter, C. ; Isnard, O. ; Kamarad, J. ; Iwasieczko, W. ; Drulis, H.

Influence of lattice volume on magnetic states of $Ce_2Fe_{16}MnD_y$ compounds ($y=0,1,2,3$)

Journal of Applied Physics

100 (2006) 013903/1 - 9

Süllow, S. ; Wolter, A.U.B. ; Feyerherm, R. ; Rakoto, H. ; Broto, J.M. ; Glocke, S. ; Klümper, A. ; Honecker, A. ; Brenig, W.

Magnetization of staggered $S = 1/2$ antiferromagnetic Heisenberg chain systems

Journal of Physics: Conference Series

51 (2006) 183 - 186

Zvyagin, S.A. ; Wosnitza, J. ; Kolezhuk, A.K. ; Krzystek, J. ; Feyerherm, R.

Elementary excitations in $S = 1/2$ Heisenberg spin chains with alternating g-tensor and the

Dzyaloshinskii-Moriya interaction

Journal of Physics: Conference Series

51 (2006) 39 - 42

SF2. Thin films

Krappe, H.J.

Bayesian methods in the evaluation of scattering data

International Journal of Modern Physics E

15 (2006) 354 - 361

Rossner, H.H. ; Schmitz, D. ; Imperia, P. ; Krappe, H.J. ; Rehr, J.J.
Bayes-Turchin analysis of X-ray absorption data above the Fe L_{2,3}-edges
Physical Review B
74 (2006) 134107/1 - 12

SF2 - Magnetism

Addenda to 2005

SF2.Bulk magnetism

Flachbart, K. ; Gabani, S. ; Gloos, K. ; Meissner, M. ; Opel, M. ; Paderno, Y. ; Pavlik, V. ; Samuely, P. ; Schuberth, E. ; Shitsevalova, N. ; Siemensmeyer, K. ; Szabo, P.
Low temperature properties and superconductivity of LuB₁₂
Journal of Low Temperature Physics
140 (2005) 339 - 353

SF2.Others

Hauß, T. ; Dante, S. ; Haines, T.H. ; Dencher, N.A.
Localization of coenzyme Q₁₀ in the center of a deuterated lipid membrane by neutron diffraction
Biochimica et Biophysica Acta
1710 (2005) 57 - 62

SF3 - Materials

SF3.Light weight mat.

Amsterdam, E. ; Babcsán, N. ; De Hosson, J.T.M. ; Onck, P.R. ; Banhart, J.
Fracture behavior of metal foam made of recycled MMC by the melt route
In: Porous metals and metal foaming technology : MetFoam 2005 ; JIMIC-4 ; 4th International Conference on ... Kyoto, Japan, September 21 - 23, 2005, eds. Nakajima, H. [u.a.]
The Japan Institute of Metals, Kyoto, 2006, 589 - 592

Amsterdam, E. ; Babcsan, N. ; De Hosson, J.T.M. ; Onck, P.R. ; Banhart, J.
Fracture behavior of metal foam made of recycled MMC by the melt route
MATERIALS TRANSACTIONS
47 (2006) 2219 - 2222

Babcsan N. ; Garcia-Moreno F. ; Banhart J.
Role of oxidation during blowing of aluminium foams by external gas injection
In: Porous metals and metal foaming technology : MetFoam 2005 ; JIMIC-4 ; 4th International Conference on ... Kyoto, Japan, September 21 - 23, 2005, eds. Nakajima, H. [u.a.]
The Japan Institute of Metals, Kyoto, 2006, 261 - 266

Babcsan, N. ; Banhart, J.
Metal foams towards high-temperature colloid chemistry
In: Colloidal particles at liquid interfaces, eds. Binks, B.P. [u.a.]
Cambridge University Press, Cambridge, 2006, 445 - 499

Babcsan, N. ; Garcia-Moreno, F. ; Leitlmeier, D. ; Banhart, J.
Liquid-metal foams - feasible in-situ experiments under low gravity
Materials Science Forum
508 (2006) 275 - 280

Banhart, J.

Metal foams: the mystery of stabilisation

In: Porous metals and metal foaming technology : MetFoam 2005 ; JIMIC-4 ; 4th International Conference on ... Kyoto, Japan, September 21 - 23, 2005 , eds. Nakajima, H. [u.a.]
The Japan Institute of Metals, Kyoto, 2006, 75 - 86

Banhart, J.

Metal foams: Production and stability

Advanced Engineering Materials
8 (2006) 781 - 794

Banhart, J.

MetFoam 2005 in Kyoto (Japan), 21-23 September 2005

Metall
60 (1-2) (2006) 24

Duarte, I.M.A. ; Banhart, J. ; Ferreira, A.J.M. ; Santos, M.J.G.

Foaming around fastening elements

MATERIALS SCIENCE FORUM
514-516 (2006) 712 - 717

Garcia-Moreno, F. ; Babcsán, N. ; Banhart, F.

The role of the gas pressure on the foaming of metals following the pm-route

In: Porous metals and metal foaming technology : MetFoam 2005 ; JIMIC-4 ; 4th International Conference on ... Kyoto, Japan, September 21 - 23, 2005. Kyoto:, eds. Nakajima, H. [u.a.]
The Japan Institute of Metals, Kyoto, 2006, 129 - 132

Griesche, A. ; Garcia Moreno, F. ; Macht, M.-P. ; Frohberg, G.

Chemical diffusion experiments in AlNiCe-melts

Materials Science Forum
508 (2006) 567 - 572

Matijasevic, B. ; Banhart, J.

Improvement of aluminium foam technology by tailoring of blowing agent

Scripta Materialia
54 (2006) 503 - 508

Matijasevic, B. ; Görke, O. ; Schubert, H. ; Banhart, J.

Zirconium hydride - a possible blowing agent for making aluminium alloy foams

In: [Eds.] : Porous metals and metal foaming technology : MetFoam 2005 ; JIMIC-4 ; 4th International Conference on ... Kyoto, Japan, September 21 - 23, 2005 , eds. Nakajima, H. [u.a.]
The Japan Institute of Metals, Kyoto, 2006, 107 - 110

Matijasevic-Lux, B. ; Banhart, J. ; Fiechter, S. ; Görke, O. ; Wanderka, N.

Modification of titanium hydride for improved aluminium foam manufacture

Acta Materialia
54 (2006) 1887 - 1900

Shabestari, S.G. ; Wanderka, N. ; Seeliger, W. ; Banhart, J.

Optimisation of the strength of aluminium foam sandwich (AFS) panel by different heat treatments

Materials Science Forum
519-521 (2006) 1221 - 1226

Weise, J. ; Marchetto, O. ; Haesche, M. ; Garcia-Moreno, F. ; Banhart, J.

Influence of alloying additions on foaming behaviour of thixocast AISi11 precursor

In: Porous metals and metal foaming technology : MetFoam 2005 ; JIMIC-4 ; 4th International Conference on ... Kyoto, Japan, September 21 - 23, 2005, eds. Nakajima, H. [u.a.]
The Japan Institute of Metals, Kyoto, 2006, 123 - 128

SF3.Microstructure

Del Genovese, D. ; Mukherji, D. ; Rösler, J. ; Kindrachuk, V. ; Wanderka, N. ; Banhart, J.

Chemistry modifications of Inconel 706 for improved microstructure stability

In: Materials for Advanced Power Engineering 2006 : Proceedings of the 8th Liège Conference / Part 3, eds. Lecomte-Beckers, J. [u.a.]

Jülich : Forschungszentrum Jülich, 2006, Jülich : Forschungszentrum Jülich, 2006, 2006, 1619 - 1628

LaGrange, T. ; Abromeit, C. ; Gotthardt, R.

Microstructural modifications of Ni-Ti shape memory alloy thin films induced by electronic stopping of high-energy heavy ions

Materials Science and Engineering A

438-440 (2006) 521 - 526

LaGrange, T. ; Abromeit, C. ; Gotthardt, R.

Microstructural modifications of Ni-Ti shape memory alloy thin films induced by electronic stopping of high-energy heavy ions

MATERIALS SCIENCE AND ENGINEERING A

438 (2006) 521 - 526

Lazarev, N.P. ; Abromeit, C. ; Schäublin, R. ; Gotthardt, R.

Temperature-controlled martensitic phase transformations in a model NiAl alloy

Journal of Applied Physics 100, 063520 (2006)

100 (2006) 063520/1 - 10

Mechler, S. ; Abromeit, C. ; Wanderka, N. ; Macht, M.-P. ; Zumkley, T. ; Schumacher, G. ; Klaumünzer, S.

Phase transformation quasicrystalline-amorphous in Zr-Ti-Ni-Cu by swift heavy ions

Nuclear Instruments and Methods in Physics Research B

245 (2006) 133 - 136

Venkataraman, S. ; Loeser, W. ; Eckert, J. ; Gemming, T. ; Mickel, C. ; Schubert-Bischoff, P. ; Wanderka, N. ; Schultz, L. ; Sordelet, D.J.

Nanocrystal development in Cu47Ti33Zr11Ni8Si1 metallic glass powders

JOURNAL OF ALLOYS AND COMPOUNDS

415 (2006) 162 - 169

Wang, J. ; Wang, Y. ; Schaublin, R. ; Abromeit, C. ; Gotthardt, R.

The effect of point defects on the martensitic phase transformation

MATERIALS SCIENCE AND ENGINEERING A

438-440 (2006) 102 - 108

SF3.Nanostructures

Behrens, S. ; Bönnemann, H. ; Matoussevitch, N. ; Dinjus, E. ; Modrow, H. ; Palina, N. ; Frerichs, M. ; Kempfer, V. ; Maus-Friedrichs, W. ; Heinemann, A. ; Kammel, M. ; Wiedenmann, A. ; Pop, L. ; Odenbach, S. ; Uhlmann, E. ; Bayat, N. ; Hesselbach, J. ; Guldbakke, J.M.

Air-stable Co-, Fe-, and Fe/Co-nanoparticles and ferrofluids

Zeitschrift für Physikalische Chemie

220 (2006) 3 - 40

Bonini, M. ; Wiedemann, A. ; Baglioni, P.

Synthesis and characterization of magnetic nanoparticles coated with a uniform silica shell

MATERIALS SCIENCE AND ENGINEERING C

26 (2006) 745 - 750

Flores Renteria, A. ; Saruhan, B. ; Schulz, U. ; Raetzer-Scheibe, H.-J. ; Haug, J. ; Wiedenmann, A.

Effect of morphology on thermal conductivity of EB-PVD PYSZ TBCs

Surface and Coatings Technology

201 (2006) 2611 - 2620

Haug, J. ; Wiedenmann, A. ; Flores, A. ; Saruhan-Brings, B. ; Strunz, P.

Evolution of pore microstructure in thermal barrier coatings studied by SANS

Physica B

385-386 (2006) 617 - 619

Heinemann, A. ; Hoell, A. ; Wiedenmann, A. ; Popp, L.M.

Small-angle scattering of orientated magnetic structures and applications to magnetic colloids

Physica B

385-386 (2006) 461 - 464

Kammel, M. ; Wiedenmann, A. ; Heinemann, A. ; Bönnemann, H. ; Matoussevitch, N.

Oxide coating of Co-ferrofluids studied by polarised SANS

Physica B

385-386 (2006) 457 - 460

Keiderling, U. ; Wiedenmann, A. ; Haug, J.

Stroboscopic time-resolved SANS technique for dynamical studies of slow relaxation processes

Physica B

385-386 (2006) 1183 - 1186

Klokkenburg, M. ; Erné, B.H. ; Meeldijk, J.D. ; Wiedenmann, A. ; Petukhov, A.V. ; Dullens, R.P.A. ; Philipse, A.P.

In situ imaging of field-induced hexagonal columns in magnetite ferrofluids

Physical Review Letters

97 (2006) 185702-1 - 4

Saurel, D. ; Brûlet, A. ; Heinemann, A. ; Martin, C. ; Mersone, S. ; Simon, C.

Magnetic field dependence of the magnetic phase separation in $\text{Pr}_{1-x}\text{Ca}_x\text{MnO}_3$ manganites studied by small-angle neutron scattering

Physical Review B

73 (2006) 094438/1 - 9

Ulbricht, A. ; Bergner, F. ; Dewhurst, C.D. ; Heinemann, A.

Small-angle neutron scattering study of post-irradiation annealed neutron irradiated pressure vessel steels

Journal of Nuclear Materials

353 (2006) 27 - 34

Wiedenmann, A. ; Kammel, M. ; Heinemann, A. ; Keiderling, U.

Nanostructures and ordering phenomena in ferrofluids investigated using polarized small angle neutron scattering

Journal of Physics: Condensed Matter

18 (2006) S2713 - S2736

Wiedenmann, A. ; Keiderling, U. ; Habicht, K. ; Russina, M. ; Gähler, R.

Dynamics of field-induced ordering in magnetic colloids studied by new time-resolved small-angle neutron-scattering techniques

Physical Review Letters

97 (2006) 057202/1 - 4

Wiedenmann, A. ; Keiderling, U. ; May, R.P. ; Dewhurst, C.

Dynamics of field-induced ordering processes in ferrofluids studied by polarised small-angle neutron scattering

Physica B

385-386 (2006) 453 - 456

SF3 - Materials

Addenda to 2005

SF3.Light weight mat.

Garcia-Moreno, F. ; Banhart, J. ; Haesche, M. ; Vignodhar, K. ; Weise, J.

Investigation of the influence of blowing agent and alloy composition on the foaming behaviour of thixocast AlSi6Cu4 precursor material

In: Cellular metals for structural and functional applications : CELLMET 2005 ; proceedings of the International Symposium on ... held May 18 - 20, 2005, in Dresden, Germany, eds. Stephani, G. [u.a.] Fraunhofer-IRB-Verl., Stuttgart, 2005, 244 - 252

Helfen, L. ; Baumbach, T. ; Pernot, P. ; Cloetens, P. ; Stanzick, H. ; Schladitz, K. ; Banhart, J.

Investigation of pore initiation in metal foams by synchrotron-radiation tomography

Applied Physics Letters
86 (2005) 231907/1 - 3

Helwig, H.-M. ; Garcia-Moreno, F. ; Banhart, J.

Foaming kinetics of Al-Si-Cu alloys

In: Cellular metals for structural and functional applications : CELLMET 2005 ; proceedings of the International Symposium on ... held May 18 - 20, 2005, in Dresden, Germany, eds. Stephani, G. [u.a.] Fraunhofer-IRB-Verl., Stuttgart, 2005, 253 - 257

Matijasevic-Lux, B. ; Rack, A. ; Haibel, A. ; Banhart, J.

Influence of powder pre-treatments on metal foam pore structure

In: Cellular metals and polymers : CMaP ; proceedings of the Symposium on ... held October 12 - 14, 2004, in Fürth, Germany, eds. Singer, R.F. [u.a.] Trans Tech Publ., Uetikon-Zürich, 2005, 57 - 60

SF4 - Structure and Dynamics

SE2.Concepts

Gavrilov, S. ; Oja, I. ; Lim, B. ; Belaidi, A. ; Bohne, W. ; Strub, E. ; Röhrich, J. ; Lux-Steiner, M.-Ch. ; Dittrich, Th.

Charge selective contact on ultra-thin $\text{In(OH)}_x\text{S}_y/\text{Pb(OH)}_x\text{S}_y$ heterostructure prepared by SILAR

Physica Status Solidi A
203 (5) (2006) 1024 - 1029

SF3.Microstructure

LaGrange, T. ; Abromeit, C. ; Gotthardt, R.

Microstructural modifications of Ni-Ti shape memory alloy thin films induced by electronic stopping of high-energy heavy ions

Materials Science and Engineering A
438-440 (2006) 521 - 526

Mechler, S. ; Abromeit, C. ; Wanderka, N. ; Macht, M.-P. ; Zumkley, T. ; Schumacher, G. ; Klaumünzer, S.

Phase transformation quasicrystalline-amorphous in Zr-Ti-Ni-Cu by swift heavy ions

Nuclear Instruments and Methods in Physics Research B
245 (2006) 133 - 136

SF4.Dynamics

Deiwiks, J. ; Schiwietz, G. ; Bhattacharyya, S.R. ; Xiao, G. ; Hippler, R.

Evidence for enhanced desorption of hydrogen atoms from a Si(100) surface induced by slow highly-charged ions

Nuclear Instruments and Methods in Physics Research B
248 (2006) 253 - 258

Fadanelli, R.C. ; Grande, P.L. ; Behar, M. ; Dias, J.F. ; Czerski, K. ; Schiwietz, G.

Interplay between the Coulomb explosion and vicinage effects studied using H₂⁺ molecules under channeling conditions

Physical Review B
73 (2006) 245336/1 - 7

Hedler, A. ; Klaumünzer, S. ; Wesch, W.

Swift heavy ion irradiation of amorphous silicon

Nuclear Instruments and Methods in Physics Research B
242 (2006) 85 - 87

Hentz, A. ; Parkinson, G.S. ; Window, A.J. ; Quinn, P.D. ; Woodruff, D.P. ; Grande, P.L. ; Schiwietz, G. ; Bailey, P. ; Noakes, T.C.Q.

Inelastic energy loss in 100-keV H⁺ scattering from single atoms: Theory and experiment for K, Rb, and Cs

Physical Review B
74 (2006) 125408/1 - 8

Klaumünzer, S.

Modification of nanostructures by high-energy ion beams

Nuclear Instruments and Methods in Physics Research B
244 (2006) 1 - 7

Klaumünzer, S.

Thermal-spike models for ion track physics: A critical examination

Matematisk-Fysiske Meddelelser
52 (2006) 293 - 328

Mahnke, H.-E. ; Schattat, B. ; Schubert-Bischoff, P. ; Novakovic, N.

Ion-beam induced nanosized Ag metal clusters in glass

Nuclear Instruments and Methods in Physics Research B
245 (2006) 222 - 224

Milinovic, V. ; Lieb, K.P. ; Sahoo, P.K. ; Schaaf, P. ; Zhang, K. ; Klaumünzer, S. ; Weisheit, M.

Swift ion irradiations of ^{nat}Fe/⁵⁷Fe/Si trilayers

Applied Surface Science
252 (2006) 5339 - 5342

Schiwietz, G. ; Klaumünzer, S. ; Mahnke, H.-E. [Hrsg.]

22nd International Conference on Atomic Collisions in Solids : ICACS 2006, Berlin Germany, 2006.

Book of Abstracts

Eigendruck, Berlin, 2006

Szenes, G. ; Fink, D. ; Klaumünzer, S. ; Paszti, F. ; Peter, A.

Ion-induced tracks in Bi₄Ge₃O₁₂ and Bi₁₂GeO₂₀ crystals

Nuclear Instruments and Methods in Physics Research B (2006)
245 (2006) 243 - 245

Wesch, W. ; Kamarou, A. ; Wendler, E. ; Klaumünzer, S.

593 Mev Au irradiation of InP, GaP, GaAs and AlAs

Nuclear Instruments and Methods in Physics Research B
242 (2006) 363 - 366

Zhang, K. ; Lieb, K.P. ; Milinovic, V. ; Uhrmacher, M. ; Klaumünzer, S.

Interface mixing and magnetism in Ni/Si bilayers irradiated with swift and low-energy heavy ions

Nuclear Instruments and Methods in Physics Research B

249 (2006) 167 - 171

SF4.Others

Rethfeld, Ch. ; Fuchs, H. ; Gardey, K.-U.

Dose distributions of a proton beam for eye tumor therapy: Hybrid pencil-beam ray-tracing calculations

Medical Physics

33 (2006) 782 - 791

SF4.Structures

Bollmann, J. ; Leisegang, T. ; Meyer, D.C. ; Weber, J. ; Mahnke, H.-E.

Local structure of gold impurities in silicon determined by EXAFS

Physica B

376-377 (2006) 57 - 60

Fink, D. ; Rojas-Chapana, J. ; Petrov, A. ; Tributsch, H. ; Friedrich, D. ; Küppers, U. ; Wilhelm, M. ; Apel, P.Yu. ; Zrineh, A.

The "artificial ostrich eggshell" project: Sterilizing polymer foils for food industry and medicine

Solar Energy Materials and Solar Cells

90 (2006) 1458 - 1470

Prandolini, M.J.

Magnetic nanostructures: radioactive probes and recent developments

Reports on Progress in Physics

69 (2006) 1235 - 1324

Umicevic, A. ; Mahnke, H.-E. ; Cekic, B. ; Grbovic, J. ; Koteski, V. ; Belosevic-Cavor, J.

SEM and XRD characterization of Ni-Hf alloys at low Hf concentration

Materials Science Forum

518 (2006) 325 - 330

SF4 - Structure and Dynamics

Addenda to 2005

SF4.Structures

Bollmann, J. ; Knack, S. ; Weber, J. ; Koteski, V. ; Mahnke, H.-E. ; Welter, E.

Selective detection of deep level centers by X-ray absorption fine structure questioned

Physica Scripta

T115 (2005) 188 - 190

Manzhur, Y. ; Prandolini, M.J. ; Potzger, K. ; Weber, A. ; Zeitz, W.-D. ; Bertschat, H.H. ; Dietrich, M.

Surface and interface magnetism using radioactive probes

Hyperfine Interactions

160 (2005) 3 - 15

SF5 - Theory**SF5.Biosystems**

Bausch, A.R. ; Kroy, K.

A bottom-up approach to cell mechanics

Nature Physics

2 (2006) 231 - 238

Claessens, M.M.A.E. ; Tharmann, R. ; Kroy, K. ; Bausch, A.R.

Microstructure and viscoelasticity of confined semiflexible polymer networks

Nature Physics

2 (2006) 186 - 189

Gholami, A. ; Wilhelm, J. ; Frey, E.

Entropic forces generated by grafted semiflexible polymers

Physical Review E

74 (2006) 041803/1 - 21

Kroy, K.

Elasticity, dynamics and relaxation in biopolymer networks

Current Opinion in Colloid and Interface Science

11 (2006) 56 - 64

Pierobon, P. ; Frey, E. ; Franosch, T.

Driven lattice gas of dimers coupled to a bulk reservoir

Physical Review E

74 (2006) 031920/1 - 13

Straube, R. ; Flockerzi, D. ; Hauser, M.J.B.

Sub-Hopf/fold-cycle bursting and its relation to (quasi-)periodic oscillations

Journal of Physics: Conference Series

55 (2006) 214 - 231

Thul, R. ; Falcke, M.

Frequency of elemental events of intracellular Ca²⁺ dynamics

Physical Review E

73 (2006) 061923/1 - 14

SF5.Hard Matter

Fröbrich, P. ; Kuntz, P.J.

Many-body Green's function theory of Heisenberg films

Physics Reports

432 (2006) 223 - 304

Fröbrich, P. ; Kuntz, P.J.

The magnetic reorientation transition in thin ferromagnetic films treated by many-body Green's function theory

Journal of Physics: Conference Series

35 (2006) 157 - 162

Gross, D.H.E.

Nuclear multifragmentation, its relation to general physics. A rich test ground of the fundamentals of statistical mechanics

The European Physical Journal A

30 (2006) 293 - 302

Kratzer, P. ; Liu, Q.K.K. ; Accosta-Diaz, P. ; Manzano, C. ; Costantini, G. ; Songmuang, R. ; Rastelli, A. ; Schmidt, O.G. ; Kern, K.

Shape transition during epitaxial growth of InAs quantum dots on GaAs(001): Theory and experiment
Physical Review B 37, 205347 (2006)

73 (2006) 205347/1 - 8

Lipperheide, R. ; Wille, U.

Theory of spin-polarized transport in ferromagnet-semiconductor structures: Unified description of ballistic and diffusive transport

Materials Science and Engineering B
126 (2006) 245 - 249

Sheehan, D.P. ; Gross, D.H.E.

Extensivity and the thermodynamic limit: Why size really does matter

Physica A
370 (2006) 461 - 482

SF5.Others

Gross, D.H.E.

Reconciliation of statistical mechanics and astro-physical statistics: The errors of conventional canonical thermostatics

Comptes Rendus Physique
7 (2006) 311 - 317

SF5.Soft Matter

Heussinger, C. ; Frey, E.

Stiff polymers, foams, and fiber networks

Physical Review Letters
96 (2006) 017802/1 - 4

Höfling, F. ; Franosch, T. ; Frey, E.

Localization transition of the three-dimensional Lorentz model and continuum percolation

Physical Review Letters
96 (2006) 165901/1 - 4

SF5 - Theory

Addenda to 2005

SF5.Soft Matter

Kroy K. ; Fischer S. ; Obermayer B.

The shape of barchan dunes

Journal of Physics: Condensed Matter
17 (2005) S1229 - S1235

SF6 - Trace Elements

SF6.Analysis

Bertelsmann, H. ; Behne, D. ; Kyriakopoulos, A.

Investigation on the biological role of the selenoprotein sperm nuclei glutathione peroxidase during spermiogenesis

In: Macro and trace elements = Mengen- und Spurenelemente : 23. Workshop, September, 27th 2006. Jena Schubert, Leipzig, 2006, 549 - 554

Bertelsmann, H. ; Sieme, H. ; Bollwein, H. ; Behne, D. ; Kyriakopoulos, A.

Zinc and iron in equine semen and semen fractions

In: Metalloproteins and Metalloidproteins ; Proceedings of the 4th Fall Conference on ... ; HMI, Berlin, Germany, November 24 and 25, 2005 : Analysis, Function, Clinical Trials., eds. Kyriakopoulos, A. [u.a.] Utz, München, 2006, 127 - 133

Bukalis, K. ; Wolf, C. ; Alber D. ; Behne, D. ; Kyriakopoulos, A.

Combination of biochemical and analytical methods in the studies on trace elements and trace-element-containing proteins in the lung and trachea of the rat

In: Metalloproteins and Metalloidproteins ; Proceedings of the 4th Fall Conference on ... ; HMI, Berlin, Germany, November 24 and 25, 2005 : Analysis, Function, Clinical Trials, eds. Kyriakopoulos, A. [u.a.] Utz, München, 2006, 44 - 56

Grbavac, I. ; Wolf, C. ; Kühbacher, M. ; Behne, D. ; Kyriakopoulos, A.

Distribution of manganese and selenium in the cytosoles and sections of the rat prostate

In: Macro and trace elements = Mengen- und Spurenelemente : 23. Workshop, September, 27th 2006. Jena Leipzig, Leipzig, 2006, 387 - 391

Kühbacher, M. ; Falkenberg, G. ; Kyriakopoulos, A. ; Behne, D.

Hamster, Ratte, Maus und Biene - verschiedene Tiermodelle für die Spurenelementforschung an Synchrotronstrahlungseinrichtungen

In: Experimentelle Modelle der Spurenelementforschung, eds. Windisch, W. [u.a.] Utz, München, 2006, 114 - 123

Kühbacher, M. ; Falkenberg, G. ; Schade, U. ; Fischer, J. ; Donath, T. ; Beckmann, F. ; Grünwald, B. ; Behne, D. ; Kyriakopoulos, A.

Selenomics and metalloproteomics using synchrotron radiation - frequently asked questions - different animal models, different methods, different answers

In: Metalloproteins and Metalloidproteins ; Proceedings of the 4th Fall Conference on ... ; HMI, Berlin, Germany, November 24 and 25, 2005 : Analysis, Function, Clinical Trials, eds. Kyriakopoulos, A. [u.a.] Utz, München, 2006, 11 - 17

Plotnikov A. ; Bertelsmann H. ; Kyriakopoulos A.

Scanning laser ablation inductively coupled plasma mass spectrometry of proteins after 1D-separation by gel electrophoresis and subsequent western blotting: theoretical basics, optimization and practical applications to the analysis of Se-containing proteins

In: Metalloproteins and Metalloidproteins ; Proceedings of the 4th Fall Conference on ... ; HMI, Berlin, Germany, November 24 and 25, 2005 : Analysis, Function, Clinical Trials, eds. Kyriakopoulos, A. [u.a.] Utz, München, 2006, 159 - 167

Richter, A. ; Pohl, T. ; Wolf, C. ; Plotnikov, A. ; Grbavac, I. ; Behne, D. ; Kyriakopoulos, A.

Selenium in the cardiovascular system of the rat

In: Metalloproteins and Metalloidproteins ; Proceedings of the 4th Fall Conference on ... ; HMI, Berlin, Germany, November 24 and 25, 2005 : Analysis, Function, Clinical Trials, eds. Kyriakopoulos, A. [u.a.] Utz, München, 2006, 169 - 174

Wolf, C. ; Bukalis, K. ; Kyriakopoulos, A.

Vergleich proteingebundener Spurenelemente in Zellflüssigkeiten von Gewebeproben und von in vitro angewachsenen Zelllinien

In: Experimentelle Modelle der Spurenelementforschung, eds. Windisch, W. [u.a.]
Utz, München, 2006, 204 - 209

Wolf, C. ; Bukalis, K. ; Kyriakopoulos, A.

Vergleich proteingebundener Spurenelemente in Zellflüssigkeiten von Gewebeproben und von in vitro angewachsenen Zelllinien

In: Experimentelle Modelle der Spurenelementforschung, eds. Windisch, W. [u.a.]
Utz, München, 2006, 204 - 209

SF6.Others

Bordallo, H.N. ; Aldridge, L.P. ; Desmedt, A.

Water dynamics in hardened ordinary Portland cement paste or concrete: from quasielastic neutron scattering

Journal of Physical Chemistry B
110 (2006) 17966 - 17976

Sosman, L.P. ; da Fonseca, R.J.M. ; Dias Tavares Jr., A. ; Nakaema, M.K.K. ; Bordallo H.N.

Photoluminescence and optical absorption of Cs₂NaScF₆:Cr³⁺

Journal of Fluorescence
16 (2006) 317 - 323

SF6.Proteins

Behne, D. ; Kyriakopoulos, A.

Selenoproteins

In: Encyclopedic Reference of Genomics and Proteomics in Molecular Medicine, eds. Ganter, D. ; Ruckpaul, K.
Springer, Berlin, 2006, 1731 - 1734

Behne, D. ; Kyriakopoulos, A.

Metals and metalloids as binding partners of proteins

In: Metalloproteins and Metalloidproteins ; Proceedings of the 4th Fall Conference on ... ; HMI, Berlin, Germany, November 24 and 25, 2005 : Analysis, Function, Clinical Trials. München, eds. Kyriakopoulos, A. [u.a.]
Utz, München, 2006, 1 - 7

Bertelsmann, H. ; Arthur, J.R. ; Kyriakopoulos, A. ; Hammadeh, M. ; Behne, D.

Untersuchung der Spurenelemente Selen und Zink und ihre Bedeutung für das männliche Reproduktionssystem durch vergleichende Studien in verschiedenen Tierspezies

In: Experimentelle Modelle der Spurenelementforschung, eds. Windisch, W. [u.a.]
Utz, München, 2006, 215 - 221

Dalla Puppa, L. ; Savaskan, N.E. ; Bräuer, A.U. ; Behne, D. ; Kyriakopoulos, A.

Effect of selenium on hydrogen peroxide-induced apoptosis

In: Metalloproteins and Metalloidproteins ; Proceedings of the 4th Fall Conference on ... ; HMI, Berlin, Germany, November 24 and 25, 2005 : Analysis, Function, Clinical Trials, eds. Kyriakopoulos, A. [u.a.]
Utz, München, 2006, 134 - 138

Grbavac, I. ; Wenda, N. ; Wolf, C. ; Kühbacher, M. ; Alber, D. ; Behne, D. ; Kyriakopoulos, A.

Distribution of metals- and metalloids and related proteins in the prostate

In: Metalloproteins and Metalloidproteins ; Proceedings of the 4th Fall Conference on ... ; HMI, Berlin, Germany, November 24 and 25, 2005 : Analysis, Function, Clinical Trials
Utz, München, 2006, 139 - 147

Kyriakopoulos, A. ; Grbavac, I. ; Wolf, C. ; Plotnikov, A. ; Kühbacher, M. ; Graebert, A. ; Behne, D.

Isolation and characterization of a copper-binding protein

In: Metalloproteins and Metalloidproteins ; Proceedings of the 4th Fall Conference on ... ; HMI, Berlin, Germany, November 24 and 25, 2005 : Analysis, Function, Clinical Trials, eds. Kyriakopoulos, A. [u.a.] Utz, München, 2006, 148 - 152

Kyriakopoulos, A. ; Michalke, B. ; Graebert, A. ; Behne, D. [Hrsg.]

Metalloproteins and metalloidproteins : analysis, function, clinical trials : Fall Conference on ... ; 4 ; HMI - Berlin - November 24 and 25, 2005

Utz, München, 2006

Richter, A. ; Wolf, C. ; Grbavac, I. ; Plotnikov, A. ; Alber, D. ; Kühbacher, M. ; Behne, D. ; Kyriakopoulos, A.

Proteinexpression in Geweben des kardiovaskulären Systems des Tiermodells Ratte

In: Experimentelle Modelle der Spurenelementforschung, eds. Windisch, W. [u.a.] Utz, München, 2006, 190 - 195

Wenda, N. ; Grbavac, I. ; Wolf, C. ; Alber, D. ; Bukalis, G. ; Behne, D. ; Kyriakopoulos, A.

Einfluss auf die Expression von Ratten-Prostataproteinen unter Berücksichtigung des Selenmangels

In: Experimentelle Modelle der Spurenelementforschung, eds. Windisch, W. [u.a.] Utz, München, 2006, 185 - 189

Wenda, N. ; Grbavac, I. ; Wolf, C. ; Plotnikov, A. ; Kühbacher, M. ; Behne, D.

Prostate and the essential trace element selenium

In: Metalloproteins and Metalloidproteins ; Proceedings of the 4th Fall Conference on ... ; HMI, Berlin, Germany, November 24 and 25, 2005 : Analysis, Function, Clinical Trials, eds. Kyriakopoulos, A. [u.a.] Utz, München, 2006, 175 - 180

Wolf, C. ; Schweizer, U. ; Bukalis, K. ; Behne, D.

Investigation of metallo- and metalloid proteins by element specific detection methods

In: Metalloproteins and Metalloidproteins ; Proceedings of the 4th Fall Conference on ... ; HMI, Berlin, Germany, November 24 and 25, 2005 : Analysis, Function, Clinical Trials, eds. Kyriakopoulos, A. [u.a.] Utz, München, 2006, 181 - 188

SF7 - Measurement instrumentation

SF7.Detector

Brogna, A.S. ; Buzzetti, S. ; Dabrowski, W. ; Fiutowski, T. ; Gebauer, B. ; Klein, M. ; Schmidt, C.J. ; Soltveit, H.K. ; Szczygiel, R. ; Trunk, U.

N-XYTER, a CMOS read-out ASIC for high resolution time and amplitude measurements on high rate multi-channel counting mode neutron detectors

Nuclear Instruments and Methods in Physics Research A
568 (2006) 301 - 308

SF7.Others

Aoyama, S. ; Itagaki, N. ; Oi, M.

Systematic analyses of the t+t clustering effect in He isotopes

Physical Review C
74 (2006) 017307/1 - 4

Avrigeanu, M. ; von Oertzen, W. ; Avrigeanu, V.

On temperature dependence of the optical potential for alpha-particles at low energies

Nuclear Physics A
764 (2006) 246 - 260

Itagaki, N. ; Masui, H. ; Ito, M. ; Aoyama, S. ; Ikeda, K.

Simplified method to include the tensor contribution in a-cluster model

Physical Review C

73 (2006) 034310/1 - 7

Wheldon, C. ; Valiente-Dobón, J.J. ; Regan, P.H. ; Pearson, C.J. ; Wu, C.Y. ; Smith, J.F. ; Macchiavelli, A.O. ; Cline, D. ; Chakravarthy, R.S. ; Chapman, R. ; Cromaz, M. ; Fallon, P. ; Freeman, S.J. ; Gelletly, W. ; Görzen, A. ; Hayes, A.B. ; Hua, H. ; Langdown, S.D. ; Lee, I.Y. ; Liang, X. ; Podolyák, Zs. ; Sletten, G. ; Teng, R. ; Ward, D. ; Warner, D.D. ; Yamamoto, A.D.

Observation of an isomeric state in ^{197}Au

Physical Review C

74 (2006) 027303/1 - 4

von Oertzen, W. ; Freer, M. ; Kanada-En'yo, Y.

Nuclear clusters and nuclear molecules

Physics Reports

432 (2006) 43 - 113

SF7.Q3D

Avrigeanu, M. ; Roman, F.L. ; Avrigeanu, V. ; von Oertzen, W.

On the α -particle semi-mircoscopic optical potential at low energies

Proceeding of Science

(2006)

Blazevic, A. ; Bohlen, H.G. ; von Oertzen, W. ; Balashov, V.V. ; Stysin, A.V.

Charge-state resolved energy spectra of swift ^{22}Ne ions passing through thin carbon foils

Nuclear Instruments and Methods in Physics Research B

245 (2006) 41 - 43

Bohlen, H.G.

Das beste Molekül der Kernphysik

Physik Journal

5 (3) (2006) 20 - 22

Itagaki, N. ; von Oertzen, W. ; Okabe, S.

Linear-chain structure of three α clusters in ^{13}C

Physical Review C

74 (2006) 067304/1 - 4

Kokalova, Tz. ; Itagaki, N. ; von Oertzen, W. ; Wheldon, C.

Signatures for multi-alpha-condensed states

Physical Review Letters

96 (2006) 192502/1 - 4

von Oertzen, W.

Dynamics of α -clusters in $N=Z$ nuclei

The European Physical Journal A

29 (2006) 133 - 139

SFN1 - Magnetism and Superconductivity of Quantum Materials

Addenda to 2005

SF.N1

Lake, B.

Quantum magnets show their hand

Nature Physics

1 (2005) 143 - 144

SE - Solar Energy Research

SE1 - Silicon photovoltaics

SE1.Cells

Boehme, C. ; Lips, K.

The investigation of charge carrier recombination and hopping transport with pulsed electrically detected magnetic resonance techniques

In: Charge transport in disordered solids with applications in electronics, eds. Baranovski, S. Wiley, Hoboken, NJ, 2006, 179 - 219

Boehme, C. ; Lips, K.

The ultra-sensitive electrical detection of spin Rabi oscillation at paramagnetic defects

Physica B
376-377 (2006) 930 - 935

Dogan, P. ; Gorka, B. ; Scheller, L. ; Sieber, I. ; Fenske, F. ; Gall, S.

Low temperature epitaxy of silicon using electron beam evaporation

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006 , eds. Poortman, J. [u.a.]
WIP Renewable Energies, München, 2006, 1060 - 1063

Ekanayake, G. ; Quinn, T. ; Reehal, H. ; Rau, B. ; Gall, S.

Large-grained polycrystalline silicon films on glass by epitaxial thickening of seed layers prepared by aluminium induced crystallisation

In: [Eds.] : Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006, eds. Poortman, J. [u.a.]
WIP Renewable Energies, München, 2006, 945 - 948

Fuhs, W.

Hydrogenated amorphous silicon - material properties and device applications

In: Charge transport in disordered solids with applications in electronics, eds. Baranovski, S. Wiley, Chichester, 2006, 97 - 147

Gall, S. ; Berghold, J. ; Conrad, E. ; Dogan, P. ; Fenske, F. ; Gorka, B. ; Lips, K. ; Muske, M. ; Petter, K. ; Rau, B. ; Schneider, J. ; Sieber, I.

Large-grained polycrystalline silicon on glass for thin-film solar cells

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006 , eds. Poortman, J. [u.a.]
WIP Renewable Energies, München, 2006, 1091 - 1094

Gall, S. ; Schneider, J. ; Klein, J. ; Hübener, K. ; Muske, M. ; Rau, B. ; Conrad, E. ; Sieber, I. ; Petter, K. ; Lips, K. ; Stöger-Pollach, M. ; Schattschneider, P. ; Fuhs, W.

Large-grained polycrystalline silicon on glass for thin-film solar cells

Thin Solid Films
511 - 512 (2006) 7 - 14

Nickel, N.H.

Light-induced neutralization of hydrogen shallow donors in zinc oxide

Physica Status Solidi B
243 (2006) R51 - R53

Nickel, N.H.

Hydrogen migration in single crystal and polycrystalline zinc oxide

Physical Review B 73 (2006) 195204-1 bis 9
73 (2006) 195204/1 - 9

Nickel, N.H. ; Brendel, K.

Erratum: Hydrogen density-of-states distribution in zinc oxide [Phys. Rev. B 68, 193303 (2003)]
Physical Review B
74 (2006) 089902(E)

Nickel, N.H. ; Weizman, M. ; Sieber, I. ; Yan, B.

Influence of compositional and structural changes on hydrogen bonding in silicon and silicon-germanium alloys
Journal of Non-Crystalline Solids
352 (2006) 1037 - 1040

Petter, K. ; Eyidi, D. ; Stöger-Pollach, M. ; Sieber, I. ; Schubert-Bischoff, P. ; Rau, B. ; Tham, A.T. ; Schattschneider, P. ; Gall, S. ; Lips, K. ; Fuhs, W.

Line defects in epitaxial silicon films grown at 560°C
Physica B
376-377 (2006) 117 - 121

Rajevac, V. ; Boehme, C. ; Michel, C. ; Gliesche, A. ; Lips, K. ; Baranovskii, S.D. ; Thomas, P.

Transport and recombination through weakly coupled localized spin pairs in semiconductors during coherent spin excitation

Physical Review B
74 (2006) 245206/1 - 5

Rau, B. ; Conrad, E. ; Gall, S.

Influence of post-deposition treatments of absorber layers on poly-Si thin-film solar cells on glass grown by ECRCVD

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006 , eds. Poortman, J. [u.a.]
WIP Renewable Energies, München, 2006, 1418 - 1421

Rau, B. ; Petter, K. ; Sieber, I. ; Stöger-Pollach, M. ; Eyidi, D. ; Schattschneider, P. ; Gall, S. ; Lips, K. ; Fuhs, W.

Extended defects in Si films epitaxially grown by low-temperature ECRCVD

Journal of Crystal Growth
287 (2006) 433 - 437

Rau, B. ; Schneider, J. ; Conrad, E. ; Gall, S.

Influence of defect post-deposition treatments on poly-Si thin-film solar cells on glass grown by ECRCVD

In: Amorphous and Polycrystalline Thin-Film Silicon Science and Technology - 2006, eds. Atwater, H.A. [u.a.]
Materials Research Society, Warrendale, Pa., 2006, 0910-A25-03

Repmann, T. ; Wieder, S. ; Klein, S. ; Müller, J. ; Kilper, T. ; Stiebig, H. ; Rech, B.

Production equipment for amorphous and microcrystalline silicon solar cell manufacturing

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006 , eds. Poortman, J. [u.a.]
WIP Renewable Energies, München, 2006, 1590 - 1593

Saleh, R. ; Nickel, N.H.

Boron doped polycrystalline silicon produced by stepp-by-step XeCl excimer laser crystallization

In: Amorphous and Polycrystalline Thin-Film Silicon Science and Technology - 2006., eds. Atwater, H.A.
[u.a.]
Materials Research Society, Warrendale, Pa., 2006, 0910-A23-02

Saleh, R. ; Nickel, N.H.

Structural properties of phosphorous-doped polycrystalline silicon

Solar Energy Materials and Solar Cells
90 (2006) 3456 - 3463

Saleh, R. ; Nickel, N.H. ; Maydell, K.v.

Laser crystallization of compensated hydrogenated amorphous silicon thin films

Journal of Non-Crystalline Solids

352 (2006) 1003 - 1007

Sarikov, A. ; Schneider, J. ; Klein, J. ; Muske, M. ; Gall, S.

Theoretical study of the initial stage of the aluminium-induced layer-exchange process

Journal of Crystal Growth

287 (2006) 442 - 445

Sarikov, A. ; Schneider, J. ; Muske, M. ; Gall, S. ; Fuhs, W.

Theoretical study of the kinetics of grain nucleation in the aluminium-induced layer-exchange process

Journal of Non-Crystalline Solids

352 (2006) 980 - 983

Schneider, J. ; Sarikov, A. ; Klein, J. ; Muske, M. ; Sieber, I. ; Quinn, T. ; Reehal, H.S. ; Gall, S. ; Fuhs, W.
A simple model explaining the preferential (100) orientation of silicon thin films made by aluminum-induced layer exchange

Journal of Crystal Growth

287 (2006) 423 - 427

Schneider, J. ; Schneider, A. ; Sarikov, A. ; Klein, J. ; Muske, M. ; Gall, S. ; Fuhs, W.

Aluminum-induced crystallization: Nucleation and growth process

Journal of Non-Crystalline Solids

352 (2006) 972 - 975

Stangl, R. ; Kriegel, M. ; Schmidt, M.

AFORS-HET, Version 2.2, a numerical computer simulation program for simulation of heterojunction solar cells and measurements

In: 2006 IEEE 4th World Conference on Photovoltaic Energy Conversion : Waikoloa, Hawaii, May 7-12, 2006
: WCPEC-4

IEEE, Piscataway, NJ, 2006, 1350 - 1353

Stegner, A.R. ; Boehme, C. ; Huebl, H. ; Stutzmann, M. ; Lips, K. ; Brandt, M.S.

Electrical detection of coherent ^{31}P spin quantum states

Nature Physics

2 (2006) 835 - 838

Weizman, M. ; Nickel, N.H. ; Sieber, I. ; Yan, B.

Successive segregation in laser-crystallized poly-SiGe thin films

Journal of Non-Crystalline Solids

352 (2006) 1259 - 1262

SE1.Hetero

Angermann, H. ; J. Rappich, J. ; Maydell, K.v. ; Conrad, E. ; Sieber, I. ; Schaffarzik, D. ; Schmidt, M.

Wet-chemical passivation of interface defects in a a-Si-H/c-Si heterojunction solar cells with randomly distributed pyramids

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006 , eds. Poortman, J. [u.a.]

WIP Renewable Energies, München, 2006, 895 - 898

Angermann, H. ; Rappich, J.

Surface states and recombination loss on wet-chemically passivated Si studied by Surface Photovoltage (SPV) and Photoluminescence (PL)

In: 8th International Symposium on Ultra Clean Processing of Silicon Surfaces - UCPSS 2006 : September 17-20, 2006, Antwerp, Belgium / Abstract Book
2006, 42 - 43

Angermann, H. ; Rappich, J. ; Sieber, I. ; Hübener, K. ; Polte, J. ; J. Hauschild, J.

Wet-chemical passivation of atomically flat and structured silicon substrates

In: 5th International Conference on Solid State Surfaces and Interfaces, SSSI 2006 : November 19-24, 2006, Smolenice Castle, Slovak Republic / Extended Abstract Book
2006, 13 - 16

Boehme, C. ; Behrends, J. ; Maydell, K.v. ; Schmidt, M. ; Lips, K.

Investigation of hopping transport in n-a-Si:H/c-Si solar cells with pulsed electrically detected magnetic resonance

Journal of Non-Crystalline Solids
352 (2006) 1113 - 1116

Conrad, E. ; Korte, L. ; Meydell, K. v. ; Angermann, H. ; Schubert, C. ; Stangl, R. ; Schmidt, M.

Development and optimization of a-Si:H/c-Si heterojunction solar cells completely processed at low temperatures

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006 , eds. Poortman, J. [u.a.]
WIP Renewable Energies, München, 2006, 784 - 787

Conrad, E. ; Maydell, K.v. ; Angermann, H. ; Schubert, C. ; Schmidt, M.

Optimization of interface properties in a-Si:H/c-Si heterojunction solar cells

In: 2006 IEEE 4th World Conference on Photovoltaic Energy Conversion : Waikoloa, Hawaii, May 7-12, 2006 : WCPEC-4
IEEE, Piscataway, NJ, 2006, 1263 - 1266

Fuhs, W. ; Korte, M. ; Schmidt, M.

Heterojunctions of hydrogenated amorphous silicon and monocrystalline silicon

Journal of Optoelectronics and Advanced Materials
8 (2006) 1989 - 1995

Fuhs, W. ; Laades, A. ; Maydell, K.v. ; Stangl, R. ; Gusev, O.B. ; Terukov, E.I. ; Kazitsyna-Baranovski, S. ; Weiser, G.

Band-edge electroluminescence from amorphous/crystalline silicon heterostructure solar cells

Journal of Non-Crystalline Solids
352 (2006) 1884 - 1887

Gudovskikh, A.S. ; Kleider, J.P. ; Stangl, R.

New approach to capacitance spectroscopy for interface characterization of a-Si:H/c-Si heterojunctions

Journal of Non-Crystalline Solids
352 (2006) 1213 - 1216

Güell, A.G. ; Roodenko, K. ; Yang, F. ; Hinrichs, K. ; Gensch, M. ; Sanz, F. ; Rappich, J.

Interface properties and passivation of p-Si(111) surfaces by electrochemical organic layer deposition

Materials Science and Engineering B
134 (2006) 273 - 276

Hunger, R. ; Jaegermann, W. ; Merson, A. ; Shapira, Y. ; Pettenkofer, C. ; Rappich, J.

Electronic structure of methoxy-, bromo-, and nitrobenzene grafted onto Si(111)

Journal of Physical Chemistry B
110 (2006) 15432 - 15441

Korte, L.

Die elektronische Struktur des amorph-kristallinen Silizium-Heterostruktur-Kontakts

HMI-B 611
(Oct. 2006)

Korte, L. ; Laades, A. ; Schmidt, M.

Electronic states in a-Si:H/c-Si heterostructures

Journal of Non-Crystalline Solids

352 (2006) 1217 - 1220

Maydell K. v. ; Conrad, E. ; Schmidt, M.

Efficient silicon heterojunction solar cells based on p- and n-type substrates processed at temperatures < 220°C

Progress in Photovoltaics: Research and Applications

14 (2006) 289 - 295

Maydell, K.v. ; Korte, L. ; Laades, A. ; Stangl, R. ; Conrad, E. ; Lange, F. ; Schmidt, M.

Characterization and optimization of the interface quality in amorphous/crystalline silicon heterojunction solar cells

Journal of Non-Crystalline Solids

352 (2006) 1958 - 1961

Rappich, J. ; Merson, A. ; Roodenko, K. ; Dittrich, Th. ; Gensch, M. ; Hinrichs, K. ; Shapira, Y.

Electronic properties of Si surfaces and side reactions during electrochemical grafting of phenyl layers

Journal of Physical Chemistry B

110 (2006) 1332 - 1337

Schmidt, M. ; Angermann, H. ; Conrad, E. ; Korte, L. ; Laades, A. ; Maydell, K.v. ; Schubert, Ch. ; Stangl, R.

Physical and technological aspects of a-Si:H/c-Si hetero-junction solar cells

In: 2006 IEEE 4th World Conference on Photovoltaic Energy Conversion : Waikoloa, Hawaii, May 7-12, 2006 : WCPEC-4

IEEE, Piscataway, NJ, 2006, 1433 - 1438

SE1.Others

Hinrichs, K. ; Gensch, M. ; Esser, N. ; Schade, U. ; Rappich, J. ; Kröning, S. ; Portwich, M. ; Volkmer, R.

Analysis of biosensors by chemically specific optical techniques. Chemiluminescence-imaging and infrared mapping ellipsometry

Analytical and Bioanalytical Chemistry

(publ. online) (2006)

SE2 - Heterogeneous material systems

SE1.Hetero

Angermann, H. ; Rappich, J. ; Sieber, I. ; Hübener, K. ; Polte, J. ; J. Hauschild, J.

Wet-chemical passivation of atomically flat and structured silicon substrates

In: 5th International Conference on Solid State Surfaces and Interfaces, SSSI 2006 : November 19-24, 2006, Smolenice Castle, Slovak Republic / Extended Abstract Book

2006, 13 - 16

SE2.Analytics

Bär, M. ; Reichardt, J. ; Sieber, I. ; Grimm, A. ; Kötschau, I. ; Lauermann, I. ; Sokoll, S. ; Lux-Steiner, M.C. ; Fischer, Ch.-H. ; Niesen, T.P.

ZnO layers deposited by the ion layer gas reaction on Cu(In,Ga)(S,Se)₂ thin film solar cell absorbers: Morphology, growth mechanism, and composition

Journal of Applied Physics

100 (2006) 023710/1 - 9

Fischer, Ch.-H. ; Bär, M. ; Glatzel, Th. ; Lauermann, I. ; Lux-Steiner, M.C.
Interface engineering in chalcopyrite thin film solar devices
Solar Energy Materials and Solar Cells
90 (2006) 1471 - 1485

Fischer, Ch.-H. ; Bär, M. ; Glatzel, Th. ; Lauermann, I. ; Lux-Steiner, M.C.
Interface engineering in chalcopyrite thin film solar devices
Solar Energy Materials and Solar Cells
90 (2006) 1471 - 1485

Hanna, G. ; Glatzel, T. ; Sadewasser, S. ; Ott, N. ; Strunk, H.P. ; Rau, U. ; Werner, J.H.
Texture and electronic activity of grain boundaries in Cu(In,Ga)Se₂ thin films
Applied Physics A
82 (2006) 1 - 7

Hoppe, H. ; Glatzel, T. ; Niggemann, M. ; Schwinger, W. ; Schaeffler, F. ; Hinsch, A. ; Lux-Steiner, M.Ch. ; Sariciftci, N.S.
Efficiency limiting morphological factors of MDMO-PPV: PCBM plastic solar cells
Thin Solid Films
511-512 (2006) 587 - 592

Leendertz, C. ; Streicher, F. ; Lux-Steiner, M.Ch. ; Sadewasser, S.
Evaluation of Kelvin probe force microscopy for imaging grain boundaries in chalcopyrite thin films
Applied Physics Letters
89 (2006) 113120/1 - 3

Loreck, Ch. ; Lauermann, I. ; Grimm, A. ; Klenk, R. ; Bär, M. ; Lehmann, S. ; Sokoll, S. ; Lux-Steiner, M.Ch. ; Erfurth, F. ; Weinhardt, L. ; Heske, C. ; Visbeck, S. ; Niesen, T.P. ; Jung, Ch. ; Fischer, Ch-H.
Interface chemistry between the sputter-Zn_{1-x}Mg_xO buffer and the Cu(In,Ga)(S,Se)₂ absorber
In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006 , eds. Poortman, J. [u.a.]
WIP Renewable Energies, München, 2006, 1874 - 1877

Muffler, H.-J. ; Bär, M. ; Lauermann, I. ; Rahne, K. ; Schröder, M. ; Lux-Steiner, M.C. ; Fischer, C.-H. ; Niesen, T.P. ; Karg, F.
Colloid attachment by ILGAR-layers: Creating fluorescing layers to increase quantum efficiency of solar cells
Solar Energy Materials and Solar Cells
90 (2006) 3143 - 3150

Rusu, M. ; Glatzel, Th. ; Neisser, A. ; Kaufmann, C.A. ; Sadewasser, S. ; Lux-Steiner, M.Ch.
Formation of the physical vapor deposited CdS/Cu(In,Ga)Se₂ interface in highly efficient thin film solar cells
Applied Physics Letters
88 (2006) 143510/1 - 3

Sadewasser, S.
Electronic properties of surfaces and interfaces in widegap chalcopyrites
In: Wide-gap chalcopyrites, eds. Siebentritt, S. ; Rau, U.
Springer, Berlin, 2006, 193 - 212

Sadewasser, S.
Surface potential of chalcopyrite films measured by KPFM
Physica Status Solidi A
203 (2006) 2571 - 2580

Sadewasser, S. ; Abadal, G. ; Barniol, N. ; Dohn, S. ; Boisen, A. ; Fonseca, L. ; Esteve, J.
Integrated tunneling sensor for nanoelectromechanical systems
Applied Physics Letters
89 (2006) 173101/1 - 3

Sadewasser, S. ; Villanueva, G. ; Plaza, J.A.

Modified atomic force microscopy cantilever design to facilitate access of higher modes of oscillation

Review of Scientific Instruments

77 (2006) 073703/1 - 5

Sadewasser, S. ; Villanueva, G. ; Plaza, J.A.

Special cantilever geometry for the access of higher oscillation modes in atomic force microscopy

Applied Physics Letters

89 (2006) 033106/1 - 3

Vogel, M. ; Doka, S. ; Breyer, Ch. ; Lux-Steiner, M.Ch. ; Fostiroopoulos, K.

On the function of a bathocuproine buffer layer in organic photovoltaic cells

Applied Physics Letters

89 (2006) 163501/1 - 3

Weinhardt, L. ; Fuchs, O. ; Peter, A. ; Umbach, E. ; Heske, C. ; Reichardt, J. ; Bär, M. ; Lauermann, I. ; Kötschau, I. ; Grimm, A. ; Sokoll, S. ; Lux-Steiner, M.Ch. ; Niesen, T.P. ; Visbeck, S. ; Karg, F.

Spectroscopic investigation of the deeply buried Cu(In,Ga)(S,Se)_x/Mo interface in thin-film solar cells

Journal of Chemical Physics

124 (2006) 074705/1 - 5

SE2.Chemistry

Allsop, N.A. ; Hänsel, A. ; Visbeck, S. ; Niesen, T.P. ; Lux-Steiner, M.C. ; Fischer, Ch.-H.

The dry and damp heat stability of chalcopyrite solar cells prepared with an indium sulfide buffer deposited by the spray-ILGAR technique

Thin Solid Films

511-512 (2006) 55 - 59

Allsop, N.A. ; Schönmann, A. ; Belaidi, A. ; Muffler, H.-J. ; Mertesacker, B. ; Bohne, W. ; Strub, E. ; Röhrich, J. ; Lux-Steiner, M.C. ; Fischer, Ch.-H.

Indium sulfide thin films deposited by the spray ion layer gas reaction technique

Thin Solid Films

513 (2006) 52 - 56

Bär, M. ; Ennaoui, A. ; Klaer, J. ; Kropp, T. ; Sáez-Araoz, R. ; Allsop, N. ; Lauermann, I. ; Schock, H.-W. ; Lux-Steiner, M.C.

Formation of a ZnS/Zn(S,O) bilayer buffer on CuInS₂ thin film solar cell absorbers by chemical bath deposition

Journal of Applied Physics

99 (2006) 123503/1 - 9

Bär, M. ; Ennaoui, A. ; Klaer, J. ; Kropp, T. ; Sáez-Araoz, R. ; Lehmann, S. ; Grimm, A. ; Lauermann, I. ; Loreck, Ch. ; Sokoll, St. ; Schock, H.-W. ; Fischer, Ch.-H. ; Lux-Steiner, M.C. ; Jung, Ch.

Intermixing at the heterointerface between ZnS/Zn(S,O) bilayer buffer and CuInS₂ thin film solar cell absorber

Journal of Applied Physics

100 (2006) 064911/1 - 9

Bär, M. ; Ennaoui, A. ; Klaer, J. ; Sáez-Araoz, R. ; Kropp, T. Weinhardt, L. ; Heske, C. ; Schock, H.-W. ; Fischer, Ch.-H. ; Lux-Steiner, M.C.

The electronic structure of the [Zn(S,O)/ZnS]/CuInS₂ heterointerface - Impact of post-annealing

Chemical Physics Letters

433 (2006) 71 - 74

Bär, M. ; Weinhardt, L. ; Heske, C. ; Muffler, H.-J. ; Umbach, E. ; Lux-Steiner, M.Ch. ; Niesen, Th.P. ; Karg, F. ; Fischer, Ch.-H.

Chemical insights into the Cd²⁺/NH₃ treatment --An approach to explain the formation of Cd-compounds on Cu(In,Ga)(S,Se)₂ absorbers

Solar Energy Materials and Solar Cells
90 (2006) 3151 - 3157

Ennaoui, A. ; Bär, M. ; Klaer, J. ; Kropp, T. ; Sáez-Araoz, R. ; Lux-Steiner, M.Ch.

Highly-efficient Cd-free CuInS₂ thin-film solar cells and mini-modules with Zn(S,O) buffer layers prepared by an alternative chemical bath process

Progress in Photovoltaics: Research and Applications
14 (2006) 499 - 511

Ennaoui, A. ; Bär, M. ; Rusu, M. ; Klenk, R. ; Klaer, J. ; Kropp, T. ; Sáez-Araoz, R. ; Schock, H.W. ; Lux-Steiner, M.C.

Highly efficient CuInS₂-based solar cell devices with an optimized Cd-free window structure

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006. München: , eds. Poortman, J. [u.a.] WIP Renewable Energies, München, 2006, 1835 - 1838

Ennaoui, A. ; Sankapal, B.R. ; Skryshevsky, V. ; Lux-Steiner, M.Ch.

TiO₂ and TiO₂-SiO₂ thin films and powders by one-step soft-solution method: Synthesis and characterizations

Solar Energy Materials and Solar Cells
90 (2006) 1533 - 1541

Fischer, Ch.-H. ; Allsop, N. ; Bär, M. ; Muffler, H.-J. ; Lux-Steiner, M.C.

ILGAR (Ion Layer Gas Reaction) - a versatile low-cost method for the deposition of high quality thin semiconductor and insulator layers

In: 49th annual technical conference proceedings / Society of Vacuum Coaters
2006, 470 - 479

Knittlmayer, C. ; Muffler, H.-J. ; Fischer, Ch.-H. ; Weppner, W.

Investigation of electrochromic tungsten trioxide thin films prepared by the ILGAR method

Ionics
12 (2006) 127 - 130

Sankapal, B.R. ; Sartale, S.D. ; Lux-Steiner, M.C. ; Ennaoui, A.

Chemical and electrochemical synthesis of nanosized TiO₂ anatase for large-area photon conversion

Comptes Rendus Chimie
9 (2006) 702 - 707

SE2.Concepts

Bayon, R. ; Musembi, R. ; Belaidi, A. ; Bär, M. ; Guminiskaya, T. ; Fischer, Ch.-H. ; Lux-Steiner, M.Ch. ; Dittrich, Th.

Highly structured TiO₂/In(OH)_xS_yPbS/PEDOT:PSS to be used in photovoltaic applications

Comptes Rendus Chimie
9 (2006) 730 - 734

Breyer, Ch. ; Vogel, M. ; Mohr, M. ; Johnev, B. ; Fostiroopoulos, K.

Influence of exciton distribution on external quantum efficiency in bilayer organic solar cells

Physica Status Solidi B
243 (2006) 3176 - 3180

Dittrich, Th. ; Mora-Sero, I. ; Garcia-Belmonte, G. ; Bisquert, J.

Temperature dependent normal and anomalous electron diffusion in porous TiO₂ studied by transient surface photovoltage

Physical Review B
73 (2006) 045407/1 - 8

Dittrich, Th. ; Ofir, A. ; Tirosh, S. ; Grinis, L. ; Zaban, A.

Influence of the porosity on diffusion and lifetime in porous TiO₂ layers

Applied Physics Letters
88 (2006) 182110/1 - 3

Fostirooulos, K. ; Mete, T. ; Steitz, R. ; Lauermann, I. ; Fischer, C.-H. ; Lux-Steiner, M.C.

X-ray analytical methods for ultra-thin organic films

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006. München: , eds. Poortman, J. [u.a.] WIP Renewable Energies, München, 2006, 298 - 300

Gavrilov, S. ; Oja, I. ; Lim, B. ; Belaidi, A. ; Bohne, W. ; Strub, E. ; Röhrich, J. ; Lux-Steiner, M.-Ch. ; Dittrich, Th.

Charge selective contact on ultra-thin In(OH)_xS_y/Pb(OH)_xS_y heterostructure prepared by SILAR

Physica Status Solidi A
203 (5) (2006) 1024 - 1029

Mora-Sero, I. ; Anta, J.A. ; Dittrich, T. ; Garcia-Belmonte, G. ; Bisquert, J.

Continuous time random walk simulation of short-range electron transport in TiO₂ layers compared with transient surface photovoltage measurements

Journal of Photochemistry and Photobiology A: Chemistry
182 (2006) 280 - 287

Mora-Seró, I. ; Bisquert, J. ; Fabregat-Santiago, F. ; Garcia-Belmonte, G. ; Zoppi, G. ; Durose, K. ; Proskuryakov, Y. ; Oja, I. ; Belaidi, A. ; Dittrich, Th. ; Tena-Zaera, R. ; Katty, A. ; Lévy-Clément, C. ; Barrioz, V. ; Irvine, S.J.C.

Implications of the negative capacitance observed at forward bias in nanocomposite and polycrystalline solar cells

Nano Letters
6 (2006) 640 - 650

Mora-Sero, I. ; Dittrich, T. ; Garcia-Belmonte, G. ; Bisquert, J.

Determination of spatial charge separation of diffusing electrons by transient photovoltage measurements

Journal of Applied Physics
100 (2006) 103705/1 - 6

Ofir, A. ; Dittrich, Th. ; Tirosh, S. ; Grinis, L. ; Zaban, A.

Influence of sintering temperature, pressing, and conformal coatings on electron diffusion in electrophoretically deposited porous TiO₂

Journal of Applied Physics
100 (2006) 074317/1 - 6

Oja, I. ; Belaidi, A. ; Dloczik, L. ; Lux-Steiner, M.-Ch. ; Dittrich, Th.

Photoelectrical properties of In(OH)_xS_y/PbS(O) structures deposited by SILAR on TiO₂

Semiconductor Science and Technology
21 (2006) 520 - 526

Piroto Duarte, J. ; Vilao, R.C. ; Alberto, H.V. ; Gil, J.M. ; Gil, F.P.S.C. ; Weidinger, A. ; Ayres De Campos, N. ; Fostirooulos, K.

Muoniated radical states in the organic semiconductor phthalocyanine

Physical Review B
73 (2006) 075209/1 - 6

Rühle, S. ; Dittrich, Th.

Recombination controlled signal transfer through mesoporous TiO₂ films

Journal of Physical Chemistry B
110 (2006) 3883 - 3888

Schoenfeld, R.S. ; Harneit, W. ; Paech, M.

Pulsed and cw EPR studies on hydrogen atoms encaged in octasilsesquioxane molecules

Physica Status Solidi B

243 (2006) 3008 - 3012

Tirosh, S. ; Dittrich, Th. ; Ofir, A. ; Grinis, L. ; Zaban, A.

Influence of ordering in porous TiO₂ layers on electron diffusion

Journal of Physical Chemistry B

110 (2006) 16165 - 16168

Vogel, M. ; Strotmann, J. ; Johnev, B. ; Lux-Steiner, M.Ch. ; Fostiropoulos, K.

Influence of nanoscale morphology in small molecule organic solar cells

Thin Solid Films

511-512 (2006) 367 - 370

Zollondz, J.-H. ; Schwen, D. ; Nix, A.-K. ; Trautmann, C. ; Berthold, J. ; Krauser, J. ; Hofsäss, H.

Conductive nanoscopic ion-tracks in diamond-like-carbon

Materials Science and Engineering C

26 (2006) 1171 - 1174

SE2.Integration

Kaufmann, C.A. ; Neisser, A. ; Unold, Th. ; Klenk, R. ; Schock, H.-W. ; Kessler, F. ; Kniese, R. ; Herrmann, D. ; Powalla, M. ; Kroon, M. ; Oomen, G. ; Slootweg, D.

Testing of flexible Cu(In,Ga)Se₂ based thin film solar cells in view of space applications

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006 , eds. Poortman, J. [u.a.]

WIP Renewable Energies, München, 2006, 1965 - 1968

Köble, Ch. ; Klaer, J. ; Klenk, R. ; Lux-Steiner, M.Ch.

Stability of CuInS₂ module test structures under reverse bias stress

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006, eds. Poortman, J. [u.a.]

WIP Renewable Energies, München, 2006, 1962 - 1964

SE2.Others

Itskos, G. ; Murray, R. ; Meeder, A. ; Papathanasiou, N. ; Lux-Steiner, M. Ch.

Optical spin injection in CuGaSe₂/GaAs films

Applied Physics Letters

89 (2006) 032108/1 - 3

SE2.Semico

Arushanov, E. ; Siebentritt, S. ; Schedel-Niedrig, T. ; Lux-Steiner, M.Ch.

Hopping conductivity in p-CuGaSe₂ films

Journal of Applied Physics

100 (2006) 063715/1 - 4

Kaigawa, R. ; Ohyama, A. ; Wada, T. ; Klenk, R.

Electric properties of Cu-poor and Cu-rich Cu(In,Ga)S₂ films after O₂-annealing

Physica Status Solidi C

3 (2006) 2568 - 2571

Kaigawa, R. ; Wada, T. ; Bakehe, S. ; Klenk, R.

Three-stage evaporation of Cu(In,Ga)S₂ solar cell absorber films without KCN treatment and Na control

Thin Solid Films

511-512 (2006) 430 - 433

Klenk, R. ; Lux-Steiner, M.Ch.

Chalcopyrite based solar cells

In: Thin film solar cells : fabrication, characterization, and applications, eds. Poortmans, J. [u.a.] Wiley, Chichester, 2006, 237 - 275

Lehmann, S. ; Bär, M. ; Fuertes-Marron, D. ; Pistor, P. ; Wiesner, S. ; Rusu, M. ; Kötschau, I. ; Lauermann, I. ; Grimm, A. ; Sokoll, S. ; Fischer, Ch.-H. ; Schedel-Niedrig, Th. ; Lux-Steiner, M.Ch. ; Jung, Ch.

CuGaSe₂-CuGa₃Se₅ phase transition in CCSVT-grown thin films

Thin Solid Films

511-512 (2006) 623 - 627

Lei, C.H. ; Rockett, A.A. ; Robertson, I.M. ; Papathanasiou N. ; Siebentritt, S.

Interface reactions and Kirkendall voids in metal organic vapor-phase epitaxy grown Cu(In,Ga)Se₂ thin films on GaAs

Journal of Applied Physics

100 (2006) 114915/1 - 8

Siebentritt, S.

Shallow defects in the wide gap chalcopyrite CuGaSe₂

In: Wide-gap chalcopyrites, eds. Siebentritt, S. ; Rau, U.

Springer, Berlin, 2006, 113 - 156

Siebentritt, S. ; Papathanasiou, N. ; Albert, J. ; Lux-Steiner, M.Ch.

Stability of surfaces in the chalcopyrite system

Applied Physics Letters

88 (2006) 151919/1 - 3

Siebentritt, S. ; Papathanasiou, N. ; Lux-Steiner, M.Ch.

Potential fluctuations in compensated chalcopyrites

Physica B

376-377 (2006) 831 - 833

Siebentritt, S. ; Rau, U. [Eds.]

Wide-gap chalcopyrites

(Springer series in materials science ; 86)

Springer, Berlin, 2006

Siebentritt, S. ; Sadewasser, S. ; Wimmer, M. ; Leendertz, C. ; Eisenbarth, T. ; Lux-Steiner, M.Ch.

Evidence for a neutral grain-boundary barrier in chalcopyrites

Physical Review Letters

97 (2006) 146601/1 - 4

Theodoropoulou, S. ; Papadimitriou, D. ; Rega, N. ; Siebentritt, S. ; Lux-Steiner, M.Ch.

Raman and photoreflectance study of CuIn_{1-x}Ga_xSe₂ epitaxial layers

Thin Solid Films

511-512 (2006) 690 - 694

SE3.Baseline

Caballero, R. ; Guillén, C. ; Gutiérrez, M.T. ; Kaufmann, C.A.

CuIn_{1-x}Ga_xSe₂-based thin-film solar cells by the selenization of sequentially evaporated metallic layers

Progress in Photovoltaics: Research and Applications

14 (2006) 145 - 153

Klaer, J. ; Klenk, R. ; Abou-Ras, D. ; Scheer, R. ; Schock, H.W. ; Schmid, D. ; Eisele, W. ; Hinze, J. ; Luck, I. ; Klopmann, C.v. ; Meeder, A. ; Rühle, U. ; Meyer, N.

Progress in mini-modules from a CuInS₂ baseline process

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006, eds. Poortman, J. [u.a.]

WIP Renewable Energies, München, 2006, 1801 - 1805

SE5.Energetics

Huebener, K. ; Scheloske, M. ; Hauschild, J. ; Harneit, W. ; Zehl, G. ; Fiechter, S.

AFM investigation of the formation of one-dimensional structures of C₆₀ shuttlecocks on HOPG

Physica Status Solidi B

243 (2006) 2990 - 2994

Koslowski, U. ; Ellmer, K. ; Bogdanoff, P. ; Dittrich, T. ; Guminiskaya, T. ; Tributsch, H.

Structural, electrical, optical, and photoelectrochemical properties of thin titanium oxinitride films (TiO_{2-x}N_x with 0 <= x <= 1)

Journal of Vacuum Science and Technology A

24 (2006) 2199 - 2005

SE3 - Technology

SE2.Chemistry

Bär, M. ; Ennaoui, A. ; Klaer, J. ; Kropp, T. ; Sáez-Araoz, R. ; Lehmann, S. ; Grimm, A. ; Lauermann, I. ; Loreck, Ch. ; Sokoll, St. ; Schock, H.-W. ; Fischer, Ch.-H. ; Lux-Steiner, M.C. ; Jung, Ch.

Intermixing at the heterointerface between ZnS/Zn(S,O) bilayer buffer and CuInS₂ thin film solar cell absorber

Journal of Applied Physics

100 (2006) 064911/1 - 9

Bär, M. ; Ennaoui, A. ; Klaer, J. ; Sáez-Araoz, R. ; Kropp, T. Weinhardt, L. ; Heske, C. ; Schock, H.-W. ; Fischer, Ch.-H. ; Lux-Steiner, M.C.

The electronic structure of the [Zn(S,O)/ZnS]/CuInS₂ heterointerface - Impact of post-annealing

Chemical Physics Letters

433 (2006) 71 - 74

Ennaoui, A. ; Bär, M. ; Klaer, J. ; Kropp, T. ; Sáez-Araoz, R. ; Lux-Steiner, M.Ch.

Highly-efficient Cd-free CuInS₂ thin-film solar cells and mini-modules with Zn(S,O) buffer layers prepared by an alternative chemical bath process

Progress in Photovoltaics: Research and Applications

14 (2006) 499 - 511

Ennaoui, A. ; Bär, M. ; Rusu, M. ; Klenk, R. ; Klaer, J. ; Kropp, T. ; Sáez-Araoz, R. ; Schock, H.W. ; Lux-Steiner, M.C.

Highly efficient CuInS₂-based solar cell devices with an optimized Cd-free window structure

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006. München: , eds. Poortman, J. [u.a.]

WIP Renewable Energies, München, 2006, 1835 - 1838

SE2.Integration

Köble, Ch. ; Klaer, J. ; Klenk, R. ; Lux-Steiner, M.Ch.

Stability of CuInS₂ module test structures under reverse bias stress

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006, eds. Poortman, J. [u.a.]

WIP Renewable Energies, München, 2006, 1962 - 1964

SE3.Baseline

Bär, M. ; Weinhardt, L. ; Fuchs, O. ; Klaer, J. ; Peiser, J. ; Schock, H.-W. ; Heske, C.

Chemical bath deposition of CdS thin films on CuInS₂ and Si substrates - a comparative X-ray emission study

In: 2006 IEEE 4th World Conference on Photovoltaic Energy Conversion : Waikoloa, Hawaii, May 7-12, 2006

: WCPEC-4

IEEE, Piscataway, NJ, 2006, 416 - 419

Caballero, R. ; Guillén, C. ; Gutiérrez, M.T. ; Kaufmann, C.A.

CuIn_{1-x}Ga_xSe₂-based thin-film solar cells by the selenization of sequentially evaporated metallic layers

Progress in Photovoltaics: Research and Applications

14 (2006) 145 - 153

Enzenhofer, T. ; Unold, T. ; Schock, H.-W.

Photoluminescence and Raman spectroscopy on doped CuInS₂ thin films for solar cells

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006, eds. Poortman, J. [u.a.]

WIP Renewable Energies, München, 2006, 1983 - 1985

Enzenhofer, T. ; Unold, T. ; Schock, H.W.

Doping induced structural changes in CuInS₂ thin films and the effects on optical and electrical properties

Physica Status Solidi A

203 (2006) 2624 - 2629

Klaer, J. ; Klenk, R. ; Abou-Ras, D. ; Scheer, R. ; Schock, H.W. ; Schmid, D. ; Eisele, W. ; Hinze, J. ; Luck, I. ; Klopmann, C.v. ; Meeder, A. ; Rühle, U. ; Meyer, N.

Progress in mini-modules from a CuInS₂ baseline process

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006, eds. Poortman, J. [u.a.]

WIP Renewable Energies, München, 2006, 1801 - 1805

SE3.Control

Djordjevic, J. ; Rudigier, E. ; Scheer, R.

Real-time studies of phase transformations in Cu-In-Se-S thin films--- 3: Selenization of Cu-In precursors

Journal of Crystal Growth

294 (2006) 218 - 230

von Klopmann, Ch. ; Djordjevic, J. ; Rudigier, E. ; Scheer, R.

Real-time studies of phase transformations in Cu-In-Se-S thin films 2. Sulfurization of Cu-In precursors

Journal Crystal Growth

289 (2006) 121 - 133

von Klopmann, Ch. ; Djordjevic, J. ; Scheer, R.

Real-time studies of phase transformations in Cu-In-Se-S thin films 1. Intermetallic phase transformations

Journal Crystal Growth

289 (2006) 113 - 120

SE3.Others

Kötschau, I.M. ; Schock, H.W.

Compositional depth profiling of polycrystalline thin films by grazing-incidence X-ray diffraction

Journal of Applied Crystallography

39 (2006) 683 - 696

Schorr, S. ; Tovar, M. ; Stuesser, N. ; Sheptyakov, D. ; Geandier, G.

Where the atoms are: Cation disorder and anion displacement in $D^{\text{II}}X^{\text{VI}}\text{-A}^{\text{I}}\text{B}^{\text{III}}X^{\text{VI}}_2$ semiconductors

Physica B

385-386 (2006) 571 - 573

SE5.Energetics

Ellmer, K. ; Unold, T.

Reaktives Magnetronputtern von Dünnschichtsolarzellen

Vakuum in Forschung und Praxis

18 (5) (2006) 6 - 10

SF4.Structures

Fink, D. ; Rojas-Chapana, J. ; Petrov, A. ; Tributsch, H. ; Friedrich, D. ; Küppers, U. ; Wilhelm, M. ; Apel, P. Yu. ; Zrineh, A.

The "artificial ostrich eggshell" project: Sterilizing polymer foils for food industry and medicine

Solar Energy Materials and Solar Cells

90 (2006) 1458 - 1470

SE3 - Technology

Addenda to 2005

SE3.Baseline

Enzenhofer, T. ; Unold, T. ; Scheer, R. ; Schock, H.-W.

Assessment of CuInS_2 and $\text{CuInS}_2\text{:}(Zn,Mg)$ solar cells by means of photoluminescence spectroscopy

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]

WIP-Renewable Energies, München, 2005, 1751 - 1754

SE4 - Dynamics of interfacial reactions

SE4.Cells

Kollonitsch, Z. ; Schimper, H.-J. ; Seidel, U. ; Möller, K. ; Neumann, S. ; Tegude, F.-J. ; Willig, F. ; Hannappel, T.

Improved structure and performance of the GaAsSb/InP interface in a resonant tunneling diode

Journal of Crystal Growth

287 (2006) 536 - 540

Kollonitsch, Z. ; Schimper, H.-J. ; Seidel, U. ; Willig, F. ; Hannappel, T.

In situ monitoring and benchmarking in UHV of InP/GaAsSb heterointerface reconstructions prepared via MOVPE

Applied Surface Science

252 (2006) 4033 - 4038

McMahon, W.E. ; Batyrev, I.G. ; Hannappel, T. ; Olson, J.M. ; Zhang, S.B.

5-7-5 line defects on $\text{As}/\text{Si}(100)$: A general stress-relief mechanism for V/IV surfaces

Physical Review B 74, 033304, 2006

74 (2006) 033304/1 - 4

Neges, M. ; Schwarzburg, K. ; Willig, F.

Monte Carlo simulation of energy loss and collection of hot charge carriers, first step towards a more realistic hot-carrier solar energy converter

Solar Energy Materials and Solar Cells

90 (2006) 2107 - 2128

Schimper, H.-J. ; Kollonitsch, Z. ; Möller, K. ; Seidel, U. ; Bloeck, U. ; Schwarzburg, K. ; Willig, F. ; Hannappel, T.

Material studies regarding InP-based high-efficiency solar cells

Journal of Crystal Growth

287 (2006) 642 - 646

Seidel, U. ; Schimper, H.-J. ; Sagol, E. ; Bloeck, U. ; Schwarzburg, K. ; Hannappel, T.

InGaAs/GaAsSb tunnel junction employed in a low band gap tandem solar cell

In: Twentyfirst European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Dresden, Germany, 4 - 8 September 2006. , eds. Poortman, J. [u.a.]

WIP Renewable Energies, München, 2006, 426 - 429

SE4.Dynamics

Ernstorfer, R. ; Gundlach, L. ; Felber, S. ; Eichberger, R. ; Willig, F.

Influence of different anchor-bridge groups on electron transfer from the molecular chromophore perylene to the wide gap semiconductor TiO₂

In: Femtochemistry VII: Fundamental Ultrafast Processes in Chemistry, Physics, and Biology, eds. Welford Castleman, A. Jr. ; Kimble, M.L.

Elsevier, Amsterdam, 2006, 295 - 298

Ernstorfer, R. ; Gundlach, L. ; Felber, S. ; Storck, W. ; Eichberger, R. ; Willig, F.

Role of molecular anchor groups in molecule-to-semiconductor electron transfer

Journal of Physical Chemistry B

110 (2006) 25383 - 25391

Gundlach, L. ; Ernstorfer, R. ; Felber, S. ; Eichberger, R. ; Willig, F.

Electron transfer from molecular chromophores to semiconductors probed with two-photon-photoemission

In: Femtochemistry VII: Fundamental Ultrafast Processes in Chemistry, Physics, and Biology, eds. Welford Castleman, A. Jr. ; Kimble, M.L.

Elsevier, Amsterdam, 2006, 299 - 303

Gundlach, L. ; Ernstorfer, R. ; Willig, F.

Escape dynamics of photoexcited electrons at catechol:TiO₂(110)

Physical Review B

74 (2006) 035324/1 - 10

Hikov, T. ; Schroeter, M.-K. ; Khodeir, L. ; Chemseddine, A. ; Muhler, M. ; Fischer, R.A.

Selective photo-deposition of Cu onto the surface of monodisperse oleic acid capped TiO₂ nanorods probed by FT-IR CO-adsorption studies

Physical Chemistry Chemical Physics

8 (2006) 1550 - 1555

Letzig, T. ; Willig, F. ; Hahn, P.H. ; Schmidt, W.G.

Experimental and theoretical evidence for a hydrogen stabilized c(2x2) reconstruction of the P-rich InP(001) surface

Physical Review B

74 (2006) 245307/1 - 6

Persson, P. ; Lundqvist, M.J. ; Ernstorfer, R. ; Goddard III, W.A. ; Willig, F.

Quantum chemical calculations of the influence of anchor-cum-spacer groups on femtosecond electron transfer times in dye-sensitized semiconductor nanocrystals

Journal of Chemical Theory and Computation

2 (2006) 441 - 451

Piel, J. ; Riedle, E. ; Gundlach, L. ; Ernstorfer, R. ; Eichberger, R.

Sub-20 fs visible pulses with 750 nJ energy from a 100 kHz noncollinear optical parametric amplifier

Optics Letters

31 (2006) 1289 - 1291

Wang, L. ; Willig, F. ; May, V.

Ultrafast heterogeneous electron transfer reactions: Comparative theoretical studies on time- and frequency-domain data

Journal of Chemical Physics

124 (2006) 014712/1 - 11

Wang, L. ; Willig, F. ; May, V.

Theory of ultrafast photoinduced heterogeneous electron transfer

Molecular Simulation

32 (2006) 765 - 781

SE4.Others

Alam, M.S. ; Janata, E.

UV absorption spectrum, formation and disappearance of the oxide radical ion O[·] in aqueous solution: A pulse radiolysis study

Chemical Physics Letters

417 (2006) 363 - 366

Janata, E.

Transient absorption in fused silica induced by trains of high-energy electron pulses

Chemical Physics Letters

417 (2006) 170 - 172

Janata, E.

UV absorption measurements at the pulse radiolysis facility ELBENA

In: Trombay Symposium on Radiation and PhotoChemistry. Vol. 1

2006, 149 - 152

SE5 - Solar energy

SE5.Energetics

Citarella, G. ; Fahrner, W.R. ; Neitzert, H.C. ; Wünsch, F. ; Kunst, M.

Numerical simulation of time resolved charge transport in semiconductor structures for electronic devices

Journal of Computational Electronics

5 (2006) 211 - 215

Ellmer, K. ; Seeger, S. ; Mientus, R.

Rapid crystallization of WS₂ films assisted by a thin nickel layer: An in situ energy-dispersive X-ray diffraction study

Physica Status Solidi A

203 (2006) 2457 - 2462

- Ellmer, K. ; Seeger, S. ; Sieber, I. ; Bohne, W. ; Röhrich, J. ; Strub, E. ; Mientus, R.*
Reactive magnetron sputtering of highly (001)-textured WS_{2-x} films: Influence of Ne⁺, Ar⁺ and Xe⁺ ion bombardment on the film growth
Physica Status Solidi A
203 (2006) 497 - 503
- Ellmer, K. ; Unold, T.*
Reaktives Magnetronputtern von Dünnschichtsolarzellen
Vakuum in Forschung und Praxis
18 (5) (2006) 6 - 10
- Ellmer, K. ; Vollweiler, G.*
Electrical transport parameters of heavily-doped zinc oxide and zinc magnesium oxide single and multilayer films heteroepitaxially grown on oxide single crystals
Thin Solid Films
496 (2006) 104 - 111
- Emilio, C.A. ; Litter, M.I. ; Kunst, M. ; Bouchard, M. ; Colbeau-Justin, C.*
Phenol photodegradation on platinized-TiO₂ photocatalysts related to charge-carrier dynamics
Langmuir
22 (2006) 3606 - 3613
- Goubard, F. ; Aich, R. ; Tran- Van, F. ; Michaleviciute, A. ; Wünsch, F. ; Kunst, M. ; Grazulevicius, J. ; Ratier, B. ; Chevrot, C.*
Investigation of solid hybrid solar cells based on molecular glasses
Proceedings of the Estonian Academy of Science and Engineering
12 (2006) 96 - 110
- Herrmann, I.*
Entwicklung und Optimierung neuer Präparationsverfahren für Übergangsmetall-basierte Elektrokatalysatoren für die Sauerstoffreduktion
Berlin, Freie Univ., Diss.
- Herrmann, I. ; Bogdanoff, P. ; Schmithals, G. ; Fiechter, S.*
Influence of the molecular and mesoscopic structure on the electrocatalytic activity of pyrolysed CoTMPP in the oxygen reduction
In: Proton exchange membrane fuel cells 6 : ... held in Cancun, Mexico in October 2006, eds. Fuller, T. [u.a.] Electrochemical Society, Pennington, NJ, 2006, 211 - 219
- Huebener, K. ; Scheloske, M. ; Hauschild, J. ; Harneit, W. ; Zehl, G. ; Fiechter, S.*
AFM investigation of the formation of one-dimensional structures of C₆₀ shuttlecocks on HOPG
Physica Status Solidi B
243 (2006) 2990 - 2994
- Junghänel, M. ; Tributsch, H.*
Monitoring the reactivity of oxide interfaces in dye solar cells with photocurrent imaging techniques
Comptes Rendus Chimie
9 (2006) 652 - 658
- Kelting, C. ; Weiler, U. ; Mayer, T. ; Jaegermann, W. ; Makarov, S. ; Wöhrle, D. ; Abdallah, O. ; Kunst, M. ; Schlettwein, D.*
Sensitization of thin-film-silicon by a phthalocyanine as strong organic absorber
Organic Electronics
7 (2006) 363 - 368
- Koslowski, U. ; Ellmer, K. ; Bogdanoff, P. ; Dittrich, T. ; Guminskaya, T. ; Tributsch, H.*
Structural, electrical, optical, and photoelectrochemical properties of thin titanium oxinitride films (TiO_{2-x}N_x with 0 <= x <= 1)
Journal of Vacuum Science and Technology A
24 (2006) 2199 - 2005

Kulesza, P.J. ; Miecznikowski, K. ; Baranowska, B. ; Skunik, M. ; Fiechter, S. ; Bogdanoff, P. ; Dorbandt, I.
Tungsten oxide as active matrix for dispersed carbon-supported RuSe_x nanoparticles: Enhancement of the electrocatalytic oxygen reduction
Electrochemistry Communications
8 (2006) 904 - 908

Kunst, M. ; Moehl, T. ; Wünsch, F. ; Tributsch, H.
Optoelectronic properties of SnO₂/TiO₂ junctions
Superlattices and Microstructures
39 (2006) 376 - 380

Loew, N. ; Bogdanoff, P. ; Herrman, I. ; Wollenberger, U. ; Scheller, F.W. ; Katterle, M.
Influence of modifications on the efficiency of pyrolysed CoTMPP as electrode material for horseradish peroxidase and the reduction of hydrogen peroxide
Electroanalysis
18 (2006) 2324 - 2330

Maruthamuthu, P. ; Fiechter, S. ; Tributsch, H.
Lipid (detergent)-based composite-dye solar cell
Comptes Rendus Chimie
9 (2006) 684 - 690

Moehl, T. ; Abd El Halim, M. ; Tributsch, H.
Photoelectrochemical studies on the n-MoS₂--cysteine interaction
Journal of Applied Electrochemistry
36 (2006) 1341 - 1446

Schnohr, C.S. ; Wendler, E. ; Gärtnner, K. ; Wesch, W. ; Ellmer, K.
Ion-beam induced effects at 15 K in α-Al₂O₃ of different orientations
Journal of Applied Physics
99 (2006) 123511/1 - 10

Schulenburg, H. ; Hilgendorff, M. ; Dorbandt, I. ; Radnik, J. ; Bogdanoff, P. ; Fiechter, S. ; Bron, M. ; Tributsch, H.
Oxygen reduction at carbon supported ruthenium-selenium catalysts: Selenium as promoter and stabilizer of catalytic activity
Journal of Power Sources
155 (2006) 47 - 51

Sirimannea, P.M. ; Tributsch, H.
Thiocyanate ligands as crucial elements for regeneration and photo-degradation in TiO₂|dye|CuI solar cells
Materials Chemistry and Physics
99 (2006) 5 - 9

Thomalla, M. ; Tributsch, H.
Chromatographic studies of photodegradation of RuL₂(SCN)₂ in nanostructured dye-sensitization solar cells
Comptes Rendus Chimie
9 (2006) 659 - 666

Thomalla, M. ; Tributsch, H.
Photosensitization of nanostructured TiO₂ with WS₂ quantum sheets
Journal of Physical Chemistry B
110 (2006) 12167 - 12171

Tributsch, H.
Kinetically determined solar cells
Comptes Rendus Chimie
9 (2006) 584 - 596

Tributsch, H.

Nachhaltige Energie

In: Highlights aus der Nano-Welt : eine Schlüsseltechnologie verändert unsere Gesellschaft, eds.

Oesterreicher, M.

Herder, Freiburg, 2006, 123 - 136

Tributsch, H. ; Nadezhina, N. ; Cermak, J.

Infrared images of heat fields around a linear heater in tree trunks: what can be learned about sap flow measurements?

Annals of Forest Science

63 (2006) 653 - 660

Tributsch, H. [Mitautor] ; Hill, B. [Ed.]

In: Bionik : lernen von der Natur ; Lehrbuch für den Lernbereich Naturwissenschaften

Duden Paetec, Berlin, 2006

Unold, T. ; Sieber, I. ; Ellmer, K.

Efficient CuInS₂ solar cells by reactive magnetron sputtering

Applied Physics Letters

88 (2006) 213502/1 - 3

Wünsch, F. ; Citarella, G. ; Abdallah, O. ; Kunst, M.

An inverted a-Si:H/c-Si hetero-junction for solar energy conversion

Journal of Non-Crystalline Solids

352 (2006) 1962 - 1966

Zehl, G. ; Dorbandt, I. ; Schmithals, G. ; Radnik, J. ; Wippermann, K. ; Richter, B. ; Bogdanoff, P. ; Fiechter, S.

Preparation of carbon supported Ru-Se based catalysts and their electrochemical performance in DMFC cathodes

In: Proton exchange membrane fuel cells 6 : ... held in Cancun, Mexico in October 2006, eds. Fuller, T. [u.a.] Electrochemical Society, Pennington, NJ, 2006, 1261 - 1270

Zhao, F. ; Harnisch, F. ; Schröder, U. ; Scholz, F. ; Bogdanoff, P. ; Herrmann, I.

Challenges and constraints of using oxygen cathodes in microbial fuel cells

Environmental Science and Technology

40 (2006) 5193 - 5199

SE5.Interfaces

Berenguier, B. ; Lewerenz, H.J.

Efficient solar energy conversion with electrochemically conditioned CuInS₂ thin film absorber layers

Electrochemistry Communications

8 (2006) 165 - 169

Lewerenz, H.J. ; Jakubowicz, J. ; Jungblut, H.

Nascent, metastable and induced nanostructures on silicon electrodes

Comptes Rendus Chimie

9 (2006) 289 - 293

Wilhelm, T. ; Berenguier, B. ; Aggour, M. ; Kanis, M. ; Lewerenz, H.-J.

Efficient CuInS₂(CIS) solar cells by photoelectrochemical conditioning

Comptes Rendus Chimie

9 (2006) 294 - 300

SF3.Light weight mat.

Matijasevic-Lux, B. ; Banhart, J. ; Fiechter, S. ; Görke, O. ; Wanderka, N.
Modification of titanium hydride for improved aluminium foam manufacture
Acta Materialia
54 (2006) 1887 - 1900

SF4.Structures

Fink, D. ; Rojas-Chapana, J. ; Petrov, A. ; Tributsch, H. ; Friedrich, D. ; Küppers, U. ; Wilhelm, M. ; Apel, P.Yu. ; Zrineh, A.
The "artificial ostrich eggshell" project: Sterilizing polymer foils for food industry and medicine
Solar Energy Materials and Solar Cells
90 (2006) 1458 - 1470

SE6 - Electronic structure of semiconductor interfaces

SE1.Hetero

Hunger, R. ; Jaegermann, W. ; Merson, A. ; Shapira, Y. ; Pettenkofer, C. ; Rappich, J.
Electronic structure of methoxy-, bromo-, and nitrobenzene grafted onto Si(111)
Journal of Physical Chemistry B
110 (2006) 15432 - 15441

SE6.BESSY

Winter, B. ; Faubel, M. ; Hertel, I.V. ; Pettenkofer, C. ; Bradforth, S.E. ; Jagoda-Cwiklik, B. ; Cwiklik, L. ; Jungwirth, P.
Electron binding energies of hydrated H_3O^+ and OH^- : Photoelectron spectroscopy of aqueous acid and base solutions combined with electronic structure calculations
Journal of American Chemical Society
128 (2006) 3864 - 3865

Conference Contributions

SF - Structural Research

SF - BENSC

BENSC.User

Poster

H. N. Bordallo, L.P. Aldridge, A. Desmedt

Water dynamics in hardened cement paste - from Inelastic Neutron Scattering

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten
2006

Hamburg 04. Oct - 06. Oct 2006

SF1.BENSC

Invited Talk

Wimpory, R. C., Ohms, C. , Hornák, P. , Neov, D., and Youtsos, A. G.

Residual Strain measurement of C/C-SiC tubes at high temperature

The 7th European Conference on Residual Stresses 13-15 September 2006 Berlin, Germany
Berlin 13. Sep - 15. Sep 2006

Poster

Clemens, D.; Peters, J.; Bleif, H.J.; Pappas, C.; Mezei, F.

Instrumentierung in der Neutronenleiterhalle-II bei BENSC

SNI2006

Hamburg 04. Oct - 06. Oct 2006

Poster

Gopinadhan, M.; Ivanova, O.; Ahrens, H.; Günther, J.-U.; Steitz, R.; Schönhoff, M.; Helm, C. A.;

Chain stratification in polyelectrolyte multilayers

6th International Symposium on Polyelectrolytes

Dresden 04. Sep - 08. Sep 2006

Invited Talk

Habicht, K.

Polarized Neutron Scattering at the Cold-Neutron Triple-Axis Spectrometer V2/FLEX at BENSC

Workshop on Inelastic Neutron Spectrometers 2006 (WINS2006)

Berlin, 29. Sep - 30. Sep 2006

Invited Talk

Jauch, W.; Reehuis,M.

Charge density in paramagnetic chromium from gamma-ray diffraction

4th European Charge Density Meeting

Brandenburg (Havel) 26. Jan - 29. Jan 2006

Invited Talk

Jauch, W.; Reehuis,M.

Charge density in paramagnetic chromium from gamma-ray diffraction

Sagamore XV Conference on Electron Charge Spin and Momentum Densities

Market Bosworth, GB 13. Aug - 18. Aug 2006

Invited Talk

Peters, J.; Mezei, F.

Le nouvel instrument EXED (Extreme Environment Diffractometer) au Hahn-Meitner-Institut de Berlin

14èmes Journées de la Diffusion Neutronique

Murol (Puy de Dôme) 17. May - 19. May 2006

Poster

Peters, J.; Mezei, F.

The new time-of-flight powder diffractometer for extreme sample environments at the Hahn-Meitner-Institut Berlin

ILL Millenium Symposium and European User's Meeting

Grenoble 27. Apr - 29. Apr 2006

Oral

Peters, J.; Mezei, F.

FIRST RESULTS AT THE NEW EXTREME ENVIRONMENT DIFFRACTOMETER (EXED) AT THE HAHN-MEITNER-INSTITUT BERLIN

EPDIC 10European Powder Diffraction Conference

Geneva 01. Sep - 04. Sep 2006

Invited Talk

Peters, J.; Mezei, F.

General Time-of-Flight Technique for ultra-high Resolution Diffraction on a continuous Source

ESS-S workshop on long pulse instrumentation

Lund, Sweden 20. Apr - 21. Apr 2006

Poster

Peters, J.; Treimer, W.; Mezei, F.

Etude des domaines magnétiques et des parois de Bloch dans un monocristal de nickel par la diffusion de neutrons

14èmes Journées de la Diffusion Neutronique

Murol (Puy de Dôme) 17. May - 19. May 2006

Invited Talk

Schneider, R.; Fähler, S.

Development of a Web-Database to Achieve Consistency in SPP 1239 Results

DFG Schwerpunkt 1239 Meeting

IFW Dresden 19. Sep - 20. Sep 2006

Invited Talk

Schneider, R.; Hofmann, M.; Wimpor, R.; Poeste, T.; Rebelo-Kornmeier, J.

The new and refurbished materials science diffractometers at BER II and FRM II - current projects in co-operation with industry

BBAA Workshop "Leightweight Aero Structures Design and Repair Technology?

Berlin 22. Nov - 22. Nov 2006

Oral

Schneider, R.; Hofmann, M.; Wimpor, R.; Poeste, T.; Rebelo-Kornmeier, J.

The new and refurbished materials science diffractometers at BER II and FRM II - current projects in co-operation with industry

AWT Fachausschuss Eigenspannungen

Garching 31. May - 31. May 2006

Invited Talk

Schneider, R.; Hofmann, M.; Wimpor, R.; Poeste, T.; Rebelo-Kornmeier, J.

The new and refurbished materials science diffractometers at BER II and FRM II - standardization and automation

Workshop POLDI

PSI(CH) 27. Oct - 27. Oct 2006

Invited Talk

Schneider, R.; Mecklenburg, A.

Development of Magnetic Shape Memory Actuators Based on the Standardization of Crystal Growth, Treatment, Training and Quality Assurance

DFG Schwerpunkt 1239

Stiftung Caesar, Bonn 13. Mar - 14. Mar 2006

Invited Talk

Steitz, R.

Neutron reflectivity in soft matter

ADAM Workshop

Bochum 19. May - 19. May 2006

Oral

Steitz, R.; Wong, J. E.; von Klitzing, R.;

Swelling kinetics and structural changes of polyelectrolyte multilayers in contact with aqueous solution and water vapor

SNI2006

Hamburg 04. Oct - 06. Oct 2006

Poster

Steitz, R.; Wong, J. E.; von Klitzing, R.;

Swelling kinetics and structural changes of polyelectrolyte multilayers in contact with aqueous solution and water vapor

6th International Symposium on Polyelectrolytes

Dresden 04. Sep - 08. Sep 2006

Oral

Steitz, R.; Wong, J.E.; v. Klitzing, R.;

Kinetics of water uptake and release of polyelectrolyte multilayers

20th European Colloid and Interface Society Conference

Budapest 17. Sep - 22. Sep 2006

Oral

Strobl, M., Kardjilov, N., Hilger, A., Treimer, W., Manke, I.

New options for monochromatic NR & NCT at HMI Berlin

euro. tomography workshop

HMI 17. Mar - 17. Mar 2006

Poster

Strobl, M., Kardjilov, N., Hilger, A., Treimer, W., Manke, I.

A double monochromator device for the CONRAD imaging instrument at HMI Berlin and applications

SNI

hamburg 04. Oct - 06. Oct 2006

Poster

Strobl, M., Treimer, W.

The new V12a double crystal diffractometer at HMI and neutron imaging

SNI

hamburg 04. Oct - 06. Oct 2006

Poster

Strobl, M., Treimer, W.

New beamline for tomography with monochromatic neutrons and applications

ECNDT

berlin 25. Sep - 29. Sep 2006

Poster

Strobl, M., Treimer, W., Kardjilov, N., Hilger, A., Manke, I.

A double monochromator device for CONRAD

8th WCNR

NIST 16. Oct - 20. Oct 2006

Oral

Strobl, M., W. Treimer, A. Hilger

The new V12 diffractometer at HMI and computerized tomography

DPG Tagung

TU Dresden 27. Mar - 29. Mar 2006

Oral

Strobl, M., W. Treimer, C. Ritzoulis, A. Wagh, I. Manke
The new V12 USANS and tomography instrument at HMI Berlin
SAS2006
Kyoto 10. Jul - 14. Jul 2006

Oral

Strobl, M., W. Treimer, N. Kardjilov, A. Hilger, I. Manke
Imaging with monochromatic neutrons @ HMI Berlin
8th WCNR
NIST, Gaithersburg 16. Oct - 20. Oct 2006

Poster

Strobl, M.; Ritzoulis, Ch.; Panayiotou, C.
Designing the Porosity of Composite Bone Substitutes
SAS2006
Kyoto 10. Jul - 14. Jul 2006

Oral

Treimer, W.
Refractions-, USANS- and tomography with monochromatic neutrons
ECNDT 2006 Berlin (Vortrag)
Berlin 25. Sep - 29. Sep 2006

Oral

Treimer, W.
Neutron Radiography and tomography: New techniques - new results
8th World conference on Neutron Radiography (Vortrag)
Gaithersburg DC Washington (USA) 16. Oct - 19. Oct 2006

Oral

Treimer, W.
Refraction and USANS tomography
Imaging and Neutrons (IAN) 2006 (eingeladener Vortrag)
Oak Ridge TN (USA) 23. Oct - 25. Oct 2006

Oral

Treimer, W.
Neutronentomographie am HMI - ein Überblick
Workshop am HMI (17. 3.2006)
Hahn Meitner Institut Berlin 17. Mar - 17. Mar 2006

Invited Talk

Wimpory, R.C.
Neutron measurements 2005-2006 For VAMAS TWA 31
VAMAS TWA 31 Meeting
Geesthacht (Hamburg), Germany. 18. Dec - 18. Dec 2006

Invited Talk

Wimpory, R.C.
Residual stress measurements for SKF
SKF Engineering Research Centre
Nieuwegein The Netherlands 12. Jan - 12. Jan 2006

Invited Talk

Wimpory, R.C.
NET Task Group 1: Residual Stress Analysis for a Single Bead on Plate Weld
NET-European Network, 10th Steering Committee Meeting, JRC-Petten, 30 Nov - 1 Dec 2006
Petten, Holland 30. Nov - 01. Dec 2006

Invited Talk

Wimpory, R.C.

Thecomplimentaryuseof SANS and Diffractionin industry Part : 1

NET-10th Steering Committee Meeting, JRC-Petten, 30 Nov - 1 Dec 2006
Petten, Holland 30. Dec - 01. Dec 2006

Invited Talk

Wimpory, R.C., Biglari F. R., Schneider, R., Nikbin, K. M., O'Dowd, N. P.

Effect of residual stress on high temperature deformation and cracking in a weld stainless steel

The 7th European Conference on Residual Stresses
Berlin 13. Sep - 15. Sep 2006

Invited Talk

Wimpory, R.C., Hofmann, M., Poeste, T., Rebelo-Kornmeier, J., Garbe, U., Schneider, R.

Neutron Instruments for Materials Research

Joint NET PEKO workshop and 9th NET Steering Committee Meeting
Yeditepe University, Istanbul 08. Jun - 09. Jun 2006

Poster

Wimpory, R.C., Nikbin, K.

Assessment of residual stresses in cracked Fracture Mechanics CT specimens.

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten
2006
Hamburg 04. Oct - 06. Oct 2006

SF2.BENSC

Invited Talk

Denks, I.A.

Diffraktometrische Eigenspannungsanalyse mit weißer Synchrotronstrahlung - Grundlagen, Anwendungen und Perspektiven

Werkstoffseminar
Kassel 30. Oct - 30. Oct 2006

Poster

Denks, I.A.; Genzel, Ch.; Dudzik, E.; Feyerherm, R.; Klaus, M.; Wagener, G.

The new HMI hard X-ray diffraction Beamlines at BESSY

9th International Conference on Synchrotron Radiation
Daegu, Korea 28. May - 03. Jun 2006

Poster

Denks, I.A; Klaus, M.; Gibmeier, J.; Genzel, Ch.

Application of white beam high energy X-ray diffraction to the analysis of near surface gradients

Frühjahrestagung des Arbeitskreises Festkörperphysik der DPG
Dresden 27. Mar - 31. Mar 2006

Poster

Feyerherm, R.; Dudzik, E.; Aliouane, N.; Argyriou, D.N.; Prokhnenco, O.

Multiferroic DyMnO₃ studied by x-ray resonant magnetic scattering

SNI2006, Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten 2006
Hamburg 04. Oct - 06. Oct 2006

Poster

Freydank, H.; Poeste, T; Denks, I.A.; Genzel, Ch.

Investigation on the Residual Stress State in Steel Drawn Cups

BESSY User Meeting
Berlin 07. Dec - 08. Dec 2006

Invited Talk

Genzel, C.

X-ray diffraction analysis of residual stress fields in thin films - basic aspects and applications.

Hauptvortrag auf der Frühjahrstagung des Arbeitskreises Festkörperphysik der DPG, Dresden.

Dresden 27. Mar - 31. Mar 2006

Oral

Genzel, C.

Methodische Entwicklungen an der Materialforschungsbeamline EDDI.

4. Treffen des Virtuellen Instituts PNAM, Düsseldorf.

Düsseldorf 25. Apr - 25. Apr 2006

Poster

Genzel, Ch.; Denks, I.A.; Klaus, M.

The Materials Science Beamline EDDI for Energy-Dispersive Analysis of Subsurface Residual Stress Gradients

7th European Conference on Residual Stresses

Berlin 13. Sep - 15. Sep 2006

Poster

Genzel, Ch.; Denks, I.A.; Klaus, M.; Gibmeier, J.

The Materials Science Beamline EDDI for Energy-Dispersive Diffraction Analysis of Subsurface Residual Stress Gradients

Bessy User Meeting

Berlin 07. Dec - 08. Dec 2006

Invited Talk

Hauß, T.

Protein dynamics during the photocycle of bacteriorhodopsin studied in real-time pulsed quasi elastic neutron scattering experiments

Danish Crystallographic Meeting, Odense, Denmark

Odense 16. Mar - 17. Mar 2006

Poster

Kamarad J.; Prokhnenko, O.; Prokes, K.; Arnold, Z.; Andreev, A.V

Pressure induced helimagnetism in Fe-based (Y₂Fe₁₇, Lu₂Fe₁₇) intermetallic compounds

International Conference on Magnetism

Kyoto 20. Aug - 25. Aug 2006

Oral

Klaus, M.

X-Ray Diffraction Analysis of Nonuniform Residual Stress Fields $\sigma_{ii}(t)$ under Difficult Conditions

7th European Conference on Residual Stresses (ECRS-7)

Berlin 13. Sep - 15. Sep 2006

Oral

Klaus, M.

Energiedispersiv Materialforschung an der Synchrotronbeamline EDDI bei BESSY - Rückblick auf ein Jahr Messbetrieb, Stand und Perspektiven

Sitzung des FA13 der AWT Eigenspannungen, , 30. - 31.05.2006.

München 30. May - 31. May 2006

Oral

Klaus, M.

Residual stress analysis in multilayer systems with synchrotron radiation - complementary investigations using angle and energy dispersive diffraction methods

Frühjahrstagung des Arbeitskreises Festkörperphysik der DPG

Dresden 27. Mar - 31. Mar 2006

Oral

Nadir Aliouane , D.N. Argyriou , J. Strempfer , I. Zegkinoglou , S Landsgesell , M. v. Zimmermann

Field induced magneto-structural transition in multiferroic TbMnO₃

German Conference for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities
2006

Hamburg 04. Oct - 06. Oct 2006

Invited Talk

Prokhnenco, O.; Kamarad J.; Prokes, K.; Arnold, Z.; Andreev, A.V

Helimagnetism in Fe-rich intermetallic compounds

44th European High Pressure Research Group International Conference
Prague 04. Sep - 08. Sep 2006

Poster

Rodriguez-Alvarez, H., Kötschau, I., Streek, C., Weber, A., Klaus, M., Denks, I., Gibmeier, J., Genzel, Ch., Schock, H.W.

First Results from in-situ EDXRD Investigations on the Rapid Thermal Processing of CuInS₂ for Thin Solar Cells Fabrication

BESSY User Meeting

Berlin 07. Dec - 08. Dec 2006

Oral

S. Müller, M. Rubhausen, R. Rauer, A. Rusydi, M. Bastjan, G. Neuber, S. Dastjani-Faharani, B. Schulz, S. Singer, A. Lichtenstein, D. N. Argyriou, K. Dörr

Dielectric properties of TbMnO₃ and La(Sr,Ca)_{0.3}MnO₃ -- evidence for spectral weight changes up to 20 eV.

2006 APS March MeetingMonday-Friday, March 13-17, 2006; Baltimore, MD
13. Mar - 17. Mar 2006

Invited Talk

Smeibidl, P.

New High Field Magnet for Neutron Scattering at Hahn-Meitner Institute, Berlin -Status of the Instrument ExED and Magnet System-

Workshop on Science Opportunities using X-Rays and Split Gap High Field Magnets
Advanced Photon Source, Argonne, USA 08. Jun - 09. Jun 2006

Invited Talk

Smeibidl, P.

New High Field Magnet for Neutron Scattering at the Berlin Neutron Scattering Center (BENSC) -Present and Future-

International Workshop on Sample Environment at Neutron Scattering Facilities
IntensePulsedNeutronSource, Argonne, USA 05. Sep - 07. Sep 2006

Oral

Stüber, N.; Sadykov, R.; Hoser, A.

Neutronenbeugungsuntersuchungen zur druckabhängigen magnetischen Struktur in CsCuCl₃

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten
2006SNI 2006

Hamburg 04. Oct - 06. Oct 2006

Invited Talk

T. Hauss, J. Pieper, A. Buchsteiner, R. E. Lechner, N. A. Dencher

Time resolved protein dynamics during the photocycle of bacteriorhodopsin studied by quasi elastic neutron scattering

12. International Conference on Retinal Proteins - Satellite Meeting Nagoya, Japan
Nagoya 12. Jun - 12. Jun 2006

Invited Talk

T. Hauss, J. Pieper, A. Buchsteiner, R. E. Lechner, N. A. Dencher

Time resolved protein dynamics during the photocycle of bacteriorhodopsin studied by quasi elastic neutron scattering

International Workshop Dynamics of Membranes. Gomadingen, Germany

Gomadingen 20. Mar - 23. Mar 2006

Invited Talk

Tennant, A.

The LET project on TS-II

NUM 06 Neutron user meeting - excitations

Abingdon UK 02. Aug - 02. Aug 2006

Invited Talk

Tennant, A.

BENSC - a centre for neutron research in Berlin

First Joint China US Workshop on Neutron Sciences

Beijing, China 13. Nov - 16. Nov 2006

Oral

Tennant, A., Smeibidl, P.; Steiner, M.

The new high field project at HMI

SNI06 : Synchrotrons, Neutrons and Ions Meeting

Hamburg, Germany 2006 04. Oct - 06. Oct 2006

SF3.BENSC

Poster

Haibel, A.; Scheuerlein, C.; Schneider, R.; Hoffmann, J.-U.; Wimpory, R.; Lake, B.; Banhart, J.; Tennant, A.

Untersuchung intermetallischer Phasenbildung in Nb₃Sn Supraleitern mittels Synchrotron-

Tomographie und Neutronendiffraktion

SNI 2006

Hamburg, Germany 04. Oct - 06. Oct 2006

Poster

Hartnig, Ch.; Manke, I.; Kardjilov, N.; Haibel, A.; Schmidt, G.; Banhart, J.; Lehnert, W.

Investigation of water distribution in porous structures for fuel cell applications by means of synchrotron tomography

Bessy-User-Meeting 2006

Berlin, Germany 07. Dec - 08. Dec 2006

Oral

Kardjilov, N.; Hilger, A.; Manke, I.; Strobl, M.; Treimer, W.; Banhart, J.

Specifics of the neutron tomography in NDT

ECNDT 2006

Berlin 25. Sep - 29. Sep 2006

Oral

Kardjilov, N.; Hilger, A.; Manke, I.; Strobl, M.; Treimer, W.; Banhart, J.

Multifunctional tomography instrument with cold neutrons at HMI

8th World Conference on Neutron Radiography 2006

Gaithersburg, USA 16. Oct - 19. Oct 2006

Oral

Kardjilov, N.; Hilger, A.; Manke, I.; Strobl, M.; Treimer, W.; Banhart, J.

The new cold neutron radiography and tomography instrument CONRAD at HMI Berlin

DPG-Frühjahrstagung 2006

Dresden, Germany 27. Mar - 31. Mar 2006

Oral

Kardjilov, N.; Hilger, A.; Manke, I.; Strobl, M.; Treimer, W.; Banhart, J.

Strain mapping by energy-selective neutron radiography

DPG-Frühjahrstagung 2006

Dresden, Germany 27. Mar - 31. Mar 2006

Poster

Kardjilov, N.; Hilger, A.; Manke, I.; Strobl, M.; Treimer, W.; Banhart, J.

Specifics of the neutron tomography in NDT

ECNDT 2006

Berlin 25. Sep - 29. Sep 2006

Oral

Kardjilov, N.; Hilger, A.; Manke, I.; Strobl, M.; Treimer, W.; Banhart, J.

Phase-contrast tomography with cold neutrons using the propagation technique

8th World Conference on Neutron Radiography 2006

Gaithersburg, USA 16. Oct - 19. Oct 2006

Oral

Manke, I.; Haibel, A.; Rack, A.; Kardjilov, N.; Hilger, A.; Zabler, S.; Melzer, A.; Banhart, J.

In-situ investigation of discharge of alkaline batteries by means of tomography

ECNDT-9

Berlin 25. Sep - 29. Sep 2006

Oral

Manke, I.; Kardjilov, N.; Hartnig, C.; Hilger, A.; Strobl, M.; Treimer, W.; Lehnert, W.; Banhart, J.

Neutron radiography and tomography on fuel cells

ECNDT-9 2006

Berlin 25. Sep - 29. Sep 2006

Invited Talk

Manke, I.; Kardjilov, N.; Hilger, A.; Banhart, J.

Application centre NIXE at HMI Berlin

Meeting of Neutron Radiography Association 2006

Berlin, Germany 17. Mar - 17. Mar 2006

Oral

Strobl, M., N. Kardjilov, A. Hilger, W. Treimer, I. Manke

A double monochromator device for the CONRAD radiography instrument at HMI and applications

DPG Tagung

TU Dresden 27. Mar - 29. Mar 2006

Oral

Tatchev, D.; Goerigk, G.; Hoell, A.; Valova, E.; Kranold, R.; Artyanov, S.; Dille, J.

Composition of nanoprecipitates in Ni₈₃P₁₇ amorphous alloy

NANOPHEN International Workshop

Sandanski, Bulgaria 25. Mar - 30. Mar 2006

SF - ISL**ISL.PPT**

Poster

Berg, A.; Bayreder, C.; Heufelder, J.

3D-MR-microimaging based polymer-gel-dosimetry of proton-pencil-beams for tumor therapy

23rd Annual Scientific Meeting of the European Society for Magnetic Resonance in Medicine and Biology

Warschau 21. Sep - 23. Sep 2006

Oral

Berg, A.; Bayreder, C.; Heufelder, J.

3D-Polymergeldosimetrie von Protonenadelstrahlen

36. Jahrestagung der Deutschen Gesellschaft für Medizinische Physik

Regensburg 20. Sep - 23. Sep 2006

Oral

Heufelder, J.; Cordini, D.; Kluge, H.; Simiantonakis, I.; Stark, R.; Weber, A.; Homeyer, H.

Erfahrungen aus 8 Jahren Protonentherapie

36. Jahrestagung der Deutschen Gesellschaft für Medizinische Physik

Regensburg 20. Sep - 23. Sep 2006

Poster

Heufelder, J.; Cordini, D.; Simiantonakis, I.; Stark, R.; Weber, A.; Kluge, H.

Protonentherapie von Augentumoren - Störung der Dosisverteilung durch Positionsmarker im Bestrahlungsfeld

12. Jahreskongress der Deutschen Gesellschaft für Radioonkologie

Dresden 25. May - 28. May 2006

Oral

Höcht, S.; Bechrakis, N.E.; Cordini, D.; Stroux, A.; Wachtlin, J.; Krause, L.; Heufelder, J.; Stark, R.;

Simiantonakis, I.; Weber, A.; Kluge, H.; Foerster, M.H.; Hinkelbein, W.

A learning curve in ocular tumor therapy ?

44th International Meeting of Particle Therapy Co-Operative Group

Zürich 14. Jun - 16. Jun 2006

ISL.User

Poster

Toledano-Luque, M.; San Andrés, E.; Olea, J.; del Prado, A.; Martíl, I.; Bohne, W.; Röhrich, J.; Strub, E.

Hafnium oxide thin films deposited by high pressure reactive sputtering in atmosphere formed with different Ar/O₂ ratios

E-MRS Spring Meeting 2006

Nizza 29. May - 02. Jun 2006

Oral

Bolse, T.M; Lyutovich, K.; Paulus, H.; Bouhachi, B.; Klaumünzer, S., Bolse, W.

Dewetting of thin metal-oxide films on silicon under swift heavy ion bombardment

21st General Conference of the EPS Condensed Matter Division

Dresden 27. Mar - 31. Mar 2006

Oral

Bolse, W.; Dais, C.; Bolse, T.; Klaumünzer, S., Schubert-Bischoff, P.; Lindner, J.K.N.

Swift heavy ion induced phase formation at NiO/Si-interfaces

21st General Conference of the EPS Condensed Matter Division

Dresden 27. Mar - 31. Mar 2006

Oral

Denker, A.

Zerstörungsfreie Untersuchung von Kunstgegenständen mit Protonen Induzierter Röntgenemission

DGM Tag 2006

Berlin 07. Jun - 09. Jun 2006

Invited Talk

Denker, A.

Ion accelerator applications in medicine and cultural heritage

10th International Symposium on Radiation Physics

Coimbra Portugal 17. Sep - 22. Sep 2006

Invited Talk

*Denker, A.***Non-destructive elemental analysis on paintings and metal artefacts**Fall meeting of the Division of Nuclear Physics of the American Physical Society
Nashville TN, USA 25. Oct - 28. Oct 2006

Poster

*Denker, A.***non-destructive analysis using high-energy protons**Erster Workshop zur Gründung eines Netzwerks zur Kunst- und Kulturguterhaltung
Berlin 25. Sep - 25. Sep 2006

Poster

*Denker, A.; Bohne, W.; Cordini, D.; Heufelder, J.; Homeyer, H.; Klaumünzer, S.; Kluge, H.; Stark, R.; Strub, E. ; Röhricht, J.***Swift Ion Beams for Solid State Physics and Materials Science, Medicine and Science of Art**Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten
2006

Hamburg 04. Oct - 06. Oct 2006

Oral

*Denker, A.; Hahn, O.; Kanngießer, B.; Schröder-Smeibidl; B.***Network of Analytical Research for cultural heritage in Berlin Brandenburg**COST Action G8 - non-destructive analysis and testing of museum objects, final workshop
Nicosia, Zypern 18. May - 20. May 2006

Oral

*Denker, A.; Laurenze-Landsberg, C.***Gemäldeuntersuchungen mit hochenergetischen Protonen**

Archäometrie und Denkmalpflege 2006

Stuttgart 22. Mar - 24. Mar 2006

Oral

*Denker, A.; Opitz-Coutureau, J.; Griesser, M.; Denk, R.; Winter, H.***Zerstörungsfreie Analyse an mittelalterlichen „Wiener Pfennigen“**

Ionenstrahltreffen

HMI 16. May - 17. May 2006

Invited Talk

*Denker, A.; Schröder-Smeibidl, B. ; Mertens, L.-A. ; Berthold, K. ; Niemann, A.***Looking deep into the object**Cultural Heritage and Science: An Interdisciplinary Approach for the Conservation of Museum Objects
Gent 05. Dec - 07. Dec 2006

Oral

*Hedler, A.; Klaumünzer, S.; Lindner, J.K.N.; Frosch, T.; Darowski, N.; Zizak, I.; Popp, J.; Wesch, W.***Void formation in amorphous silicon during swift heavy ion irradiation.**

15th International Conference on Ion Beam Modification of Materials

Taormina, Italien 18. Sep - 22. Sep 2006

Oral

*WOLFF, T.; DENKER, A.; HAHN, O.; MERCHEL, S.; RADTKE, M.; REINHOLZ, U.***RÖNTGENANALYTISCHE METHODEN IM VERGLEICH**

Archäometrietagung

Stuttgart 22. Mar - 24. Mar 2006

SF - BESSY

SF2.BESSY

Poster

Darowski, N., Zizak I.; Gupta A.; Erko, A.; Meneghini, C.

Depth profiling of marker layers with sub-nanometer spatial resolution using X-ray waveguide structures.

BESSY Users' Meeting 2006

Berlin 07. Dec - 08. Dec 2006

Poster

Darowski, N., Zizak, I.; Gupta, A.; Erko, A.; Meneghini, C.

Tiefenaufgelöste Charaktersierung der ioneninduzierten Durchmischung von dünnen Marker-Schichten mittels Röntgenabsorption in Wellenleitergeometrie

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten 2006

Hamburg 04. Oct - 06. Oct 2006

Poster

Darowski, N.; Zizak, I.; Gupta, A.; Erko, A.; Meneghini, C.

Depth profiling of marker layers using X-ray waveguide structures.

4th International Workshop on Nanoscale Spectroscopy and Nanotechnology

Rathen 17. Sep - 21. Sep 2006

Poster

Dudzik, E.; Feyerherm, R.

The new MAGS beamline: an instrument for hard x-ray diffraction at Bessy

SNI2006, Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten 2006

Hamburg 04. Oct - 06. Oct 2006

Invited Talk

Genzel, C.

X-ray diffraction analysis of residual stress fields in thin films - basic aspects and applications

Frühjahrstagung der Deutschen Physikalischen Gesellschaft (DPG)

Dresden 27. Mar - 31. Mar 2006

Oral

Klaus, M.; Denks, I.; Genzel Ch.

Residual stress analysis in multilayer systems with synchrotron radiation - complementary investigations using angle and energy dispersive diffraction methods

DPG (Deutsche Physikalische Gesellschaft e.V.) - spring meeting of the Division of Condensed Matter

Dresden 26. Mar - 31. Mar 2006

Poster

Rossner, H.H.; Schmitz, D.; Darowski, N.

EXAFS and MEXAFS at overlapping L-edges

BESSY Users' Meeting

Berlin-Adlershof 07. Dec - 08. Dec 2006

SF3.BESSY

Poster

Gräber, H. G.; Apel, C.; Rack, A.; Manke, I.; Haibel, A.; Riesemeier, H.; Zabler, S.; Weidemann, G.;

Goebels, J.; Banhart, J.

Hochauflösende Synchrotron-Tomographie zur Darstellung kariöser Prozesse

Bessy-User-Meeting 2006

Berlin, Germany 07. Dec - 08. Dec 2006

Poster

Haas, S.; Hoell, A.; Zehl, G.; Fiechter, S.

Anomalous small-angle X-ray scattering investigation of Ru-Se catalysts supported on carbon

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten
2006

Universität Hamburg 04. Oct - 06. Oct 2006

Oral

Haibel, A.; Scheuerlein, C.; Hoffmann, J.-U.; Schneider, R.; Banhart, J.

Phase analysis in multifilament Nb₃Sn superconduction strands during in-situ heat treatments using neutron diffraction

European Powder Diffraction Conference, EPDIC-10

Geneva 01. Sep - 04. Sep 2006

Oral

Haibel, A.; Scheuerlein, C.; Schneider, R.; Hoffmann, J.-U.; Wimpory, R.; Lake, B.; Banhart, J.; Tennant, A.

Investigation of the Nb₃Sn phase formation in multifilamentary superconductors using synchrotron tomography and neutron diffraction

SRMS-5

Chicago, USA 30. Jul - 02. Aug 2006

Invited Talk

Hoell, A.

"Small angle scattering" - Arbeitstitel Lecture and Introduction to Small-Angle-Scattering and ASAXS

Eighth ESG Conference with the Annual Meeting of the ICG and SGT

Sunderland, UK 10. Sep - 14. Sep 2006

Poster

Hoell, A.; Goerigk, G.; Kranold, R.; Tatchev, D.; Haas, S.; Müller, M.; Rademann, K.; Eichelbaum, M.; Banhart, J.

The formation of optically active nanoparticles in silicate glasses

HASYLAB Users Meeting

Hamburg, Germany 27. Jan - 27. Jan 2006

Poster

Hoell, A.; Zizak, I.; Haas, S.; Tatchev, D.; Banhart, J.

The new A- and GI-SAXS dedicated SAXS instrument installed at the Berlin synchrotron BESSY

Small Angle Scattering 2006 (SAS 2006)

Kyoto, Japan 09. Jul - 13. Jul 2006

Oral

Hoell, A.; Zizak, J.; Haas, S.; Tatchev, D.; Banhart, J.

The A- and Gi-SAXS dedicated SAXS instrument at Bessy 7T wiggler

SNI2006

Hamburg, Germany 04. Oct - 06. Oct 2006

Poster

Kumpuddee-Vollrath, M.; Ngawhirunpat, T.; Hoell, A.; Zizak, I.

Comparison of secondary structure of shed snake skins and human skin by Small Angle X-Ray Scattering (SAXS) Technique

13th International Pharmaceutical Technology Symposium

Antalya, Turkey 10. Sep - 13. Sep 2006

Oral

Zabler, S.; Zaslansky, P.; Thermann, K.; Riesemeier, H.; Kremmin, B.

The use of Fresnel propagation in 3D hard x-ray imaging of mineral matter

XTOP

Karlsruhe, Germany 19. Sep - 22. Sep 2006

SF4.BESSY

Oral

Schumacher, G.; Darowski, N.; Zizak, I; Klingelhöffer, H; Neumann, W.

Time dependence of gamma gamm-prime Lattice Mismatch in Creep-deformed Single Crystal Superalloy SC16 at 1173 K

International Conference on Processing & Manufacturing of advanced Materials

Vancouver, Canada 02. Jul - 08. Jul 2006

Oral

Zizak, I.; Darowski, N.; Klaumünzer, S.; Assmann, W.; Gerlach, J.

Grain rotation in nanocrystalline layers induced by swift heavy ions.

15th International Conference on Ion Beam Modification of Materials

Taormina, Italien 18. Sep - 22. Sep 2006

Poster

Zizak, I.; Darowski, N.; Klaumünzer, S.; Assmann, W.; Gerlach, J.

Kornrotation in nanokristallinen Schichten während der Bestrahlung mit schnellen schweren Ionen.

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten 2006

Hamburg 04. Oct - 06. Oct 2006

SF1 - Methods and Instruments

SF1.Dynamics

Oral

Habicht, K.; Aynajian, P.; Keller, T.; Mezei, F.; Keimer, B.

Effect of the Superconducting Transition on Phonon Lifetimes in Nb investigated with the Neutron Resonance Spin-Echo technique

Polarised Neutrons in Condensed Matter Investigations (PNCMI 2006), Berlin, Germany

Berlin, 25. Sep - 28. Sep 2006

SF1.Methods

Poster

Clemens, D.; Mezei, F.

VSANS - a new opportunity for soft matter investigations

5th PSI Summer School on Condensed Matter Research: Neutron, X-ray and Muon Studies of Nano Scale Structures

Zuoz, Switzerland 19. Aug - 26. Aug 2006

Poster

Clemens, D.; Peters, J.; Pappas, C.; Bleif, H.-J.; Mezei, F.

Instrumentation in Neutron Guide Hall II at BENSC

PNCMI 2006 - Polarized Neutrons in Condensed Matter Investigations

Berlin 25. Sep - 28. Sep 2006

Poster

Fehr, C., Clemens, D.; Pappas, C.; Krist, Th.; Mezei, F.

Validation of a Numerically Designed Polarizing Cavity for the Spin-Echo Spectrometer at BENSC

PNCMI 2006 - Polarized Neutrons in Condensed Matter Investigations

Berlin 25. Sep - 28. Sep 2006

Invited Talk

Krist, T.

Developments in neutron optics

American Conference on Neutron Scattering

Saint Charles, Ill, USA 18. Jun - 22. Jun 2006

Invited Talk

Schneider, R.; Hofmann, M.; Genzel, C.

Ortsaufgelöste, zerstörungsfreie Ermittlung von Eigenspannungen im Innern von hochbelasteten industriellen Bauteilen

Härtereikolloquium

Wiesbaden 11. Oct - 13. Oct 2006

Invited Talk

Schneider, R.; Hofmann, M.; Genzel, C.

Ortsaufgelöste, zerstörungsfreie Ermittlung von Eigenspannungen im Innern von hochbelasteten industriellen Bauteilen

AWT Fachausschuss Qualitätssicherung

Hagen 06. Dec - 06. Dec 2006

Oral

Wiedenmann, A.; Keiderling, U.; Habicht, K.; M. Russina, M.; Gähler, R.

Time-resolved SANS studies of field-induced ordering in ferrofluids

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten 2006 (SNI 2006)

Hamburg, Germany 04. Oct - 06. Oct 2006

SF3.Nanostructures

Oral

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Russina, M.; Gähler, R.

Time-resolved SANS studies (TISANE) of field induced ordering in Ferrofluids

SAS 2006

Kyoto, Japan 09. Jul - 13. Jul 2006

Oral

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Russina, M.; Gähler, R.

Time-resolved SANS studies of field induced ordering in Ferrofluids

XIII. Int. Conference on Small Angle Scattering

Kyoto, Japan 13. Jul - 13. Jul 2006

Oral

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Russina, M.; Gähler, R.

Time-resolved SANS studies of field induced ordering in Ferrofluids

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten 2006

Hamburg, Germany 04. Oct - 04. Oct 2006

Oral

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Russina, M.; Gähler, R.

Microsecond dynamics of field-induced ordering in magnetic colloids studied by new time-resolved Small Angle Neutron Scattering techniques

Ferrofluide Workshop

Benediktbeuren, Germany 27. Sep - 27. Sep 2006

SF3.Others

Poster

Manke, I.; Kardjilov, N.; Haibel, A.; Strobl, M.; Hilger, A.; Rack, A.; Zabler, S.; Treimer, W.; Banhart, J.

Industrial research at the Application Centre NIXE (Hahn-Meitner-Institut Berlin)

ECNDT-9

Berlin 25. Sep - 29. Sep 2006

SF6.Others

Poster

H. N. Bordallo, W. Kalceff, D.N. Argyriou, M. Barth`es, T. Seydel, C. Fehr, F. Juranyi

Hydrogen in N-Methylacetamide: Positions and dynamics of the hydrogen atoms using neutron scattering

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten
2006

Hamburg 04. Sep - 05. Oct 2006

SF2 - Magnetism

SF2.Novel Mat.

Oral

Argyriou, D.

Charge Localization and near zero in-plane thermal expansion in layered Na_xCoO_2 , $x \sim \frac{1}{2}$

2006 American Physical Society March Meeting

Baltimore USA 13. Mar - 17. Mar 2006

Invited Talk

Argyriou, D.

Jahn-Teller Correlations and Dynamics in Manganites

International Symposium on the Jahn-Teller Effects: Novel Aspects in Orbital Physics and Vibronic Dynamics of Molecules and Crystals

Trieste, Italy 28. Aug - 01. Sep 2006

Invited Talk

Argyriou, D.

Opening the Devil's Flower: Complex Structure and Magnetism in Multiferroic Perovskite Manganites

Self-organized Strongly Correlated Electron Systems

Seillac, France 29. May - 31. May 2006

Invited Talk

Argyriou, D. N.

Opening the devils flower: complex magnetism in multiferroic perovskites manganites

Theoretical and Experimental Magnetism Meeting

Abingdon, UK 03. Aug - 04. Aug 2006

Poster

Britta Bohnenbuck, Jorg Strempfer, Ioannis Zegkinoglou, Nadir Aliouane, Dimitri N. Argyriou, Sven Landsgeissel, Martin v. Zimmermann

Investigation of multiferroic TbMnO_3 and DyMnO_3 in high magnetic fields

German Conference for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities
2006

Hamburg 04. Oct - 06. Oct 2006

Poster

D. Argyriou, O. Prokhnenco, K. Kiefer, C. Milne

Possible evidence for weak charge ordering near half doping in $\text{Na}_{0.46}\text{CoO}_2$

German Conference for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities
2006

Hamburg 03. Oct - 04. Oct 2006

Invited Talk

D. N. Argyriou, O. Prokhnenco, K. Kiefer, and C. J. Milne

Evidence for weak charge ordering above T_N in near half doped $\text{Na}_{0.46}\text{CoO}_2$

First International workshop on the physical properties of lamellar cobaltates

Orsay, France 16. Jul - 20. Jul 2006

Oral

Dimitri Argyriou , L.C. Chapon , C. Milne , O. Prokhnenko , and P.G. Radaelli

Structural and Electronic properties of the Layered NaxCoO₂

DPG-Tagungen

Dresden 27. Mar - 31. Mar 2006

Oral

Dimitri Argyriou, N. Aliouane, J. Strempfer, I. Zegkinoglou, M. v. Zimmermann

Melting of magneto-electric state in TbMnO₃ with c-axis aligned magnetic field

German Conference for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities
2006

Hamburg 04. Oct - 05. Oct 2006

Oral

Harini Barath, Minjung Kim, S.L. Cooper, I. Mahns, M. Ruebhausen, D.N. Argyriou

Investigation of coupling between antiferromagnetic and ferroelectric orders in TbMnO₃ using magnetic field dependent Raman scattering

2006 American Physical Society March Meeting
Baltimore USA 13. Mar - 17. Mar 2006

Oral

Ilka Mahns, M. Bastjan, R. Rauer, G. Neuber, B. Schulz, S. Mueller, A. Rusydi, M. Ruebhausen, D. N. Argyriou, M. Kim, H. Barath, S.L. Cooper

Temperature depending studies of multiferroic TbMnO₃ by spectral ellipsometry and Raman scattering

2006 American Physical Society March Meeting
Balitmore, USA 13. Mar - 17. Mar 2006

Oral

Ilka Mahns, M. Bastjan, R. Rauer, G. Neuber, B. Schulz, S. Mueller, A. Rusydi, M. Ruebhausen, D. N. Argyriou, M. Kim, H. Barath, S.L. Cooper

Resonant soft X-ray scattering from LaMnO₃ and SmMnO₃ Superlattices

2006 American Physical Society March Meeting
Baltimore USA 13. Mar - 17. Mar 2006

Oral

Ilka Mahns, M. Bastjan, R. Rauer, G. Neuber, B. Schulz, S. Mueller, A. Rusydi, M. Ruebhausen, D. N. Argyriou, M. Kim, H. Barath, S.L. Cooper

Resonant soft X-ray scattering from multiferroic TbMnO₃

2006 American Physical Society March Meeting
Balitmore, USA 13. Mar - 17. Mar 2006

Oral

J. Strempfer , N. Aliouane , B. Bohnenbuck , D. N. Argyriou , I. Zegkinoglou , and M. von Zimmermann

Magnetic field induced linear magneto-elastic coupling in multiferroic TbMnO₃

DPG-Tagung

Dresden 27. Mar - 31. Mar 2006

Poster

J.R. Veira , D.N. Argyriou , K. Kiefer , U. Amann , J.-U. Hoffmann , H.N. Bordallo , R. Almairac , Th.

Hangleiter

Investigations on the coupling between multiferroic and structural properties of BaMnF₄

German Conference for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities
2006

Hamburg 04. Oct - 06. Oct 2006

Oral

K. Berggold , T. Lorenz , J. Baier , D. Meier , J. Hemberger , D. Argyriou , A. Vasiliev , and J. Hemberger

Thermal transport in multiferroics

DPG Tagung

Dresden 27. Mar - 31. Mar 2006

Oral

Nadir Aliouane, Dimitri Argyriou, J. Strempfer, I. Zegkinoglou, M. v. Zimmerman

Field induced linear magneto-elastic coupling in multiferroic TbMnO₃

2006 American Physical Society March Meeting

Baltimore, USA 13. Mar - 17. Mar 2006

Oral

Nadir Aliouane, Dimitri Argyriou, and Sven Landsgesell

Field induced incommensurate to commensurate magnetic transition in multiferroic TbMnO₃

DPG-Tagung

27. Mar - 31. Mar 2006

Poster

O Prokhnenko , S. Landsgesell , D. Argyriou , L.C. Chapon

Magnetic Ordering in Multiferroic DyMnO₃

German Conference for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities

2006

Hamburg 04. Oct - 06. Oct 2006

Oral

Prokhnenko, O.; Feyerherm, R.; Dudzik, E.; Landsgesell, S.; Aliouane, N.; Chapon, L.C.; Argyriou, D.N.

Induced Dy spin-order enhancing the ferroelectric polarization in DyMnO₃

5th Workshop on "Orbital Physics and Novel Phenomena in Transition Metal Oxides?

Berlin 11. Oct - 12. Oct 2006

Poster

Sven Landsgesell , Oleksandr Prokhnenko , Nadir Aliouane , Dimitri Argyriou

Evolution of incommensurate magnetic order from A-type antiferromagnetism in Nd_{1-x}Y_xMnO₃

German Conference for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities

2006

Hamburg 04. Oct - 06. Oct 2006

Invited Talk

Tennant, A.

Crystal structures of NaxCoO₂

ISIS-IOP workshop : Theoretical and Experimental Magnetism Meeting

Cosener's House, Abingdon, UK 03. Aug - 04. Aug 2006

SF2.Others

Invited Talk

Holub-Krappe, E.

On the Trail of Magnetic-Field Sense in the Animal Kingdom

Int. Workshop on Magnetism and Synchrotron radiation

Strasbourg, France 06. Nov - 07. Nov 2006

Poster

Prokhnenko, O.; Arnold Z.; Kuchin A.; Ritter C.; Isnard O.; Kamarad J.; Iwasieczko W.; Drulis, H.

MAGNETOSTRUCTURAL PROPERTIES OF Ce₂Fe₁₆MnDy (y = 0,1,2,3) UNDER PRESSURE

International Conference on Magnetism

Kyoto 20. Aug - 25. Aug 2006

Poster

Stahl, B.; Fleissner, G.; Falkenberg, G.; Fleisner, G.; Holub-Krappe, E.

BioXAS wanted: Magnetite and maghemite nanoparticles constitute the basis for iron mineral-based magnetoreception in homing pigeons

13th Int. Conf. on X-ray Absorption Fine Structure

Stanford, CA, USA 09. Jul - 15. Jul 2006

Poster

Stahl, B.; Fleissner, G.; Fleissner, G.; Holub-Krappe, E.

Magnetic Orientation in Birds: Maghemite and Magnetite Particles constitute the basis for iron-mineral-based avian magnetoreception.

Int. Symposium on Scanning Microbeam, Satelite Meeting at the User's Meeting at BESSY

Berlin, Germany 06. Dec - 06. Dec 2006

SF2. Quantum Phenomena

Poster

Notbohm, S. Tennant, D.A.; Lake, B.; Canfield, P.C.; Fielden, J.; Kögerler, P.; Mikeska, H.-J.; Luckmann, C.; Telling, M.T.F

Temperature and Field Effects in the Gapped Quantum Magnet Cu(NO₃)₂·2.5D₂O

International Conference of Magnetism

Kyoto, Japan 20. Aug - 25. Aug 2006

Invited Talk

Tennant, A.

Measuring dynamical correlations in quantum magnets with neutrons

INSTANS?06 Interdisciplinary Statistical and Field Theory Approaches to Nanophysics and Low-Dimensional Systems

Villa Olmo, Lake Como, Italy 16. Jun - 20. Jun 2006

Oral

Tennant, A.; Lake, B.; Notbohm, S.

Exotic quantum phase in the spin-ladder compound CaCu₂O₃

ICM06 International Conference on Magnetism

Kyoto, Japan 21. Aug - 25. Aug 2006

SF2. Thin films

Oral

Andersson, C.; Konishi, T.; Holub-Krappe, E.; Karis, O.; Hunter Dunn, J.; Maletta, H.; Arvanitis, D.

Revising the spin-reorientation in in-situ prepared Au/Co/Au ultra-thin films by means of XAFS

13th Int. Conf. on X-ray Absorption Fine Structure

Stanford, CA, USA 09. Jul - 15. Jul 2006

Oral

Arvanitis, D.; Andersson, C.; Konishi, T.; Holub-Krappe, E.; Karis, O.; Maletta, H.

Magnetization reorientation in Au/Co: in-situ prepared ultrathin films

Frühjahrstagung Festkörperphysik der DPG

Dresden, Germany 27. Mar - 31. Mar 2006

Poster

Hahlin, A.; Holub-Krappe, E.; Maletta, H.; Andersson, C.; Karis, O.; Hunter Dunn, J.; Arvanitis, D.

Novel findings on the temperature driven spin reorientation in Au/Co/Au

13th Int. Conf. on X-ray Absorption Fine Structure

Stanford, CA, USA 09. Jul - 15. Jul 2006

Invited Talk

Holub-Krappe, E.

Soft X-Ray Studies of Spin Reorientation in Thin Au/Co/Au Films

Int. Workshop on Properties of Ultrathin Magnetic Films

Bialowieza, Poland 07. Sep - 09. Sep 2006

Poster

Holub-Krappe, E.; Andersson, C.; Konishi, T.; Karis, O.; Maletta, H.-J.; Arvanitis, D.

Spin Reorientation in Thin Au/Co/Au Films: in-situ XMCD and EXAFS Study

SOLEIL User's Meeting

Saint Aubin/ Gif-sur-Yvette, France 18. Jan - 19. Jan 2006

Poster

Holub-Krappe, E.; Andersson, C.; Konishi, T.; Karis, O.; Maletta, H.; Arvanitis, D.

Magnetization reorientation in Au/Co: In-situ prepared ultra-thin films

International Workshop on Magnetism at SOLEIL

Saint Aubin/ Gif-sur-Yvette, France 16. Jan - 17. Jan 2006

Oral

Holub-Krappe, E.; Hahlin, A.; Maletta, H.; Andersson, C.; Karis, O.; Hunter Dunn, J.; Arvanitis, D.

On the temperature driven reorientation in Au/Co/Au: the influence of the structure

Frühjahrstagung Festkörperphysik der DPG

Dresden, Germany 27. Mar - 31. Mar 2006

Poster

M. Bastjan , A. Rusydi , G. Neuber , S. Singer , M. Ruebhausen , D.N. Argyriou2 , N. Aliouane , M. Kim , H. Barath , S.L. Cooper

Role of the orbital-lattice interaction in multiferroic behavior

German Conference for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities
2006

Hamburg 04. Oct - 05. Oct 2006

SF3.Nanostructures

Oral

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Russina, M.; Gähler, R.

Time-resolved SANS studies (TISANE) of field induced ordering in Ferrofluids

SAS 2006

Kyoto, Japan 09. Jul - 13. Jul 2006

SF6.Others

Poster

B. Frick, J. F. Barthélémy, T. Seydel, D. Bazzoli, M. Thomas, H.N. Bordallo, K. Andersen, P. Courtois, L. Didier, F. Descamps, T. Mary, F. Rey, P. Thomas, P. Lachaume, F. Lapeyre, H. Schober

The ILL Millennium project for the neutron backscattering spectrometer IN16B

ILL MILLENNIUM SYMPOSIUM

Grenoble, Frankreich 27. Apr - 29. Apr 2006

Poster

Bordallo, H.N. , Aldridge, L.P., Desmedt, A.

Water dynamics in micro-pores & interlayer space in cement paste

Workshop 3rd International Workshop on Dynamics in Confinement

Grenoble, France 23. Mar - 26. Mar 2006

Poster

Bordallo, H.N.; Argyriou, D.N.; Strempfer, J.; Barthès, M.; Dénoyer, F.

Negative thermal expansion and conformation changes in the smallest chiral amino acid, Alanine

DPG - German Physical Society

Dresden 27. Mar - 31. Mar 2006

Poster

H. N. Bordallo, N. Jalarvo, N. Aliouane, J. Pieper, M.A. Adams, D.N. Argyriou

Understanding the role of water in the superconductor Na0.28CoO2·1.3H2O using inelastic neutron scattering

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten
2006

Hamburg 04. Oct - 06. Oct 2006

Poster

H. N. Bordallo, W. Kalceff, D.N. Argyriou, M. Barth`es, T. Seydel, C. Fehr, F. Juranyi

Hydrogen in N-Methylacetamide: Positions and dynamics of the hydrogen atoms using neutron scattering

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten
2006

Hamburg 04. Sep - 05. Oct 2006

Poster

H.N. Bordallo, M. R. Johnson and D.N. Argyriou

Exchange and Lattice correlations in La_{2-2x}Sr_{1+2x}Mn₂O₇ evidenced by Inelastic Neutron Scattering (INS) and Density Functional Theory (DFT) calculations

5th Workshop on Orbital Physics and Novel Phenomena in Transition Metal Oxides
Berlin 11. Oct - 12. Oct 2006

SF3 - Materials

SF3.Light weight mat.

Oral

Babscán, N.; Vinod Kumar, G.S.; Murty, B.S.; Banhart, J.

Grain Refiners as Liquid Metal foam Stabilisers

International Conference on Solidification Science and Processing 2006
Jaipur, India 19. Nov - 23. Nov 2006

Oral

Garcia-Moreno, F.; Banhart, J.

Novel PM metal foaming route - without blowing agent

EUFOAM 2006

Potsdam, Germany 02. Jul - 06. Jul 2006

Oral

Hoell, A.; Haug, J.; Tatchev, D.; Haas, S.; Boesecke, P.; Wollgarten, M.; Sahoo, K. L.; Banhart, J.

Element sensitive investigation of phase formation in Al_{94-x}Ni₆La_x (x=5, 7) alloys by ASAXS

Small Angle Scattering 2006 (SAS 2006)

Kyoto, Japan 09. Jul - 13. Jul 2006

Poster

Mukherjee, Manas; Garcia-Moreno, Francisco; Banhart, John

Solidification of Metal Foams

6th European Conference on Foams, Emulsions and Applications (EuFoam 2006)
Potsdam, Germany 02. Jul - 06. Jul 2006

Oral

Mukherjee, Manas; Garcia-Moreno; Banhart, J.

Anomalous behaviour of aluminium foams during solidification

ICSSP 2006

Jaipur, India 19. Nov - 23. Nov 2006

Oral

Sahoo, K.L.; Banhart, J.

Effect of solidification rate and composition on microstructure and nanocrystallization in Al-Ni-La metallic glasses

International Conference on Solidification Science and Processing - ICSSP III

Jaipur, India 20. Nov - 23. Nov 2006

Oral

Shabestari, S.G.; Wanderka, N.; Garcia-Moreno, F.; Seeliger, W.; Banhart, J.

Optimisation of Aluminium Foam Sandwich (AFS) Panel Strength by Different Heat Treatments

ICAA 10

Vancouver, Kanada 09. Jul - 13. Jul 2006

Poster

Wollgarten, M.; Hoell, A.; Haug, J.; Tatchev, D.; Haas, S.; Boesecke, P.; Sahoo, K.L.; Banhart, J.

Investigation of the Early Precipitation Stages in Amorphous Al-Ni-La Alloys by TEM and ASAXS

Int. Microscopy Congress IMC 16, Sapporo

Sapporo, Japan 03. Sep - 08. Sep 2006

SF3.Microstructure

Invited Talk

Abromeit, C.

Phase changes induced by various irradiations

Vortrag zum Abschied von Dr. R. Gotthardt an der EPFL

EPFL Lausanne 09. Jun - 09. Jun 2006

Invited Talk

Abromeit, C.; Lazarev, N.; Gotthardt, R.; Schäublin, R.

Molecular Dynamics Simulation of Swift-Ion-Induced Phase Transformation in a Model NiAl Alloy

E-MRS 2006

Warschau, Polen 04. Sep - 08. Sep 2006

Oral

Chang, C.S.T.; Duggan, B.J.

Annealing behaviour of AA6111 with different initial precipitation states

International Conference on Aluminium

Essen, Germany 21. Sep - 22. Sep 2006

Poster

Del Genovese, D.; Mukherji, D.; Rösler, J.; Kindrachuk, V.; Wanderka, N.; Banhart, J.

Chemistry Modifications of Inconel 706 for Improved Microstructural Stability

8th Liège 2006 Konferenz

Liege, France 18. Sep - 20. Sep 2006

Oral

Griesche, A.; Macht, M.-P.; Frohberg, G.; Chathoth, S.M.; Meyer, A.; Das, S. K.; Horbach, J.

Diffusion in $\text{Al}_{80}\text{Ni}_{20}$ melts: experiments and simulation

TMS 2006

San Antonio, Texas 13. Mar - 17. Mar 2006

Oral

Höring, S.; Wanderka, N.; Neumann, W.; Banhart, J.; Leitner, H.; Clemens, H.

CORRAX - A Ti-free stainless maraging steel investigated by 3 dimensional atom probe

DPG/EPS - Frühjahrstagung 2006

Dresden, Germany 27. Mar - 31. Mar 2006

Oral

Kindrachuk, V.; Wanderka, N.; Banhart, J.; Del Genovese, D.; Rösler, J.

The Re-containing Inconel 706 Alloy: 3DAP Measurements

DPG-Tagung

Dresden, Germany 27. Mar - 31. Mar 2006

Oral

LaGrange, T.; Gotthardt, R.; Abromeit, C.; Klaumünzer, S.; Schumacher, G.

The Influence of Electronic Stopping Interactions on the Microstructural Modification Observed in High Energy Ion Irradiated NiTi Thin Films

Materials Research Society Fall Meeting

Boston, USA 27. Nov - 01. Dec 2006

Invited Talk

Lazarev, N. P.; Abromeit, C.; Schäublin, R.; Gotthardt, R.

MD simulation of heterogeneous martensitic phase transformations in NiAl

ESOMAT 2006

Bochum, Germany 10. Sep - 15. Sep 2006

Oral

Lazarev, N.; Abromeit, C.; Matsumura, S.; Schäublin, R.; Gotthardt, R.

Modeling of Local Order Phase Transformations in Binary Alloys

Materials Research Society Fall Meeting

Boston, USA 27. Nov - 01. Dec 2006

Oral

Matsumura, S.; Hata, S.; Kimura, K.; Takahashi, T.; Abromeit, C.

Time-evolution of Short-Range and Long-Range Ordering in Ni₄Mo Alloys Studied by Advanced Transmission Electron Microscopy and Monte Carlo Simulation

Materials Research Society Fall Meeting

Boston, USA 27. Nov - 01. Dec 2006

Poster

Mechler, S.; Wanderka, N.; Macht, M.-P.; Schubert-Bischoff, P.; Schumacher, G.; Klaumünzer, S.

Swift-Heavy Ion induced amorphization by ion tracks in quasicrystalline Zr-Ti-Ni-Cu

MRS Fall Meeting 2006

Boston, USA 27. Nov - 01. Dec 2006

Oral

Vierke, J.; Balog, M.; Nagy, J.; Simancik, F.; Wollgarten, M.; Banhart, J.

Nanocrystallization in Gas-atomised Al-Ni-La Metallic Glass and its compaction using Equal Channel Angular Pressing

ISMANAM 2006

Warschau, Poland 27. Aug - 31. Aug 2006

Oral

Vierke, J.; Wollgarten, M.; Banhart, J.

Compaction of Amorphous and Partially Crystallised Al-Ni-La Alloys

DPG Tagung

Dresden, Germany 27. Mar - 31. Mar 2006

Poster

Wanderka, N.; Bakai, A.; Abromeit, C.; Isheim, D.; Seidman, D.

Effects of 10 MeV electron irradiation on the precipitate microstructure of a Ni-Mo based Hastelloy studied by transmission electron microscopy and atom-probe tomography based "Hastelloy" alloy after 10 MeV electron irradiation

The Joint 19th International Vacuum Nanoelectronics Conference and 50th International Field Emission

Symposium

Guilin, China 17. Jul - 20. Jul 2006

Invited Talk

Wanderka, N.; Radiguet, B.; Sahoo, K.L.; Banhart, J.

Crystallization Behavior of Al₈₇Ni₅La₇Zr₁ Metallic Glass

Thermec 2006

Vancouver, Kanada 03. Jul - 08. Jul 2006

SF3.Nanostructures

Oral

Heinemann, A.; Wiedenmann, A.; Kammel, M.

SANS signatures of local magnetic colloid structure reordering under external magnetic field variation

SAS 2006

Kyoto, Japan 09. Jul - 13. Jul 2006

Poster

Heinemann, A.; Wiedenmann, A.; Kammel, M.; Pop, L.M.

Separating different types of ordering in magnetic fluids with polarised small-angle neutron scattering

Polarised Neutrons in Condensed Matter Investigation - PNCMI 2006

Berlin, Germany 25. Sep - 28. Sep 2006

Poster

Keiderling, U.; Wiedenmann, A.

Field-dependent relaxation behavior of Co-ferrofluid investigated with stroboscopic time-resolved SANS

SAS 2006

Kyoto, Japan 09. Jul - 13. Jul 2006

Oral

Keiderling, U.; Wiedenmann, A.

Field-dependent relaxation behaviour of Co-ferrofluid investigated with stroboscopic time-resolved SANS

Polarised Neutrons in Condensed Matter Investigations

Berlin, Germany 25. Sep - 28. Sep 2006

Poster

Perroud, O.; Wiedenmann, A.; Kumar, G.; Eckert, J.

Small-angle neutrons scattering study of magnetic domains in Nd-Fe-Co-Al alloys by use of polarized neutrons

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten 2006

Universität Hamburg 04. Oct - 06. Oct 2006

Oral

Perroud, O.; Wiedenmann, A.; Kumar, G.; Eckert, J.; Kohlbrecher, J.

Influence of Nd-nanoparticles on hard magnetic properties of bulk amorphous alloys studied by small-angle neutrons scattering

Nano 2006

Bangalore, Indien 20. Aug - 25. Aug 2006

Invited Talk

Wiedenmann, A.

Polarised Small Angle Neutron Scattering

School of Polarised Neutron Scattering

Berlin, Germany 19. Sep - 22. Sep 2006

Invited Talk

Wiedenmann, A.

Nanostructures as probed by Polarized Small Angle Neutron Scattering

JCNS Symposium and European User Meeting

Jülich, Germany 16. Feb - 16. Feb 2006

Invited Talk

Wiedenmann, A.

Magnetic Nanostructures Investigated by Small Angle Neutron Scattering

VIII School of Neutron Scattering

Santa Margherita di Pula, Italy 25. Sep - 06. Oct 2006

Oral

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Russina, M.; Gähler, R.

Time-resolved SANS studies (TISANE) of field induced ordering in Ferrofluids

SAS 2006

Kyoto, Japan 09. Jul - 13. Jul 2006

Oral

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Russina, M.; Gähler, R.

Microsecond dynamics of field-induced ordering in magnetic colloids studied by new time-resolved Small Angle Neutron Scattering techniques

Ferrofluide Workshop

Benediktbeuren, Germany 27. Sep - 27. Sep 2006

Oral

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Russina, M.; Gähler, R.

Time-resolved SANS studies of field induced ordering in Ferrofluids

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten 2006

Hamburg, Germany 04. Oct - 04. Oct 2006

Oral

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Russina, M.; Gähler, R.

Time-resolved SANS studies of field induced ordering in Ferrofluids

XIII. Int. Conference on Small Angle Scattering

Kyoto, Japan 13. Jul - 13. Jul 2006

Oral

Wiedenmann, A.; Keiderling, U.; Kammel, M.; Heinemann, A.; May, R.P.; Dewhurst, Ch.

Statics and dynamics of field induced ordering in Ferrofluids studied by Polarised Small Angle Neutron Scattering

Nanotech 2006

Boston, USA 07. May - 11. May 2006

SF3.Others

Poster

Manke, I.

Application Centre NIXE at HMI Berlin

Industrieforum (dt. Synchrotron Einrichtungen)

Karlsruhe, Germany 17. Nov - 17. Nov 2006

Poster

Manke, I.; Kardjilov, N.; Haibel, A.; Strobl, M.; Hilger, A.; Rack, A.; Zabler, S.; Treimer, W.; Banhart, J.

Industrial research at the Application Centre NIXE (Hahn-Meitner-Institut Berlin)

ECNDT-9

Berlin 25. Sep - 29. Sep 2006

SF4 - Structure and Dynamics

SF3.Microstructure

Oral

LaGrange, T.; Gotthardt, R.; Abromeit, C.; Klaumünzer, S.; Schumacher, G.

The Influence of Electronic Stopping Interactions on the Microstructural Modification Observed in High Energy Ion Irradiated NiTi Thin Films

Materials Research Society Fall Meeting
Boston, USA 27. Nov - 01. Dec 2006

Poster

Mechler, S.; Wanderka, N.; Macht, M.-P.; Schubert-Bischoff, P.; Schumacher, G.; Klaumünzer, S.

Swift-Heavy Ion induced amorphization by ion tracks in quasicrystalline Zr-Ti-Ni-Cu

MRS Fall Meeting 2006
Boston, USA 27. Nov - 01. Dec 2006

SF4.Dynamics

Poster

Fadanelli, R.C.; Grande, P.L.; and Schiwietz, G.

Improved molecular perturbative convolution approximation model

22nd Int. Conf. on Atomic Collisions in Solids (ICACS22)
Berlin 21. Jul - 26. Jul 2006

Poster

Grande, P.L and Schiwietz, G.

Improved energy-loss formulas for high resolution ion-beam analysis

22nd Int. Conf. on Atomic Collisions in Solids (ICACS22)
Berlin 21. Jul - 26. Jul 2006

Poster

Hentz, A.; Parkinson, G.S.; Quinn, P.D.; Woodruff, D.P.; Grande, P.L.; Bailey, P.; Noakes, T.C.Q.; and Schiwietz, G.

Layer and trajectory-dependent energy loss in 100 keV H⁺ scattering from Cu(111): experiment and theory

22nd Int. Conf. on Atomic Collisions in Solids (ICACS22)
Berlin 21. Jul - 26. Jul 2006

Invited Talk

Klaumünzer, S.

Solid-state physics with high-energy ion beams

21st General Conference of the EPS Condensed Matter Division
Dresden 27. Mar - 31. Mar 2006

Invited Talk

Klaumünzer, S.

Thermal-spike models for ion track physics: a critical examination

Ion-Beam Science: Solved and unsolved problems
Kopenhagen 01. May - 15. May 2006

Invited Talk

Mahnke, H.-E.

Ion-beam induced nano-sized metal clusters in glass

Workshop SFB 418 "Irradiation-Assisted Methods of Formation and Modification of Metal Nanoparticles in Glasses"

MPI Halle 12. Sep - 12. Sep 2006

Oral

Mahnke, H.-E.

Ionenstrahlinduzierte metallische Nanostrukturen in Gläsern

Workshop

HMI Berlin 16. May - 17. May 2006

Oral

Mahnke, H.-E.; Schattat, B.; Zizak, I.; Schubert-Bischoff, P.; Novakovic, N.; Koteski, V.

Ion-beam induced nano-sized metal clusters in glass

DPG Frühjahrstagung

Dresden 27. Mar - 31. Mar 2006

Poster

Pezzi, R.P.; Grande, P.L.; Schiwietz, G.; Copel, M.; and Baumvol, I.J.R.

Energy loss at zero impact parameter for high resolution depth profiling using medium energy ion scattering

22nd Int. Conf. on Atomic Collisions in Solids (ICACS22)

Berlin 21. Jul - 26. Jul 2006

Oral

Roth, M.; Staufenbiel, F.; Czerski, K.; Schiwietz, G.; Grande, P.L.

Angular distributions of Auger electrons: New insights into the ion-track dynamics? (selected oral contribution)

22nd Int. Conf. on Atomic Collisions in Solids (ICACS22)

Berlin, Germany 21. Jul - 26. Jul 2006

Invited Talk

Schiwietz, G.

Auger-electron emission in heavy-ion - surface collisions (invited progress report)

16th International Workshop on Inelastic Ion-Surface Collisions (IISC-16)

Hernstein, Austria 17. Sep - 22. Sep 2006

Poster

Silva, M.R.; Barbosa, L.G.; Grande, P.L.; Roth, M.; Schattat, B.; Schiwietz, G.; and Papaléo, R.M.

Cratering on polymers in the electronic stopping regime: dependence on the primary ion charge state

22nd Int. Conf. on Atomic Collisions in Solids (ICACS22)

Berlin 21. Jul - 26. Jul 2006

SF4.Structures

Poster

Birkholz, M.; Zizak, I.; Darowski, N.; Wallat, I.; Zaumseil, P.; Kittler, M.; Heyn, M.P.

GID and GISAXS characterization of biomolecules on semiconductors.

BEESY Users' Meeting 2006

Berlin 07. Dec - 08. Dec 2006

Oral

Darowski, N., Zizak I.; Schumacher, G.

Röntgendiffraktionsanalyse des Amorphisierungsverhaltens von einkristallinem InP nach Bestrahlung mit 350 MeV Au Ionen.

Workshop 'Ionenstrahlphysik und -technologie' des Leibniz-Institutes für Oberflächenmodifizierung IOM
Leipzig 11. Apr - 12. Apr 2006

Poster

Koteski, V.; Zhou, H.; Farangis, B.; Hofmann, D.M.; Meyer, B.K.; Mahnke, H.-E.

Local structure around Mn in Mn containing ZnO nanocrystals

E -MRS 2006 Fall meeting, Symposium F

Warschau 03. Sep - 08. Sep 2006

Poster

Radisavljevic, I.; Ivanovic, N.; Novakovic, N.; Romcevic, N.; Mahnke, H.-E.

Local structures in Pb_{1-x}MnxTe systems

EXRS 2006, European Conference on X-Ray Spectrometry

Paris 19. Jun - 23. Jun 2006

Poster

Radisavljevic, I.; Ivanovic, N.; Novakovic, N.; Romcevic, N.; Mahnke, H.-E.

EXAFS Studies of Ga Doped Pb_{1-x}MnxTe

6th International Conference of the Balkan Physical Union (BPU-6)

Istanbul 22. Aug - 26. Aug 2006

Oral

Schumacher, G.; Darowski, N.; Zizak, I; Klingelhöffer, H; Neumann, W.

Temperature Dependence of Lattice Distortion in Strongly Creep-deformed Single Crystal Superalloy SC16

International Conference on Processing & manufacturing of advanced materials
Vancouver, Canada 02. Jul - 08. Jul 2006

Oral

Schumacher, G.; Darowski, N.; Zizak, I; Klingelhöffer, H; Neumann, W.

Lattice Distortion in Creep-deformed Single Crystal Superalloy SC16 Measured by means of X-Ray Diffraction

8th Biennial Conference on High Resolution X-Ray Diffraction and Imaging (XTOP2006)

Baden-Baden 18. Sep - 22. Sep 2006

SF5 - Theory

SF5.Biosystems

Oral

Falcke, M.

Reading the pattern in living cells - the Physics of Calcium signalling

Frühjahrstagung des AK Festkörperphysik der DPG

Dresden 27. Mar - 30. Mar 2006

Invited Talk

Falcke, M.

Oscillation Mechanism of Intracellular Calcium Dynamics

Joint SIAM-SMB conference on the life sciences 2006

Raleigh, USA 31. Jul - 04. Aug 2006

Invited Talk

Falcke, M.

Spatial aspects of intracellular Ca²⁺ signalling

Gordon Research Conference Theoretical Biology & Biomathematics

Tilton, USA 04. Jun - 09. Jun 2006

Oral

Falcke, M.

By chance or by the clock: How do concentrations in cells oscillate?

Frühjahrstagung des AK Festkörperphysik der DPG

Dresden 27. Mar - 31. Mar 2006

Invited Talk

Falcke, M.

Mechanism of IP₃ induced intracellular Ca²⁺ oscillations

Conference of the European Study Group on Cardiovascular Oscillations 2006

Jena 15. May - 17. May 2006

Oral

Straube, R.

About a common origin of bursting oscillations and (quasi-)periodic behavior on a 2-torus

Harz-Seminar 2006

Hahnenklee (b Goslar) 23. Feb - 26. Feb 2006

Oral

Straube, R.; Flockerzi, D; Hauser, M. J. B.

2-tori and bursting oscillations close to a generalized Hopf bifurcation in the fast subsystem

Frühjahrstagung des Dachverbands Dynamik und Statistische Physik der Deutsch-Physikalischen Gesellschaft

Dresden 27. Mar - 31. Mar 2006

Oral

Thul, R., Falcke, M.

The emergence of Ca²⁺ puffs as intracellular escape process

DPG Frühjahrstagung

Dresden 26. Mar - 31. Mar 2006

SF5. Soft Matter

Invited Talk

Höfling, F.

Understanding the Physical Properties of the Cell Cytoskeleton

IBM Workshop

Forschungszentrum Jülich 22. Feb - 23. Feb 2006

Oral

Höfling, F.

Localization Transition of the 3D Lorentz Model and Continuum Percolation

DPG - spring meeting of the Division Condensed Matter

Dresden 26. Mar - 31. Mar 2006

Poster

Höfling, F.; Franosch, T.; Frey, E.

Transport of a Needle in a Random Environment

Bio-Systems Conference, Berlin 2006

Berlin 26. Jun - 29. Jun 2006

Poster

Höfling, F.; Franosch, T.; Frey, E.

Transport of a Needle in a Random Environment

DPG - spring meeting of the Division Condensed Matter

Dresden 27. Mar - 31. Mar 2006

Poster

Höfling, F.; Franosch, T.; Frey, E.

Localization Transition of the 3D Lorentz Model and Continuum Percolation

X. International Workshop on Disordered Systems

Molveno (Italien) 18. Mar - 21. Mar 2006

Poster

Höfling, F.; Franosch, T.; Frey, E.

Transport of a Needle in a Random Environment

2nd International Workshop on Dynamics in Viscous Liquids

Mainz 09. Apr - 12. Apr 2006

SF6 - Trace Elements

SF6.Analysis

Invited Talk

Behne, D.; Alber, D.; Kyriakopoulos, A.

Selenstatus und Selenverteilung in geweben und Monitormaterialien nach Langzeitsupplementation mit Selen-Hefe

Gemeinsame Herbsttagung HMI - GSF

Berlin, Deutschland 06. Dec - 07. Dec 2006

Poster

Bertelsmann, H., Behne, D., Kyriakopoulos, A.

Investigation on the biological role of the selenoprotein sperm nuclei glutathione peroxidase during spermiogenesis.

Macro and Trace Elements, 23. Workshop 2006

Jena, Deutschland 27. Sep - 27. Sep 2006

Invited Talk

Bertelsmann, H.; Sieme, H.; Kühbacher, M.; Weseloh, G.; Kyriakopoulos, A.

Role of the trace elements in modulating reactive oxygen species in the male reproductive system: a study on equine semen

Gemeinsame Herbsttagung HMI - GSF

Berlin, Deutschland 06. Dec - 07. Dec 2006

Poster

Graebert, A.; Bräuer, A.; Savaskan, N.; Kyriakopoulos, A.

Selenocysteinlyase - Lokalisation und erste Funktionsstudien in HepG2

Gemeinsame Herbsttagung HMI - GSF

Berlin, 06. Dec - 07. Dec 2006

Invited Talk

Grbavac, I.; Weda, N.; Wolf, C.; Plotnikov, A.; Alber, D.; Kühbacher, M.; Behne, D.; Kyriakopoulos, A.

Identification of metal-containing proteins in the prostate of the rat

Gemeinsame Herbsttagung HMI - GSF

Berlin, Deutschland 06. Dec - 07. Dec 2006

Poster

Grbavac, I.; Wolf, C.; Kühbacher, M.; Behne, D.; Kyriakopoulos, A.

Distribution of manganese and selenium in the cytosoles and sections of the rat prostate

Macro and Trace Elements, 23 Workshop 2006

Jena, Deutschland 27. Sep - 27. Sep 2006

Oral

Grbavac, I.; Wolf, C.; Kühbacher, M.; Behne, D.; Kyriakopoulos, A.

Distribution of manganese and selenium in the cytosoles and sections of the rat prostate

23rd Workshop on Macro and Trace Elements

Jena, Germany 27. Sep - 27. Sep 2006

Poster

Kühbacher, M.; Falkenberg, G.; Grünwald, B.; Fischer, J.; Donath, T.; Beckmann, F.; Behne, D.; Kyriakopoulos, A.

2D and 3D Neuroimaging with X-Rays

HASYLAB Users Meeting

Hamburg 27. Jan - 27. Jan 2006

Poster

Kühbacher, M.; Falkenberg, G.; Grünwald, B.; Schade, U.; Bartel, J.; Grbavac, I.; Bukalis, G.; Alber, D.; Behne, D.; Kyriakopoulos, A.

Metalloid- und Metalloproteine - mit Neutronen und Photonen sichtbar gemacht

Gemeinsame Herbsttagung HMI - GSF

Berlin, Deutschland 06. Dec - 07. Dec 2006

Invited Talk

Kühbacher, M.; Falkenberg, G.; Grünwald, B.; Zabler, S.; Haibel, A.; Behne, D.; Kyriakopoulos, A.

Auf den Spuren von Spurenelementen in großen und kleinen Gehirnen

Gemeinsame Herbsttagung HMI - GSF

Berlin, Deutschland 06. Dec - 07. Dec 2006

Oral

Kyriakopoulos, A.; Grbavac, I.; Kühbacher, M.

Selenoproteom of the Prostate Gland

12 International Congress on Hormonal Steroids and Hormones and Cancer

Athens, Greece 13. Sep - 16. Sep 2006

Invited Talk

Plotnikov, A.; Wolf, C.; Bertelsmann, H.; Kyriakopoulos, A.

Laserablation ICP Massenspektrometrie in der Bioanalytik - Möglichkeiten, Probleme und Perspektiven

Gemeinsame Herbsttagung HMI - GSF

Berlin, Deutschland 06. Dec - 07. Dec 2006

Invited Talk

Schwarz, A.; Ortmann, S.; Wolf, C.; Kühne, R.; Clauss, M.

Particle retention time in pygmy hippo and collared peccary compared to cattle - preliminary results

Gemeinsame Herbsttagung HMI - GSF

Berlin, Deutschland 06. Dec - 07. Dec 2006

Oral

Wenda, N.; Grbavac, I.; Wolf, C.; Kühbacher, M.; Alber, D.; Bukalis, G.; Behne, D.; Kyriakopoulos, A.

Einfluss des Selenmangels auf die Expression verschiedener Prostata-Proteine

Dialogveranstaltung mit Chemie-Industrie und Universitäten

Berlin, Germany 28. Jun - 28. Jun 2006

Poster

Wolf, C.; Wenda, N.

Speziation von Metalloproteinen: Veränderungen der Probe während der Messung

Gemeinsame Herbsttagung HMI - GSF

Berlin, Deutschland 06. Dec - 07. Dec 2006

SF6.Clinical app.

Oral

Wolf, C.; Schwarz, A.; Plotnikov, A.; Kühbacher, M.; Alber, D.

Probenangepasste Elementanalytik: unterschiedliche Verfahren zur Spurenelementbestimmung in biologischen Proben

16. Jahrestreffen der Interessengemeinschaft Atomspektroskopie Berlin (IGAS)

WISTA Adlershof, Berlin 08. Nov - 08. Nov 2006

SF6.NAA

Poster

Alber, D.; Bukalis, G.; Kizilkaya, H.; Stanik, B.

Neutronenaktivierungsanalyse (NAA) und Tracerproduktion am Forschungsreaktor BER II

Gemeinsame Herbsttagung HMI - GSF

Berlin, Deutschland 06. Dec - 07. Dec 2006

SF6.Others

Poster

B. Frick, J. F. Barthélémy, T. Seydel, D. Bazzoli, M. Thomas, H.N. Bordallo, K. Andersen, P. Courtois, L.

Didier, F. Descamps, T. Mary, F. Rey, P. Thomas, P. Lachaume, F. Lapeyre, H. Schober

The ILL Millennium project for the neutron backscattering spectrometer IN16B

ILL MILLENNIUM SYMPOSIUM

Grenoble, Frankreich 27. Apr - 29. Apr 2006

Poster

Bordallo, H.N. , Aldridge, L.P., Desmedt, A.

Water dynamics in micro-pores & interlayer space in cement paste

Workshop 3rd International Workshop on Dynamics in Confinement

Grenoble, France 23. Mar - 26. Mar 2006

Poster

Bordallo, H.N.; Argyriou, D.N.;Stempfer, J.; Barthès, M.; Dénoyer, F.

Negative thermal expansion and conformation changes in the smallest chiral amino acid, Alanine

DPG - German Physical Society

Dresden 27. Mar - 31. Mar 2006

Poster

Bordallo, H.N.; Frick, B.; Seydel, T; Schober, H.

Simulation results on the backscattering spectrometer IN16B

ILL MILLENNIUM SYMPOSIUM

Grenoble - France 27. Apr - 29. Apr 2006

Poster

H. N. Bordallo

Remarkable physical properties triggered by dynamical Jahn-Teller effect in the chiral amino-acid Alanine

International Symposium on the Jahn-Teller Effects: Novel Aspects in Orbital Physics and Vibronic Dynamics of Molecules and Crystals

Trieste, Italy 28. Aug - 31. Aug 2006

Poster

H. N. Bordallo, D.N. Argyriou, J. Stempfer, C. Fehr, M. Barth`es, F. D`enoyer, J.-U. Hoffmann

Extraordinary Negative Thermal Expansion in the Smallest Chiral Amino Acid, Alanine.

Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten 2006

Hamburg 04. Oct - 06. Oct 2006

Poster

H. N. Bordallo, N. Jalarvo, N. Aliouane, J. Pieper, M.A. Adams, D.N. Argyriou

Understanding the role of water in the superconductor Na_{0.28}CoO₂·1.3H₂O using inelastic neutron scattering

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten 2006

Hamburg 04. Oct - 06. Oct 2006

Poster

H. N. Bordallo, W. Kalceff, D.N. Argyriou, M. Barth`es, T. Seydel, C. Fehr, F. Juranyi

Hydrogen in N-Methylacetamide: Positions and dynamics of the hydrogen atoms using neutron scattering

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten
2006

Hamburg 04. Sep - 05. Oct 2006

Poster

H.N. Bordallo, M. R. Johnson and D.N. Argyriou

Exchange and Lattice correlations in La_{2-2x}Sr_{1+2x}Mn₂O₇ evidenced by Inelastic Neutron Scattering (INS) and Density Functional Theory (DFT) calculations

5th Workshop on Orbital Physics and Novel Phenomena in Transition Metal Oxides
Berlin 11. Oct - 12. Oct 2006

SF6. Proteins

Poster

Bartz, T.; Wolf, C.; Alber, D.; Zimmer, A.; Kyriakopoulos, A.

Verteilung von Spurenelementen in Geweben des gastro-intestinalen Trakts der Ratte

Gemeinsame Herbsttagung HMI - GSF

Berlin, Deutschland 06. Dec - 07. Dec 2006

Oral

Bertelsmann, H.; Behne, D.; Kyriakopoulos, A.

Investigation on the biological role of the selenoprotein sperm nuclei glutathione peroxidase during spermiogenesis

23rd Workshop on Macro and Trace Elements

Jena, Germany 27. Sep - 27. Sep 2006

Poster

Bukalis, K.; Alber, D.; Behne, D.; Kyriakopoulos, A.

The effects of selenium diet on expression of selenoproteins in the respiratory tract of the rat

Cell Signalling World, Signal Transduction Pathways as therapeutic targets

Luxemburg 25. Jan - 28. Jan 2006

Poster

Bukalis, K.; Behne, D.; Kyriakopoulos, A.

The biological role of arsenic in the rat. Combined studies using tracer technique and biochemical methods

Gemeinsame Herbsttagung HMI - GSF

Berlin, Deutschland 06. Dec - 07. Dec 2006

Poster

Bukalis, K.; Wolf, C.; Behne, D.; Kyriakopoulos, A.

Studies on the selenoproteome in the cultured cells of lung and trachea by gel electrophoretic techniques

15th International Symposium on Capillary Electrophoresis Techniques

Paris, Frankreich 26. Aug - 28. Aug 2006

Invited Talk

Dalla Puppa, L.

Untersuchung der Effekte von Selen und Selenoproteinen bei der Aktivierung von Mikroglia gegen oxidativen Stress

Gemeinsame Herbsttagung HMI - GSF

Berlin, Deutschland 06. Dec - 07. Dec 2006

Poster

Grbavac, I.; Wenda, N.; Wolf, C.; Kühbacher, M.; Behne, D.; Kyriakopoulos, A.

Prevention of Prostate Cancer by Redox Processes

12th international Congress on the Hormonal Steroids and Hormones and Cancer
Athens, Greece 13. Sep - 16. Sep 2006

Oral

Kyriakopoulos, A.

Trace Element and Trace Element Proteins and the Respiratory Tract Infections

12th ICID
Lisboa, Portugal 15. Jun - 18. Jun 2006

Poster

Kyriakopoulos, A.

Expression of Selenocysteine-containing Proteins in the Heart of the Rat investigated by 2D-Electrophoresis and MALDI-MS

15th international Symposium on Capillary Electroseparation Techniques
Paris, France 28. Aug - 30. Aug 2007

Oral

Kyriakopoulos, A.;

Influence of Selenocystein-containing Proteins in the redox processes and antioxidant system

31st FEBS Congress
Istanbul, Turkey 24. Jun - 29. Jun 2006

Poster

Kyriakopoulos, A.; Wolf, C.; Bartz, T.; Bartel, J.; Graebert, A.

Verteilung selenhaltiger Proteine in Geweben mit glatter oder quergestreifter Muskulatur der Ratte

Gemeinsame Herbsttagung HMI - GSF
Berlin, Deutschland 06. Dec - 07. Dec 2006

Invited Talk

Savaskan. N.; Hahnen, E.; Kühbacher, M.; Behne, D.; Kyriakopoulos, A.; Eyüpoglu

A role for the Micronutrient selenium in glioma cell growth and brain invasion

Gemeinsame Herbsttagung HMI - GSF
Berlin, Deutschland 06. Dec - 07. Dec 2006

SF7 - Measurement instrumentation

SF7.Detector

Poster

Bobkov V.V.; Gokov S.P.; Gritsyna V.V.; Gritsyna V.T.; Shevchenko D.I.; Alimov S.S.

Mechanisms of formation of sputtered particles in excited states at Ar+ ion bombardment of oxide targets

ICACS - 22: International Conference on Atomic Collisions in Solids
Berlin 21. Jul - 26. Jul 2006

Poster

Bobkov V.V.; Onishchenko A.V.; Tishchenko L.P.; Peregon T.I.; Kovtunenko Yu.I.; Starovoitov R.I.; Alimov S.S.

Investigation of lattice damage and ion-implanted deuterium retention in tungsten films

ICACS - 22: International Conference on Atomic Collisions in Solids
Berlin 21. Jul - 26. Jul 2006

Poster

Melnykov, V.; Litvinov, V.; Koppe, V.; Bobkov V.; Alimov S.

Some aspects of SIMS investigations of organic materials with use of glycerol matrix

ICACS - 22: International Conference on Atomic Collisions in Solids

Berlin 21. Jul - 26. Jul 2006

SF7.Others

Oral

Wheldon, C.; Kokalova, Tz.; Thummerer, S.

Octupole-deformed molecular configurations in $^{21}\text{Ne}^*$

Spring Meeting of the German Physical Society

Munich, Germany 20. Mar - 24. Mar 2006

SF7.Q3D

Invited Talk

Avrigeanu, M.; von Oertzen, W.

On the α -particle semi-microscopic optical potential at low energies

International Symposium on Nuclear Astrophysics - Nuclei in the Cosmos - IX CERN

Geneva, Switzerland 25. Jun - 30. Jun 2006

Invited Talk

Blasevic, A.; Bohlen, H. G.; von Oertzen, W.

A microscopic description of oxygen ions penetrating a carbon foil

ICACS 2006, 22nd International Conference on Atomic Collisions in Solids

Berlin, Germany 21. Jul - 26. Jul 2006

Poster

Blazevic, A.; Günther, M.; Korosty, S.; Rodriguez Prieto, G.; Rosmej, O.; Hoffmann, D.H.H.; Heßling, T.; Knobloch-Mass, R.; Pelka, A.; Pirzadeh, P.; Roth, M.; Schaumann, G.; Schollmeier, M.; Wamers, F.; Bohlen, H.G.; Oertzen, W. von

Ion beam interaction with a dense, laser produced plasma

ICACS - 22: International Conference on Atomic Collisions in Solids

Berlin 21. Jul - 26. Jul 2006

Poster

Blazevic, A.; Hoffmann, D.H.H.; Bohlen, H.G.; Oertzen, W. von

A microscopic description of oxygen ions penetrating a carbon foil

ICACS - 22: International Conference on Atomic Collisions in Solids

21. Jul - 26. Jul 2006

Oral

Bohlen, H. G.; Dorsch, T.; Kokalova, Tz.; von Oertzen, W.; Schulz, Ch.; Wheldon, C.

New Results on ^{10}Be from Multi-Nucleon Transfer Reactions

IXth International Conference on Nucleus-Nucleus Collisions 2006.

Rio de Janeiro, Brazil 28. Aug - 01. Sep 2006

Oral

Mahgoup, M.; Bildstein, V.; Bohlen, H. G.; Dorsch, T.; Faestermann, R.; Gernhäuser, R.; Kröll, Th.; Krücken, R.; Kokalova, Tz.; Maier, L.; von Oertzen, W.; Wheldon, C.

Two-neutron transfer reaction using a Tritium target.

Frühjahrstagung der DPG 2006

München, Germany 20. Mar - 24. Mar 2006

Oral

Zherebchevskii, V.; von Oertzen, W.; Kamanin, D.; Thummerer, S.; Bohlen, H.G.; Gebauer, B.; Kokalova, Tz.; Schulz, Ch.; Wheldon, C.

Binary fission and Coplanar Ternary Cluster Decay from Hyper-deformed States in ^{60}Zn .

Frühjahrstagung der DPG 2006, Hadronen und Kerne

Munich, GER 20. Mar - 24. Mar 2006

SFN1 - Magnetism and Superconductivity of Quantum Materials

SF.N1

Poster

Guidi, T.

Inelastic neutron scattering study of the spin dynamics and quantum fluctuations in heterometallic antiferromagnetic molecular rings

ECMM ?06 European Conference on Molecular Magnetism

Tomar, Portugal 10. Oct - 15. Oct 2006

Poster

Guidi, T.

Inelastic neutron scattering study of the spin dynamics and quantum fluctuations in heterometallic antiferromagnetic molecular rings

ECMM ?06 European Conference on Molecular Magnetism

Tomar, Portugal 10. Oct - 15. Oct 2006

Invited Talk

Lake, B.

Field-Induced Antiferromagnetism in the Cuprate High-Temperature Superconductor $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$.

American Physical Society March Meeting

Baltimore, USA 13. Mar - 17. Mar 2006

Invited Talk

Lake, B.

Three-Dimensionality of Field-Induced Magnetism in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$

8th International Conference on Materials and Mechanisms of Superconductivity

Dresden, Germany 09. Jul - 14. Jul 2006

Oral

Lake, B.

Magnetism in Spin Ladders

International Conference on Magnetism

Kyoto, Japan 20. Aug - 25. Aug 2006

Poster

Lake, B.

Magnetic Excitation Spectrum of the Pseudo-Spin-Ladder Compound CaCu_2O_3

Symposium to Celebrate the Retirement of Roger Cowley Organised by Oxford University

Oxford, England, UK 30. Jun - 01. Jul 2006

Invited Talk

Lake, B.

Magnetism in Spin Ladders

ISIS-IOP workshop Theoretical and Experimental Magnetism Meeting

Abingdon, UK 03. Aug - 04. Aug 2006

SF2. Quantum Phenomena

Poster

Notbohm, S.; Tennant, D.A.; Lake, B.; Canfield, P.C.; Fielden, J.; Kögerler, P.; Mikeska, H.-J.; Luckmann, C.; Telling, M.T.F.

Temperature and Field Effects in the Gapped Quantum Magnet Cu(NO₃)₂·2.5D₂O

International Conference of Magnetism

Kyoto, Japan 20. Aug - 25. Aug 2006

Oral

Tennant, A.; Lake, B.; Notbohm, S.

Exotic quantum phase in the spin-ladder compound CaCu₂O₃

ICM06 International Conference on Magnetism

Kyoto, Japan 21. Aug - 25. Aug 2006

SE - Solar Energy Research

SE1 - Silicon photovoltaics

SE1.Cells

Oral

Boehme, C.; Behrends, J.; Maydell, K. v.; Schmidt, M.; Lips, K.

The sensitive electrical detection of spin-coherence with pulsed electrically detected magnetic resonance

2006 APS March Meeting

Baltimore, MD, USA 13. Mar - 17. Mar 2006

Invited Talk

Boehme, C.; Lips, K.

Ultrasensitive defect spectroscopy with coherent, pulsed optically and electrically detected magnetic resonance techniques

International Conference on Optical and Optoelectronic Properties of Materials and Applications (ICOOPMA)
Darwin, Australia 17. Jul - 21. Jul 2006

Poster

Dogan, P.; Gorka, B.; Fenske, F.; Sieber, I.; Gall, S.

Low-Temperature Epitaxy of Silicon Using Electron Beam Evaporation

EPVSEC 21

Dresden, Germany 04. Sep - 08. Sep 2006

Poster

Ekanayake, G.; Quinn, T.; Reehal, H.S.; Rau, B.; Gall, S.

Large-grained polycrystalline silicon films on glass by epitaxial thickening of seed layers prepared by aluminium induced crystallisation

21st European Photovoltaic Solar Energy Conference

Dresden, Germany 04. Sep - 08. Sep 2006

Oral

Friedrich, F.; Nickel, N. H.

Ramanspektroskopie an Phononen im Zinkoxid

Deutsche Physikerinnentagung 2006

Berlin 02. Nov - 05. Nov 2006

Oral

Friedrich, F.; Sieber, I.; Nickel, N. H.

Raman investigations on the disorder activation of silent phonon modes in zinc oxide

EMRS Spring Meeting 2006

Nizza 29. May - 02. Jun 2006

Poster

Friedrich, F.; Sieber, I.; Nickel, N. H.

Influence of antimony doping on the properties of pulsed laser deposited zinc oxide thin-films

4th International Workshop on ZnO and Related Materials

Giessen, Germany 03. Oct - 06. Oct 2006

Oral

Friedrich, F.; Sieber, I.; Nickel, N.H.

A comparative study of the substrate influence on the structure of pulsed laser-deposited ZnO thin films

DPG Frühjahrstagung 2006

Dresden 26. Mar - 31. Mar 2006

Invited Talk

Fuhs, W.

Photovoltaic Energy Conversion - Challenges in Material Research and Device Development

XXII Panhellenic Conference on Solid State Physics and Material Science

Patras, Greece 23. Sep - 01. Oct 2006

Poster

Gall, S.; Berghold, J.; Conrad, E.; Dogan, P.; Fenske, F.; Gorka, B.; Lips, K.; Muske, M.; Petter, K.; Rau, B.; Schneider, J.; Sieber, I.

Large-grained polycrystalline silicon on glass for thin-film solar cells

21st European Photovoltaic Solar Energy Conference

Dresden, Germany 04. Sep - 08. Sep 2006

Oral

Gluba, M.; Friedrich, F.; Lips, K.; Nickel, N. H.

Hyperfine splitting in hydrogenated ZnO measured by electron spin resonance

Spring-Meeting of the German Physical Society

Dresden 27. Mar - 31. Mar 2006

Poster

Gluba, M.A.; Friedrich, F.; Lips, K.; Nickel, N.H.

ESR investigations on hydrogen-induced hyperfine splitting features in ZnO

E-MRS spring meeting 2006

Nice, France 29. May - 02. Jun 2006

Poster

Gluba, M.A.; Friedrich, F.; Nickel, N.H.

ESR investigations on hydrogen-induced activation of Mn impurities in ZnO

4th International ZnO-Workshop 2006

Gießen 03. Oct - 06. Oct 2006

Poster

Gorka, B.; Dogan, P.; Fenske, F.; Sieber, I.; Gall, S.

Low-temperature epitaxy of silicon by electron beam evaporation

E-MRS Spring Meeting 2006

Nice, France 29. May - 02. Jun 2006

Invited Talk

Lips, K.

Crystalline Silicon Thin-Film Solar Cells on Glass Substrates

Photovoltaics - the Third Generation and the Way to it

Berlin 04. May - 05. May 2006

Invited Talk

Lips, K.

Defects in silicon devices investigated with pulsed electrically detected magnetic resonance

48th Rocky Mountain Conference on Analytical Chemistry

Breckenridge, Colorado, USA 23. Jul - 27. Jul 2006

Invited Talk

Lips, K.

Analytik für die Photovoltaik

Industrietag HMI

Hahn-Meitner-Institut 27. Nov - 27. Nov 2006

Invited Talk

Lips, K.

Electrical detection of coherent spin information with the Bruker Elexsys E580 spectrometer

2nd EPR German User's Meeting

Rheinstetten 06. Oct - 06. Oct 2006

Invited Talk

Lips, K., Boehme, C.

The electrical detection of coherent spin states in silicon

Workshop

Sanremo, Italy 06. Mar - 08. Mar 2006

Poster

Nickel, N.

Direct observation of the ionisation and neutralization of hydrogen shallow donors in zinc oxide

4th International Workshop on ZnO and Related Materials

Gießen, Germany 03. Oct - 06. Oct 2006

Oral

Nickel, N. H.

Properties of hydrogen in ZnO

ZnO-Rundgespräch,

Bad Honnef 18. Jun - 20. Jun 2006

Invited Talk

Nickel, N. H.

Hydrogen transport properties in zinc oxide

E-MRS

Nice, France 28. May - 02. Jun 2006

Oral

Nickel, N. H.

Optical quenching of hydrogen shallow donors in zinc oxide

MRS Fall Meeting

Boston, USA 27. Nov - 01. Dec 2006

Invited Talk

Nickel, N. H.

Role of hydrogen in silicon thin film materials

International 21st Century COE Symposium on Atomistic Fabrication Technology

Osaka, Japan 19. Oct - 20. Oct 2006

Invited Talk

Nickel, N. H.

Hydrogen transport in doped and undoped disordered silicon

International Workshop on Computational Electronics

Vienna, Austria 23. May - 27. May 2006

Poster

Rau, B.; Conrad, E.; Gall, S.

Influence of post-deposition treatments of absorber layers on poly-Si thin-film solar cells on glass grown by ECRCVD

21st European Photovoltaic Solar Energy Conference

Dresden, Germany 04. Sep - 08. Sep 2006

Oral

Rau, B.; Schneider, J.; Conrad, E.; Gall, S.

Influence of defect post-deposition treatments on poly-Si thin-film solar cells on glass grown by ECRCVD

MRS Spring Meeting

San Francisco, CA, USA 17. Apr - 21. Apr 2006

Invited Talk

Rech, B.

Silicon based solar cells

Summer school of European Centre of Excellence in PV Materials and Devices

Tallinn, Estonia 21. Aug - 25. Aug 2006

Invited Talk

Rech, B.; Gall, S.; Beyer, W.

Dünnenschichttechnologie mit Silizium

3. Jenaer Technologietag „Beschichtungen für die Optik und Optoelektronik“

Jena, Germany, 04.10.2006

Oral

Repmann, T.; Wieder, S.; Klein, S.; Müller, J.; Kilper, T.; Stiebig, H.; Rech, B.

Production equipment for amorphous and microcrystalline silicon solar cell manufacturing

21st European Photovoltaic Solar Energy Conference and Exhibition "EUPVSEC"

Dresden, Germany 04. Sep - 08. Sep 2006

Oral

Saleh, R.; Nickel, N. H.

Boron doped polycrystalline silicon produced by stepp-by-step XeCl excimer laser crystallization

MRS Spring Meeting

San Francisco, USA 17. Apr - 21. Apr 2006

Oral

Sarikov, A.; Schneider, J.; Muske, M.; Gall, S.

A model of preferential (100) crystal orientation if Si grains grown by aluminium-induced layer-exchange process

E-MRS 2006 Spring Meeting

Nice, France 29. May - 02. Jun 2006

Oral

Scheller, L.-P.; Weizman, M.; Nickel, N. H.; Yan, B.

Transport properties of laser-crystallized polycrystalline silicon-germanium thin films

MRS Fall Meeting, Boston, USA, 27.11.-1.12.2006

Boston, USA 27. Nov - 01. Dec 2006

Oral

Weizman, M.; Nickel, N. H.; Sieber, I.; Yan, B.

Substrate influence on the appearance of segregation in laser-crystallized polycrystalline SiGe thin films

Materials Research Society

San Francisco, CA USA 17. Apr - 21. Apr 2006

Oral

Weizman, M.; Nickel, N. H.; Sieber, I.; Yan, B.

Phase segregation in laser-crystallized polycrystalline SiGe thin films

DPG-Frühjahrstagung

Dresden 26. Mar - 31. Mar 2006

Oral

Weizman, M.; Terukova, E.; Nickel, N. H.; Yan, B.

Investigation of dangling bond defects in laser-crystallized polycrystalline SiGe thin films

2006 MRS Fall Meeting

Boston, MA ,USA 27. Nov - 01. Dec 2006

Oral

Yang F., Roodenko K., Hinrichs K., Rappich J.

In-situ PL and PV investigation during etch-back of anodic oxides on Si(111).

PCWES 2006

Saarbrücken 19. Jun - 21. Jun 2006

SE1.Hetero

Oral

Angermann, H., Rappich, J.

Surface states and recombination loss on wet-chemically passivated Si studied by Surface Photovoltage (SPV) and Photoluminescence (PL)

Eight International Symposium on Ultra Clean Processing of Semiconductor Surfaces UCPSS 2006
Antwerpen | Belgium 17. Sep - 20. Sep 2006

Poster

Angermann, H., Sieber, I., Hübener, K., Hauschild, J.

Passivation of defects on atomically flat and structured silicon substrates

Tag der Chemie

TU Berlin 28. Jun - 28. Jun 2006

Poster

Angermann, H.; Rappich, J.; Maydell, K. v. ; Conrad, E.; Sieber, I.; Schaffarzik, D.; and Schmidt; M.

Wet-chemical passivation of interface defects in a-Si:H/c-Si heterojunction solar cells with randomly distributed pyramids

21st European Photovoltaic Solar Energy Conference and Exhibition -
Dresden 04. Sep - 08. Sep 2006

Invited Talk

Angermann, H.; Rappich, J.; Sieber, I.; Hübener, K.; Polte, J.; Hauschild, J.

Wet-chemical passivation of atomically flat and structured silicon substrates

5th International Conference Solid State Surfaces and Interfaces SSSI 2006.
Bratislava, Slovakia 19. Nov - 24. Nov 2006

Oral

Behrends, J.; Böhme, C.; Maydell, K. v.; Schmidt, M.; Lips, K.

Investigation of spin-dependent transport in a-Si:H/c-Si solar cells with pulsed electrically detected magnetic resonance

DPG Frühjahrstagung des AKF und Condensed Matter Division der EPS
Dresden 27. Mar - 31. Mar 2006

Poster

Conrad, E.; Maydell K. v.; Angermann, H.; Schubert, C.; Schmidt, M.

Optimization of interface properties in a-Si:H/c-Si heterojunction solar cells

4th World Conference on Photovoltaic Energy Conversion
Hawai, USA 08. May - 12. May 2006

Oral

Korte, L.; Laades, A.; Schmidt, M.

Electronic properties of a-Si:H/c-Si heterojunctions

MRS 2006 Spring Meeting
San Francisco, CA, USA 17. Apr - 21. Apr 2006

Oral

Korte, L.; Maydell, K. v.; Conrad, E.; Angermann, H.; Schubert, C.; Stangl, R.; Schmidt, M.

Development and optimization of a-Si:H/c-Si heterojunction solar cells completely processed at low temperatures

21st European Photovoltaic Solar Energy Conference
Dresden 04. Sep - 09. Sep 2006

Oral

Lips, K.; Boehme, C.; Behrends, J.; Stangl, R.; v. Maydell, K.; Schmidt, M.

Electrical detection of coherent electron spin states at the a-Si/c-Si interface

18th Workshop on Quantum Solar Energy Conversion - QUANTSOL 2006
Rauris, Austria 19. Mar - 24. Mar 2006

Invited Talk

Maydell von, K.; Conrad, E.; Laades, A.; Stangl, R.; Schmidt, M.

a-Si:H/c-Si Heterojunction - Solar Cells

Silicon Forest Workshop

Falkau Schwarzwald 19. Feb - 22. Feb 2006

Poster

Rappich J., Fahoume M., Sieber I.

Influence of electrochemically deposited ZnO(OH) layers on the non radiative recombination and band bending of p-Si surfaces

E-MRS 2006 - European Materials Research Society

Nice, France 29. May - 02. Jun 2006

Oral

Rappich J., Guell A.G., Merson A., Roodenko K., Sieber I., Schulze S., Sanz F., Gensch M., Hinrichs K., Dittrich Th.

Engineering and passivation of Si surfaces by electrochemical organic layer deposition

E-MRS 2006 - European Materials Research Society

Nice, France 29. May - 02. Jun 2006

Oral

Roodenko K., Gensch M., Rappich J., Hunger R., Esser N., Hinrichs K.

Infrared ellipsometric studies of electrochemically grafted thin organic layers

ESIS 2006 - The new European Seminar on Infrared Spectroscopy

Lyon Villeurbanne, France 04. Apr - 06. Apr 2006

Oral

Roodenko K., Rappich J., Hunger R., Gensch M., Guell A.G., Dittrich Th., Merson A., Shapira Y., Esser N., Hinrichs K.

Application of infrared spectroscopic ellipsometry in studies of electrochemically grafted thin organic monolayers

DPG Tagung

Dresden 27. Mar - 31. Mar 2006

Invited Talk

Schmidt, M.; Angermann, H.; Conrad, E.; Korte, E.; Laades, A.; v. Maydell, K.; Schubert, Ch.; Stangl, R

Physical and Technological Aspects of a-Si:H/c-Si Hetero-Junction Solar Cells

2006 IEEE 4th World Conference on Photovoltaic Energy Conversion

Waikoloa, Hawaii (USA) 08. May - 12. May 2006

Invited Talk

Schmidt, M.; Korte, L.; Laades, A.; Stangl, R.; Schubert, C.; Angermann, H.; Conrad, E.; Maydell, K. v.

Physical aspects of a-Si:H/c-Si hetero-junction solar cells

EMRS-2006

Nizza/Frankreich 29. May - 02. Jun 2006

Oral

Schmidt, M.; Korte, L.; Laades, A.; Schöpke, A

Electronic states in extremely thin a-Si:H layers as part of a-Si:H/c-Si heterostructures

QUANTSOL-2006

Rauris/Austria 19. Mar - 25. Mar 2006

Poster

Stangl, R.; Angermann, H.; Conrad, E.; Korte, L.; Laades, A.; Maydell, K.v.; Schaffarzik, D.; Schmidt, M.

Characterisation of amorphous/crystalline silicon solar cells

EPVSEC-21,

Dresden, Germany 04. Sep - 08. Sep 2006

Poster

Stangl, R.; Kriegel, M.; Schmidt, M.

AFORS-HET, Version 2.2, a numerical computer program for simulation of heterojunction solar cells and measurements

WCPEC-4,

Waikoloa, Hawaii, USA 07. May - 12. May 2006

Oral

Weiser, G.; Kasitsyna-Baranovski, S.; Stangl, R.

Band-edge luminescence of crystalline silicon heterojunction solar cells

ICOOPMA 2006, International Conference on Optical and Optoelectronic Properties of Materials and Applications

Darwin, Australia 15. Jul - 22. Jul 2006

SE1.Others

Poster

Doka, S.; Hofstetter, J.; Lehmann, S.; Rusu, M.; Meeder, A.; Arushanov, E.; Fabre, N.; Fiechter, S.; Lips, K.; Schedel-Niedrig, Th.; Lux-Steiner, M. Ch.

Ge Implantation in CuGaSe₂ studied by Electron Spin Resonance

E-MRS

Nice, France 29. May - 02. Jun 2006

SE2 - Heterogeneous material systems

SE1.Hetero

Oral

Rappich J., Guell A.G., Merson A., Roodenko K., Sieber I., Schulze S., Sanz F., Gensch M., Hinrichs K., Dittrich Th.

Engineering and passivation of Si surfaces by electrochemical organic layer deposition

E-MRS 2006 - European Materials Research Society

Nice, France 29. May - 02. Jun 2006

Oral

Roodenko K., Rappich J., Hunger R., Gensch M., Guell A.G., Dittrich Th., Merson A., Shapira Y., Esser N., Hinrichs K.

Application of infrared spectroscopic ellipsometry in studies of electrochemically grafted thin organic monolayers

DPG Tagung

Dresden 27. Mar - 31. Mar 2006

SE1.Others

Poster

Doka, S.; Hofstetter, J.; Lehmann, S.; Rusu, M.; Meeder, A.; Arushanov, E.; Fabre, N.; Fiechter, S.; Lips, K.; Schedel-Niedrig, Th.; Lux-Steiner, M. Ch.

Ge Implantation in CuGaSe₂ studied by Electron Spin Resonance

E-MRS

Nice, France 29. May - 02. Jun 2006

SE2.Analytics

Oral

Bär, M.; Klaer, J.; Ennaoui, A.; Lehmann, S.; Grimm, A.; Lauermann, I.; Loreck, Ch.; Sokoll, St.; Schock, H.-W.; Fischer, Ch.-H.; Lux-Steiner, M.C.; Weinhardt, L.; Fuchs, O.; Umbach, E.; Jung, C.; Heske, C.

FORMATION OF THE BUFFER/CuInS₂ INTERFACE

2006 IEEE 4th World Conference on Photovoltaic Energy Conversion

Waikoloa, Hawaii, USA 07. May - 12. May 2006

Poster

Caballero, A...R.

CGS-THIN FILMS SOLAR CELLS ON TRANSPARENT BACK CONTACT

2006 IEEE 4th World Conference on Photovoltaic Energy Conversion, Waikoloa, Hawaii, May 2006

Waikoloa, Hawaii, USA 08. May - 12. May 2006

Poster

Caballero, A...R.

Comparison of bilayer and three-stage coevaporation process for CuGaSe₂ thin films

E-MRS Spring Meeting 2006, Nice, France, 29 May-2 June 2006

Nice, France 29. May - 02. Jun 2006

Oral

Ennaoui, A.; Bär, M.; Rusu, M.; Klenk, R.; Klaer, J.; Kropp, T.; Sáez-Araoz, R.; Schock, H.-W.; Lux-Steiner, M.C.

Highly Efficient CuInS₂-based solar cell devices with an optimized Cd-free window structure

21st EU Solar Energy Photovoltaic Conference and Exhibition

Dresden, Germany 04. Sep - 08. Sep 2006

Poster

Lauermann I, Mönig H, Camus C, Grimm A, Pistor P, Sokoll S, Lehmann S, Puttnins S, Schock H W, Kaufmann C, Körber P, Münchenberg T, Kropp T, Saez R, Ennaoui A, Lux-Steiner M Ch, Fischer Ch-H, Jung C, Bär M

XES of chalcopyrite solar cell components in the CISSY end-station In-situ measurements and depth profiling of layered films

Bessy Nutzertreffen 2006

Berlin 07. Dec - 08. Dec 2006

Oral

Lauermann, I.; Loreck, Ch.; Visbeck, S.; Niesen, T. P.; Mönig, H; Lux-Steiner, M. Ch.; Fischer, Ch.

Cu-ACCUMULATION AT THE INTERFACE SPUTTER-(ZnMg)O/Cu(InGa)(S,Se)2 - A KEY TO**UNDERSTANDING THE NEED FOR BUFFER LAYERS?**

E-MRS Spring Meeting

Nizza 29. May - 02. Jun 2006

Oral

Loreck, Ch.; Lauermann, I.; Grimm, A.; Klenk, R.; Bär, M.; Lehmann, S.; Sokoll, S.; Lux-Steiner, M. Ch.; Erfurth, F.; Weinhardt, L.; Heske, C.; Visbeck, S.; Niesen, T. P.; Jung, Ch.; Gudat, W.; Fischer, Ch.-H.

INTERFACE CHEMISTRY BETWEEN THE SPUTTER-(Zn,Mg)O BUFFER AND THE Cu(In,Ga)(S,Se) ABSORBER

21st European Photovoltaic Solar energy Conference and Exhibition

Dresden 04. Sep - 08. Sep 2006

Oral

S. Sadewasser, G. Villanueva and J.A. Plaza

Diseño de voladizos para trabajar en modos altos de oscilación en microscopios de fuerza atómica

V. Congreso Español de Fuerzas y Túnel 2006

Murcia, Spain 20. Sep - 22. Sep 2006

Invited Talk

Sadewasser, S.

Surface potential of chalcopyrite films measured by KPFM

15th International Conference on Ternary and Multinary Compounds

Kyoto, Japan 06. Mar - 10. Mar 2006

Oral

Sadewasser, S., G. Villanueva, J.A. Plaza

Cantilevers for atomic force microscopy imaging at higher modes of oscillation

International Conference on Nanoscience and Technology ICN&T 2006

Basel, Switzerland 30. Jul - 04. Aug 2006

SE2.Chemistry

Oral

Allsop, N.; Camus, C.; Gledhill, S.; Mertesacker, B.; Drescher, L.; Niesen, T.P.; Lux-Steiner, M.C.; Fischer, C.H.;

Cd-free indium sulfide buffer layers for chalcopyrite solar cells by the scalable in-line Spray-ILGAR process

21st European Photovoltaic Solar Energy Conference

Dresden 04. Sep - 08. Sep 2006

Invited Talk

Fischer, C.-H.

ILGAR (Ion Layer Gas Reaction) - a versatile low-cost method for the deposition of high quality thin semiconductor and insulator layers

The 49th SVC ANNUAL TECHNICAL CONFERENCE

Washington DC 22. Apr - 27. Apr 2006

SE2.Concepts

Poster

Fostiropoulos, K.; Mete, T.; Steitz, R.; Lauermann, I.; Fischer, C.-H.; Lux-Steiner, M. C.

x-ray analytical methods for ultra-thin organic films

EUPVSEC 2006

Dresden 04. Sep - 08. Sep 2006

Poster

Huebener, K.; Scheloske, M. ; Hauschild, J.; Harneit, W.; Zehl, G.; Fiechter, S.

AFM investigation of the formation of one-dimensional structures of C60 shuttlecocks on HOPG

20th IWEPNM: Molecular Nanostructures

Kirchberg, Austria 04. Mar - 11. Mar 2006

Oral

Mainz, R.; Klenk, R.

Ga incorporation into CuInS₂ solar cell absorbers in fast sulfurization processes

DPG Tagung

Dresden 27. Mar - 31. Mar 2006

Poster

Mainz, R.; Klenk, R.; Lux-Steiner, M. Ch.

Sulfurisation of gallium-containing metallic precursors analysed in-situ

E-MRS, IUMRS ICEM 2006, Spring Meeting

Nizza, 29. May - 02. Jun 2006

Poster

Naydenov, B.; Spudat, Ch.; Scheloske, M.; Suess, H.I.; Hulliger, J.; Harneit, W.

N@C₆₀ and N@C₇₀ oriented in a single-crystalline matrix

20th IWEPM: Molecular Nanostructures

Kirchberg, Austria 04. Mar - 11. Mar 2006

Oral

Rusu, M.; Strotmann, J.; Vogel, M.; Lux-Steiner, M.Ch.; Fostiropoulos, K.

Efficiency-limiting factors in copper-phtalocyanine:C₆₀ bulk heterojunction organic solar cells

21st EU Solar Energy Photovoltaic Conference and Exhibition

Dresden, Germany 04. Sep - 08. Sep 2006

Oral

Rusu, M.; Wiesner, S.; Mete, T.; Blei, H.; Meyer, N.; Heuken, M.; Lux-Steiner, M.Ch.; Fostiropoulos, K.

Organic donor, acceptor and buffer layers of small molecules prepared by OVPD technique for photovoltaics

E-MRS 2006

Nice, France 29. May - 02. Jun 2006

Poster

Schaefer, S.; Huebener, K.; Harneit, W.; Fostioropoulos, K.; Boehme, C.; Lips, K.

Pulsed electrically detected magnetic resonance on C₆₀ thin films

20th IWEPM: Molecular Nanostructures

Kirchberg, Austria 04. Mar - 11. Mar 2006

Poster

Schoenfeld, R. S.; Harneit, W.; Paech, M.

Pulsed and cw EPR studies on hydrogen atoms encaged in octasilsesquioxane molecules

20th IWEPM: Molecular Nanostructures

Kirchberg, Austria 04. Mar - 11. Mar 2006

SE2.Contacts

Poster

Grimm, A.; Klenk, R.; Lux-Steiner, M.-Ch.; Visbeck, S.

Bulk and interface properties of (Zn,Mg)O buffer layers sputtered in hydrogen-containing atmosphere

E-MRS - IUMRS - ICEM 06 Acropolis Congress Center NICE (France) :: May 29 - June 2, 2006

Nice, France 29. May - 02. Jun 2006

Poster

Theodoropoulou, S.; Papadimitriou, S.; Doka, S.; Schedel-Niedrig, Th.; Lux-Steiner, M. Ch.

Structural properties of Ge doped CuGaSe₂ films studied by Raman and Photoluminescence Spectroscopy

E-MRS Spring Meeting 2006

Nice, France 29. May - 02. Jun 2006

SE2.Integration

Oral

Kaufmann, C.A.; Neisser, A.; Unold, Th.; Klenk, R.; Schock, H.W.; Kessler, F.; Kniese, R.; Herrmann, D.;

Powalla, M.; Kroon, M.; Oomen, G.; Slootweg, D.

Testing of flexible Cu(In,Ga)Se₂ based thin film solar cells in view of space applications

21st European Photovoltaic Solar Energy Conference and Exhibition

Dresden, Germany 04. Sep - 08. Sep 2006

Oral

Klaer, J.; Klenk, R.; Schock, H.W.; Schmid, D.; Eisele, W.; Hinze, J.; Luck, I.; v. Klopmann, C.; Meeder, A.; Röhle, U.; Meyer, N.

Progress in mini-modules from a CuInS₂ baseline process

21st European Photovoltaic Solar Energy Conference and Exhibition

Dresden, Germany 04. Sep - 08. Sep 2006

Invited Talk

Klenk, R.; Schock, H.-W.; Ellmer, K.

Herstellung von Halbleiterschichten aus multinären Chalkopyritverbindungen

Workshop: Verfahren für die Großflächenbeschichtung mit Halbleitermaterialien

Wörlitz/Sachsen Anhalt 17. Oct - 18. Oct 2006

Poster

Köble, Ch.; Klaer, J.; Klenk, R.; Lux-Steiner, M.Ch.

Stability of CuInS₂ Module Test Structures Under Reverse Bias Stress

21st European Photovoltaic Solar Energy Conference and Exhibition

Dresden, Germany 04. Sep - 08. Sep 2006

Oral

Schock, H.W.; Klenk, R.; Preu, R.; Springer, J.; Schmidt, J.; Beyer, W.

Photovoltaik - Forschung und Verfahrensentwicklung im Zeichen der Nachhaltigkeit

Forschungsverbund Sonnenenergie Jahrestagung 2006

Berlin, Germany 21. Sep - 22. Sep 2006

Oral

Unold, Th.; Enzenhofer, T.; Kaufmann, C.A.; Klenk, R.; Neisser, A.; Sakurai, K.; Schock, H.W.

Analysis of defects in coevaporated high-efficiency Cu(In,Ga)Se₂ solar cells

4th World Conf. Photovoltaic Energy Conversion

Waikoloa, Hawaii, USA 07. May - 12. May 2006

SE2.Semico

Oral

Augustin, S.; Siebentritt, S.; Papathanasiou, N.

Ellipsometric Photoluminescence on CuGaSe₂ - Defects

DPG Frühjahrstagung

Dresden 27. Mar - 31. Mar 2006

Oral

Eisenbarth, T., Siebentritt, S., Albert, J., Schubert-Bischoff, P., Sieber, I., Lux-Steiner, M.

Influence of grain boundaries on electrical and structural properties of chalcopyrites

DPG-Tagung Dresden 2006

Dresden 27. Mar - 31. Mar 2006

Oral

Fuertes Marrón, D., Lehmann, S.; Lux-Steiner, M.Ch.

Photovoltaic applications of Ga-rich CuGaxSey thin-film absorbers

E-MRS Spring Meeting 2006

Nice, France 29. May - 02. Jun 2006

Poster

Kaigawa, R.; Ohyama, A.; Wada, T.; Klenk, R.

Electric properties of Cu-poor and Cu-rich Cu(In,Ga)S₂ films after O₂-annealing

Int. Conf. Ternary And Multinary Compounds. ICTMC 15

Kyoto 06. Mar - 10. Mar 2006

Poster

Kaigawa, R.; Ohyama, A.; Wada, T.; Klenk, R.

Electrical properties of homogeneous Cu(In,Ga)S₂ films with varied gallium content

EMRS spring meeting, Nice, France

Nice, France 29. May - 02. Jun 2006

Poster

Lehmann, S.; Fuertes-Marron, D.; Bär, M.; Lauermann, I.; Fischer, Ch.-H.; Schedel-Niedrig, Th.; Lux-Steiner, M. Ch.

CuGaSe₂-related defect compound thin films grown by chemical close-spaced vapour transport - a structural and compositional study

E-MRS Spring Meeting 2006

Nice, France 29. May - 02. Jun 2006

Oral

Schedel-Niedrig, Th.

Material properties and application issues of CuGaSe₂ thin films grown by novel chemical transport technique

European Society for Quantum Solar Energy Conversion, 18th Workshop 2006

Rauris, Austria 20. Mar - 24. Mar 2006

Oral

Siebentritt, S.

A S₃ grain boundary in an epitaxial chalcopyrite film

Spring Meeting of the European Materials Research Society

Nizza 29. May - 02. Jun 2006

Invited Talk

Siebentritt, S.

Defects in Semiconductors

Gordon-Konferenz

New London, New Hampshire, U.S.A. 02. Jul - 07. Jul 2006

Oral

Wimmer, M; Siebentritt, S.; Leendertz, C.; Eisenbarth, T.

Influence of grain boundaries on electric transport in chalcopyrites

DPG Frühjahrstagung 2006

Dresden 26. Mar - 31. Mar 2006

SE3.Baseline

Oral

Kaufmann, C.A.; Neisser, A.; Unold, T.; Klenk, R.; Schock, H.-W.; Kessler, F.; Kniese, R.; Herrmann, D.; Powalla, M.; Kroon, M.; Oomen, G.; Slootweg, D.

Testing of flexible Cu(In,Ga)Se₂ based, thin film solar cells in view of space applications

21st European Photovoltaic Solar Energy Conference

Dresden, Germany 04. Sep - 08. Sep 2006

Poster

Kaufmann, C.A.; Unold, T.; Abou-Ras, D.; Bundesmann, J.; Neisser, A.; Klenk, R.; Scheer, R.; Sakurai, K.; Schock, H.-W.

INVESTIGATION OF COEVAPORATED Cu(In,Ga)Se₂ THIN FILMS IN HIGHLY EFFICIENT SOLAR CELL DEVICES

E-MRS Spring Meeting 2006

Nice, France 29. May - 02. Jun 2006

SE3 - Technology

SE2.Analytics

Oral

Bär, M.; Klaer, J.; Ennaoui, A.; Lehmann, S.; Grimm, A.; Lauermann, I.; Loreck, Ch.; Sokoll, St.; Schock, H.-W.; Fischer, Ch.-H.; Lux-Steiner, M.C.; Weinhardt, L.; Fuchs, O.; Umbach, E.; Jung, C.; Heske, C.

FORMATION OF THE BUFFER/CuInS₂ INTERFACE

2006 IEEE 4th World Conference on Photovoltaic Energy Conversion

Waikoloa, Hawaii, USA 07. May - 12. May 2006

Poster

Caballero, A...R.

CGS-THIN FILMS SOLAR CELLS ON TRANSPARENT BACK CONTACT

2006 IEEE 4th World Conference on Photovoltaic Energy Conversion, Waikoloa, Hawaii, May 2006

Waikoloa, Hawaii, USA 08. May - 12. May 2006

Poster

Caballero, A...R.

Comparison of bilayer and three-stage coevaporation process for CuGaSe₂ thin films

E-MRS Spring Meeting 2006, Nice, France, 29 May-2 June 2006

Nice, France 29. May - 02. Jun 2006

Poster

Lauermann I, Mönig H, Camus C, Grimm A, Pistor P, Sokoll S, Lehmann S, Puttnins S, Schock H W, Kaufmann C, Körber P , Münchenberg T, Kropp T, Saez R, Ennaoui A, Lux-Steiner M Ch , Fischer Ch-H, Jung C, Bär M

XES of chalcopyrite solar cell components in the CISSY end-station In-situ measurements and depth profiling of layered films

Bessy Nutzertreffen 2006

Berlin 07. Dec - 08. Dec 2006

SE2.Integration

Oral

Klaer, J.; Klenk, R.; Schock, H.W.; Schmid, D.; Eisele, W.; Hinze, J.; Luck, I.; v. Klopmann, C.; Meeder, A.; Rühle, U.; Meyer, N.

Progress in mini-modules from a CuInS₂ baseline process

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Klenk, R.; Schock, H.-W.; Ellmer, K.

Herstellung von Halbleiterschichten aus multinären Chalkopyritverbindungen

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Poster

Köble, Ch.; Klaer, J.; Klenk, R.; Lux-Steiner, M.Ch.

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Oral

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Photovoltaik - Forschung und Verfahrensentwicklung im Zeichen der Nachhaltigkeit

Forschungsverbund Sonnenenergie Jahrestagung 2006

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Oral

Unold, Th.; Enzenhofer, T.; Kaufmann, C.A.; Klenk, R.; Neisser, A.; Sakurai, K.; Schock, H.W.

Analysis of defects in coevaporated high-efficiency Cu(In,Ga)Se₂ solar cells

4th World Conf. Photovoltaic Energy Conversion

Waikoloa, Hawaii, USA 07. May - 12. May 2006

SE3.Baseline**Oral**

Kaufmann, C.A.; Neisser, A.; Unold, T.; Klenk, R.; Schock, H.-W.; Kessler, F.; Kniese, R.; Herrmann, D.; Powalla, M.; Kroon, M.; Oomen, G.; Slootweg, D.

Testing of flexible Cu(In,Ga)Se₂ based, thin film solar cells in view of space applications

21st European Photovoltaic Solar Energy Conference

Dresden, Germany 04. Sep - 08. Sep 2006

Poster

Kaufmann, C.A.; Unold, T.; Abou-Ras, D.; Bundesmann, J.; Neisser, A.; Klenk, R.; Scheer, R.; Sakurai, K.; Schock, H.-W.

INVESTIGATION OF COEVAPORATED Cu(In,Ga)Se₂ THIN FILMS IN HIGHLY EFFICIENT SOLAR CELL DEVICES

E-MRS Spring Meeting 2006

Nice, France 29. May - 02. Jun 2006

Oral

Klaer J.; Klenk R.; Abou-Ras D.; Scheer R.; Schock H.W.; Schmid D.; Eisele W.; Hinze J.; Luck I.; Klopmann C.v.; Meeder A.; Rühle U.; Meyer N.

Progress in Mini-Modules from a CuInS₂ baseline process

21st European Photovoltaic Solar Energy Conference

Dresden 04. Sep - 08. Sep 2006

Invited Talk

Schock, H.-W.

Materialwissenschaftliche Randbedingungen für hoeffziente Chalkopyritsolarzellen

ZSW - Kolloquium

02. Feb - 02. Feb 2006

Invited Talk

Schock, H.-W.

Dünnsschichtsolarzellen aus Chalkopyrithalbleitern - strukturelle Aspekte und neue Entwicklungen

Kolloquium an der Universität Leipzig

Leipzig 06. Jul - 06. Jul 2006

Invited Talk

Schock, H.-W.

Chalkogenid Verbindungshalbleiter für die Photovoltaik, Entwicklungsstand und materialwissenschaftliche Gesichtspunkte

Kolloquium an der Universität Salzburg

Salzburg 12. Oct - 12. Oct 2006

Invited Talk

Schock, H.-W.

Dünnschicht-Photovoltaik

Photovoltaik Modultechnik

Köln 29. Nov - 30. Nov 2006

Invited Talk

Schock, H.-W.

Photovoltaik - Forschung und Verfahrensentwicklung im Zeichen der Nachhaltigkeit

FVS-Jahrestagung

Berlin 27. Feb - 27. Feb 2006

SE3.Control

Oral

Abou-Ras, D.; Nichterwitz, M.; Kaufmann, C.A.; Bundesmann, J.; Schock, H.W.;
First results from electron-backscatter diffraction measurements on cross-sections of Cu(In,Ga)Se₂ thin-film solar absorbers

Oxford Instruments HKL User Meeting
Hindsgavl Castle, Denmark 04. Dec - 06. Dec 2006

SE3.Others

Invited Talk

Schorr, S.

Structural aspects of adamantine like multinary chalcogenides

Spring Meeting of the EMRS (European Materials Research Society)
Nizza 29. May - 02. Jun 2006

SE4 - Dynamics of interfacial reactions

SE4.Cells

Oral

Hannappel, T.

Interfacial aspects of III-V solar cells

Mid-term Evaluation SE
HMI 03. Apr - 03. Apr 2006

Invited Talk

Hannappel, T.; McMahon, W.E.; Batyrev, Bork, T.; Olson, J.M.; Zhang, S.B.

Stress relieving `5-7-5? line defects on MOCVD-prepared As/Si (100): An STM, RDS, and theoretical study

13th International Conference on Metal Organic Vapor Phase Epitaxy
Miyazaki, Japan 22. May - 26. May 2006

Oral

McMahon, W.E.; Batyrev, I.G.; Hannappel, T.; Olson, J.M.; Zhang, S.B.

Stress relieving 5-7-5 line defects on As/Si (100): An STM and theoretical study

33rd Conference on the Physics and chemistry of Semiconductor Interfaces (PCSI)
Cocoa Beach, FL, USA 15. Jan - 19. Jan 2006

Oral

Schimper, H.-J.; Seidel, U.; Bloeck, U.; Schwarzbürg, K.; McMahon, W.E., Batyrev, I.G.; Olson, J.M.; Zhang, S.B.; Hannappel, T.

Basic considerations, growth and interfacial issues around III-V high-efficiency solar cells

18 th Workshop on Quantum Solar Energy Conversion
Rauris, Österreich 19. Mar - 24. Mar 2006

Oral

Seidel, U.; Sagol, E.; Bloeck, U.; Schwarzbürg, K.; Hannappel, T.

Grenzflächenuntersuchungen an einer InGaAs/GaAsSb-Tunneldiode für eine III-V-Tandemsolarzelle auf InP(100)

21. DGKK - Arbeitskreistreffen Epitaxie von III-V- Halbleitern
Ulm 07. Dec - 08. Dec 2006

Oral

Seidel, U.; Schimper, H.-J.; Bloeck, U.; Schwarzbürg, K.; Willig, F.; Hannappel, T.

InP-based tandem solar cell with low band gaps

Frühjahrstagung der DPG
Dresden 27. Mar - 31. Mar 2006

Poster

Seidel, U.; Schimper, H.-J.; Bloeck, U.; Schwarzbürg, K.; Willig, F.; Hannappel, T.

III-V materials for multi-junction solar cells on the lattice constant of InP

Frühjahrstagung der DPG

Dresden 27. Mar - 31. Mar 2006

Oral

Seidel, U.; Schimper, H.-J.; Kollonitsch, Z.; Bloeck, U.; Sagol, E.; Schwarzbürg, K.; Willig, F.; Hannappel, T.

InP-based tandem solar cell with low band gaps

13th International Conference on Metal Organic Vapor Phase Epitaxy

Miyazaki, Japan 22. May - 26. May 2006

Oral

Seidel, U.; Schimper, H.-J.; Sagol, E.; Bloeck, U.; Schwarzbürg, K.; Hannappel, T.

InGaAs/GaAsSb tunnel junction employed in a low band gap tandem solar cell

21st European Photovoltaic Solar Energy Conference

Dresden 04. Sep - 08. Sep 2006

SE4.Dynamics

Oral

Eichberger, R.; Gundlach, L.; Ernststorfer, R.; Felber, S.; Willig, F.

Electron transfer dynamics of perylene derivatives attached to TiO₂ measured with femtosecond transient absorption and two photon photoelectron emission

Fourth international meeting on Photodynamics

Havana, Cuba 06. Feb - 10. Feb 2006

Oral

Neubauer, A.; Gundlach, L.; Socaciu-Siebert, L.; Szarko, J.; Ernststorfer, R.; Felber, S.; Morbach, G.; Eichberger, R.; Willig, F.

Structural influence of the dye on the dynamics of ultrafast heterogeneous electron transfer in a dye/semiconductor system

AMOP-Frühjahrstagung der Deutschen Physikalischen Gesellschaft

Frankfurt 13. Mar - 17. Mar 2006

Oral

Neubauer, A.; Gundlach, L.; Szarko, J.; Socaciu-Siebert, L.; Eichberger, R.; Morbach, G.; Willig, F.

Comparison of two different mechanisms for light-induced electron injection from dye-molecules into semiconductors

Deutsche Physikerinnentagung

Berlin 02. Nov - 05. Nov 2006

Oral

Schwarzbürg, K.; Ellmer, K.; Kunst, M.; Tornow, J.

Evaluation of ZnO nanorods as a substrate for composite solar cells

QUANTSOL 2006 Winter workshop

Rauris, Salzburg, Österreich 19. Mar - 25. Mar 2006

Oral

Socaciu-Siebert, L.; Neubauer, A.; Gundlach, L.; Szarko, J.; Ernststorfer, R.; Cherkouk, Ch.; Morbach, G.; Eichberger, R.; Willig, F.

Dynamics of electron transfer through a chromophore/semiconductor interface

AMOP-Frühjahrstagung der Deutschen Physikalischen Gesellschaft

Frankfurt 13. Mar - 17. Mar 2006

SE4.Others

Invited Talk

Janata, E.

Instrumentation for pulse radiolysis and laser flash photolysis

Workshop on Radiation and Photochemistry

Homi Bhabha Center for Science Education, D.B.Mumbai, Indien 02. Jan - 03. Jan 2006

Invited Talk

Janata, E.

Pulse radiolysis facility ELBENA. UV absorption measurements

Pune University Workshop on Radiation and Photochemistry (PUWORP 2006)

Pune, Indien 10. Jan - 11. Jan 2006

Invited Talk

Janata, E.

UV absorption measurements at the pulse radiolysis facility ELBENA

TSRP 2006 Trombay Symposium on Radiation and Photochemistry, Bhabha Atomic Research Centre

Mumbai, Indien 04. Jan - 09. Jan 2006

Invited Talk

Janata, E.

UV absorption measurements at the pulse radiolysis facility ELBENA

11th TIHANY SYMPOSIUM ON RADIATION CHEMISTRY

Eger, Ungarn 26. Aug - 31. Aug 2006

Poster

Janata, E.

Studying chemical processes by pulse radiolysis

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten

2006 (SNI2006)

Hamburg 04. Oct - 06. Oct 2006

Oral

Tornow, J.; Schwarzbürg, K.; Kunst, M.; Ellmer, K.; Bloeck, U.; Michalczik, U.; Willig, F.; Foell, H.

ZnO-nanorods as new type of electrode for dye-sensitized solar cells

E-MRS Spring Meeting 2006

Nizza, Frankreich 29. May - 02. Jun 2006

Poster

Tornow, Julian; Schwarzbürg, K.

Electrical Response of Wet Chemically Grown ZnO Nanorods for Photovoltaic Application

MRS Fall Meeting 2006

Boston, USA 27. Nov - 01. Dec 2006

SE5 - Solar energy

SE2.Concepts

Poster

Huebener, K.; Scheloske, M. ; Hauschild, J.; Harneit, W.; Zehl, G.; Fiechter, S.

AFM investigation of the formation of one-dimensional structures of C60 shuttlecocks on HOPG

20th IWEPNM: Molecular Nanostructures

Kirchberg, Austria 04. Mar - 11. Mar 2006

SE2.Integration

Invited Talk

Klenk, R.; Schock, H.-W.; Ellmer, K.

Herstellung von Halbleiterschichten aus multinären Chalkopyritverbindungen

Workshop: Verfahren für die Großflächenbeschichtung mit Halbleitermaterialien

Wörlitz/Sachsen Anhalt 17. Oct - 18. Oct 2006

SE4.Dynamics

Oral

Schwarzburg, K.; Ellmer, K.; Kunst, M.; Tornow, J.

Evaluation of ZnO nanorods as a substrate for composite solar cells

QUANTSOL 2006 Winter workshop

Rauris, Salzburg, Österreich 19. Mar - 25. Mar 2006

SE5.Energetics

Invited Talk

Bogdanoff, P., Herrmann, I., Koslowski, U., Barkschat, C., Fiechter, S.

Influence of the molecular and mesoscopic structure on the electrocatalytic activity of pyrolysed CoTMPP in the oxygen reduction

210. Meeting of the ECS

Cancun, Mexiko 28. Oct - 03. Nov 2006

Poster

Dittrich, Th.; Neumann, B.; Junghänel, M.; Tributsch, H.

On the Possible Origin of Ruthenium-sensitizer stability Photoinduced attachment?

Konferenzbeitrag, IPS-16 / 16th International Conference on Photochemical Conversion and Storage of Solar Energy

Uppsala, Schweden 02. Jul - 07. Jul 2006

Invited Talk

Fiechter, S.

Preparation of Carbon Supported Ru-Se Based Catalysts and their Electrochemical Performance in DMFC Cathodes

210. Meeting of the ECS

Cancun, Mexiko 28. Oct - 03. Nov 2006

Invited Talk

G. Schmithals, I. Herrmann, P. Bogdanoff, S. Fiechter, H. Tributsch

Structural characterisation of catalytic sites in cobalt and iron based electrocatalysts

O2RedNet Project Meeting

Warschau 01. Jun - 02. Jun 2006

Poster

Herrmann, I.; Bogdanoff, P.; Fiechter, S. and Tributsch, H.

Influence of molecular carbon structure and morphology on the electrocatalytic activity of pyrolysed CoTMPP in the oxygen reduction

II International Symposium on Carbon for catalysis - CarboCat

St. Petersburg 11. Jul - 13. Jul 2006

Oral

Herrmann, I.; Brüser, V.; Fiechter, S.; Kersten, H.; Bogdanoff, P.

Nano-structured electrocatalysts based on plasma treated CoTMPP for the oxygen reduction

ACHEMA

Frankfurt/Main 15. May - 18. May 2006

Poster

Neumann, B.; Johnson, B.; Ellmer, K.; Tributsch, H.

DEVELOPMENT OF A TiO₂/CuInGaSe₂/TiO₂ PHOTOCHEMICAL MEMBRANE FOR LIGHT DRIVEN FUEL GENERATION

IPS-16 / 16th International Conference on Photochemical Conversion and Storage of Solar Energy

Uppsala, Schweden 02. Jul - 07. Jul 2006

Invited Talk

P. Bogdanoff, G. Zehl, I. Dorbandt, S. Fiechter*

INFLUENCE OF THE CARBON SUPPORT ON THE PREPARATION OF HIGHLY ACTIVE RUTHENIUM-SELENIUM CATALYST FOR THE ELEKTROREDUCTION OF OXYGEN

II International Symposium on Carbon for catalysis - CarboCat

St. Petersburg, Russland 11. Jul - 13. Jul 2006

Oral

Skorupska, K.; Aggour, M.; Kanis, M.; Lublow, M.; Stempel-Pereira, T.; Jungblut, H.; Lewerenz, H.J.

Photoactive Metal- Silicon Nanocomposite by Electrochemical Self-Organization

210th ECS Meeting - 2006

Cancun, Mexico 28. Oct - 03. Nov 2006

Oral

Skorupska, K.; Aggour, M.; Kanis, M.; Lublow, M.; Jungblut, H.; Lewerenz, H.J.;

Nanotopography in self-organized structure formation on silicon

29th ECS Meeting - 2006

Denver, USA 07. May - 12. May 2006

Invited Talk

Tributsch, H.

Nachhaltige Materialwirtschaft

2nd Leibniz Conference of Advanced Science, Solarzeitalter 2006

Lichtenwalde / Sachsen 11. May - 13. May 2006

Invited Talk

Tributsch, H.

Nano-Photovoltaics: what strategy and how realistic?

Photovoltaics, The Third Generation and the Way to it

Berlin 05. May - 05. May 2006

Invited Talk

Tributsch, H.

Experimental and theoretical modeling of Fe-, Co-, Cu-, Mn-based electrocatalysts for oxygen reduction

5th International Conference on Electrocatalysis

Kotor / Montenegro 31. Aug - 31. Aug 2006

Invited Talk

Tributsch, H.

Nano-structured sensitization solar cells: scientific challenges towards competitiveness

Midnight Sun Meeting / Satellite Conference to IPS-16

Stockholm 01. Jul - 01. Jul 2006

Invited Talk

Tributsch, H., Jan Cermak, Nadezhda Nadezhina

Tensile Water and the Ascent of Sap in Trees as a Dynamic Selforganisation Phenomenon

6th International Workshop on Measuring Xylem Sap Flow and its Application to Plant Science

Perth, Australien 27. Nov - 29. Nov 2006

Oral

Zehl, G.; Bogdanoff, P.; Dorbandt I.; Fiechter, S.; Schmithals, G.

Preparation of platinum-free electrocatalysts for oxygen reduction

Project Meeting of the Network 'Efficient Oxygen Reduction for Electrochemical Energy Conversion - O2RedNet'

Bonn 24. Nov - 25. Nov 2006

Poster

Zehl, G.; Dorbandt, I.; Bogdanoff, P.; Fiechter, S.; Tributsch, H.

The Influence of preparation parameters on the catalytic properties of carbon supported RuSe-electrocatalysts

Workshop of the Network Efficient Oxygen Reduction for Electrochemical Energy Conversion - O2RedNet
Ulm 06. Apr - 07. Apr 2006

Invited Talk

Zehl, G.; Dorbandt, I.; Fiechter, S.; Bogdanoff, P.

On the Influence of Preparation Parameters on the Catalytic Properties of Carbon-Supported Ru-Se Electrocatalysts

6th International Symposium on New Materials for Electrochemical Systems
Montréal (QC), Canada 09. Jul - 12. Jul 2006

SE5.Interfaces

Invited Talk

Grzanna, J.; Jungblut, H.; Lewerenz, H. J.

Micro- and Macropores in the Model for Current Oscillations at the Si/Electrolyte Contact

Porous Semiconductors Science and Technology
Sitges - Barcelona 12. Mar - 17. Mar 2006

Invited Talk

Kanis, M.; Lewerenz, H.J.

Developing Copperindiumdisulfide into a Solar Material (invited)

XV International Materials Research Congress (IMRC 2006)
Cancun, Mexico, 20.08.2006

Oral

Kanis, M.; Skorupska, K.; Lublow, M.; Aggour, M.; Stempel-Perreira, T.; Bundesmann, J.; Lewerenz, H.J.

Photoactive Nanocomposite Prepared by Electrochemical Self-Organization

XV International Materials Research Congress (IMRC 2006)
Cancun, Mexico 20. Aug - 24. Aug 2006

Oral

Lewerenz, H.J.

The Protein - Semiconductor Interface: Immobilization and Charge Tranfer Aspects

International Conference on Colloid and Surface Science
Peking, China 15. Oct - 20. Oct 2006

Oral

Lewerenz, H.J.; Skorupska, K.; Grzanna, J.; Aggour, M.

Self-Organized Photoactive Nanostructure on Silicon by Photoelectrochemical Oscillations

57th Annual Meeting of the International Society of Electrochemistry (ISE)
Edinburgh, Great Britain 27. Aug - 01. Sep 2006

Oral

Lublow, M.; Lewerenz, H. J.

Brewster-Angle Analysis of Native and Photoelectrochemically Grown Silicon Oxide Nanotopographies

24th European Conference on Surface Science (ECOSS 24)
Paris 04. Sep - 08. Sep 2006

Invited Talk

Skorupska, K.

Step bunched silicon surface: possible application for biomolecule adsorption

Bio-Electrochemical Workshop

University of Portsmouth, Portsmouth, England, 18.01.2006

Oral

Skorupska, K.; Smith, J.R.; Campbell, S.A.; Lewerenz, H.J.

STM Imaging of Proteins on Semiconducting Substrates

29th ECS Meeting - 2006

Denver, USA 07. May - 12. May 2006

Poster

Skorupska, K.; Aggour, A.; Kanis, M.; Lublow, M.; Hunger, R.; Jungblut, H.; Lewerenz, H.J.

Si(111) Self-Organisation on a Nanometer Scale: Accumulation Layer on Step Bunched Surface

Bessy User's Meeting

Berlin, Germany 05. Dec - 06. Dec 2006

Poster

Skorupska, K.; Lewerenz, H.J.

Si(111) Self-Organization on a Nanometer Scale: Accumulation Layer on Step Bunched Surface

57th Annual Meeting of the International Society of Electrochemistry (ISE)

Edinburgh, UK 27. Aug - 01. Sep 2006

SF3.BESSY

Poster

Haas, S.; Hoell, A.; Zehl, G.; Fiechter, S.

Anomalous small-angle X-ray scattering investigation of Ru-Se catalysts supported on carbon

Deutsche Tagung für Forschung mit Synchrotronstrahlung, Neutronen und Ionenstrahlen an Großgeräten
2006

Universität Hamburg 04. Oct - 06. Oct 2006

SE6 - Electronic structure of semiconductor interfaces

SE6.BESSY

Oral

Andres, S.; Pettenkofer, C.

Electronic structure of ZnO(11-20) single crystals and thin films

DPG Frühjahrstagung 2006/ Dresden

Dresden 27. Mar - 31. Mar 2006

Oral

Andres, S.; Pettenkofer, C.; Seyller, T.

MOMBE growth of ZnO on SiC - a photoemission study -

DPG Frühjahrstagung 2006/ Dresden

Dresden 27. Mar - 31. Mar 2006

Oral

Pettenkofer, C.

Band structure of epitaxially grown CuInS₂ films

ICTMC15

Kyoto 06. Mar - 10. Mar 2006

Oral

Pettenkofer, C.

Epitaxial growth of ZnO on (0001) 6H SiC

MRS Fall meeting

Boston USA 27. Nov - 01. Dec 2006

I - Central Scientific-Technical Infrastructure

DE - Experimental Systems

DE

Poster

Bönisch, S.; Namaschk, B.; Wulf, F.

Position Determination and Resolution of Position Sensitive Neutron Detectors Limited by Charge Equalization and Noise

IEEE NSS 2006

San Diego, USA 29. Oct - 04. Nov 2006

DN - Central Data-Processing and Network

SE5.Interfaces

Invited Talk

Grzanna, J.; Jungblut, H.; Lewerenz, H. J.

Micro- and Macropores in the Model for Current Oscillations at the Si/Electrolyte Contact

Porous Semiconductors Science and Technology

Sitges - Barcelona 12. Mar - 17. Mar 2006

Invited Lectures

SF - Structural Research

SF - BENSC

Bentley, P. M.

Evolution in the guide halls

Invited seminar

Institut Laue-Langevin, Grenoble, France, 06.02.2006

Clemens, D.

New Guides for New Instruments at HMI

KAERI/HANARO technical seminar

Daejeon, South Korea, 11.07.2006

Schneider, R.

Residual Stress and Texture Analysis using Neutron and Synchrotron Radiation

Materialwissenschaftliches Seminar

Universität Kassel 26. May - 26. May 2006

Strobl, M.

Linking neutron imaging and scattering An overview of recent developments

invited seminar talk

ANSTO, Australien, 16.11.2006

Strobl, M.

Imaging with monochromatic neutrons @ HMI Berlin

invited seminartalk

HANARO, Korea, 19.07.2006

SF2.BENSC

Genzel, C.

X-ray diffraction analysis of residual stress fields in thin films - basic aspects and applications.

Invited talk, Erich-Schmidt-Kolloquium, Montanuniversität Leoben.

Leoben, Österreich, 01.06.2006

Hauß, T.

Time resolved protein dynamics during the photocycle of bacteriorhodopsin studied by quasi elastic neutron scattering.

Seminar talk, Institute of Pharmacy, Martin-Luther-University Halle

Halle, 11.04.2006

Notbohm, S.

Quantum Magnetic States in Ladders and Chains

Seminar, University of St Andrews

St Andrews, U.K., 07.06.2006

Tennant, A.

Probing Quantum Phase Transitions with Neutrons

Solid State Physics Colloquium

Jülich Research Centre, 27.01.2006

Tennant, A.

Quantum magnetism with neutrons

Low temperature physics seminar series

PTB Berlin, 27.06.2006

SF - ISL

ISL.PPT

Heufelder, J.

Database for the Determination of Monitor Units at OPTIS2

3rd HMI-PSI OPTIS2 meeting

Villingen, 17.06.2006

Heufelder, J.; Naumann, I.; Stark, R.

Dosimetry Measurements at PSI

2nd HMI-PSI OPTIS2 meeting

Villingen, 03.04.2006

ISL.User

Denker, A.

Non-destructive elemental analysis on paintings and metal artefacts

LANL Seminar

Los Alamos, USA 23. Oct - 23. Oct 2006

Denker, A.

PIXE - quantitative Analyse und Anwendungsbeispiele aus der Archäometrie

Institutsseminar

Wien; VERA Institut, 27.01.2006

Denker, A.

Swift Ion Beams for Solid State Physics and Materials Science, Medicine and Science of Art

GSI Kolloquium

GSI Darmstadt, 23.05.2006

SF - BESSY

SF2.BESSY

Darowski, N.; Dudzik, E.; Feyerherm, R.

Structural and magnetic transitions in MnAs/GaAs epitaxial films and perovskite manganite single crystals

Kolloquium des Laboratoriums für Neutronenstreuung des Paul-Scherrer-Instituts

Villingen, Schweiz, 15.03.2006

SF3.BESSY

Hoell, A.

Zur Charakterisierung von Nanostrukturen mit Röntgen-Kleinwinkelstreuung

Kolloquiumsvortrag an der Universität Halle im Rahmen eines Sonderforschungsbereiches

Halle, Germany, 12.12.2006

SF1 - Methods and Instruments

SF1.Methods

Clemens, D.

Building a new VSANS instrument at HMI

LLB Technical Seminar (invited)

CEA Saclay, France, 08.06.2006

Habicht, K.

Phonon and magnon linewidths measured with TAS / NRSE

ILL - College 4 Seminar

ILL, Grenoble, France, 10.03.2006

SF2 - Magnetism

SF2.Quantum Phenomena

Tennant, A.

Probing Quantum Phase Transitions with Neutrons

Colloquium of Dept of Physics

TU Braunschweig, Germany, 18.01.2006

Tennant, A.

Multiparticle states in quantum spin ladders

Seminar

IFW Dresden, Germany, 21.02.2006

Tennant, A.

Challenges and progress in quantum magnetism

Seminar to Department

MPI Stuttgart, 24.01.2006

Tennant, A.

Quantum correlations in quantum magnets at high field

Physics and Mathematics Colloquium

University of Hannover, 26.10.2006

Tennant, A.

Probing Quantum Phase Transitions with Neutrons

Colloquium of Department of Physics

University of Tübingen, 26.07.2006

SF3 - Materials

SF3.Nanostructures

Wiedenmann, A.

Magnetic Nanostructures as Probed by Small Angle Neutron Scattering

Seminar JAEA

Tokai, Japan, 18.07.2006

Wollgarten, M.; Vierke, J.; Hoell, A.; Tatchev, D.; Haas, S.; Boesecke, M.; Haug, J.; Sahoo, K.

Investigation of amorphous Al-Ni-La alloys, evolution of nanostructure during thermal treatment and routes to application

Vortrag im Nat. Inst. of Materials Science (NIMS)

Tsukuba, Japan, 01.09.2006

SF4 - Structure and Dynamics

SF4.Dynamics

Mahnke, H.-E.

From the photo effect to the analysis of nanostructures - X-ray absorption spectroscopy

Seminar, Friedrich-Schiller-Universität Jena

Jena, 07.07.2006

SF4.Structures

Mahnke, H.-E.

Vom Photoeffekt zur Analyse von Nanostrukturen - Röntgenabsorptionsspektroskopie

Kolloquium, Fachbereich Physik, Freie Universität Berlin

Berlin, 02.06.2006

SF5 - Theory

SF5.Biosystems

Falcke, M.

By chance or by the clock: How does intracellular Ca²⁺ oscillate?

Vortrag im Seminar des Neuroverbundes der Universität Magdeburg

Magdeburg 21. Apr. 2006

Falcke, M.

Dynamic models of cell signalling

Bioclub der Freien Universität

Berlin 10. Jan 2006

Falcke, M.

Mechanism of IP₃ induced intracellular Ca²⁺ oscillations

Nottingham, UK 28. Apr 2006

Falcke, M.

Reading the pattern in living cells - the Physics of Calcium signalling

Kolloquium des Max Planck Institut für Dynamik und Selbstorganisation

Göttingen 01. Mar 2006

SF5.Soft Matter

Höfling, F.

Localization Transition and Dynamic Scaling of the 3D Lorentz Model

Seminar der Gruppe "Theorie der kondensierten Materie"

Universität Leipzig, 09.02.2006

Höfling, F.

Dynamics of a Rod in a Crowded Environment

Kolloid Klub Konstanz

Konstanz, 11.07.2006

SF6 - Trace Elements

SF6.Others

Bordallo, Heloisa N.

Water Dynamics in Concrete from Quasi-Elastic Neutron Scattering

Seminar College 7 - Institut Laue-Langevin

Grenoble, Frankreich, 21.07.2006

SFN1 - Magnetism and Superconductivity of Quantum Materials

SF.N1

Lake, B.

Spin-waves, Spinons and Universal Scaling in a Quantum Antiferromagnet

Seminar at University of Stuttgart, Germany

Stuttgart, Germany, 13.12.2006

SE - Solar Energy Research

SE1 - Silicon photovoltaics

SE1.Cells

Fuhs, W.

Dünnschichtsolarzellen aus Silizium - Ansätze und materialwissenschaftliche Herausforderungen

Kolloquium der TU Chemnitz, Institut für Physik, Chemnitz, 10.5.2006
Chemnitz, Germany, 10.05.2006

Lips, K.

Elektrische Detektion kohärenter Spinzustände in Festkörpern

Physikalisches Kolloquium des Fachbereichs Physik, Philipps Universität Marburg
Marburg, Germany, 13.11.2006

Nickel, N. H.

Lasercrystallization of silicon germanium

Université de Rennes I
Rennes, France, 18.09.2006

Nickel, N. H.

Properties of hydrogen in ZnO

AIST - Diamond Research Center
Tsukuba, Japan, 23.10.2006

Nickel, N. H.

Laser crystallization of silicon for PV applications

Cymer Corporation
San Diego, USA, 21.11.2006

Nickel, N. H.

Optimal and electrical properties of lasercrystallized poly-Si

Universität Pierre & Marie Curie
Paris, France, 06.04.2006

Rau, B.

Polycrystalline Si thin-film solar cells with absorber layers grown at temperatures below 600°C by ECRCVD

Seminarvortrag Thomas J. Watson Laboratories des Caltech Institutes
Pasadena, CA, USA, 24.04.2006

Rau, B.

Polykristallines Dünnschicht-Silizium - effiziente und kostengünstige Solarzellen für die Zukunft

VDI Arbeitskreis Studenten und Jungingenieure der Fachhochschule für Technik und Wirtschaft (FHTW)
Berlin, 15.11.2006

Rech, B.

Photovoltaik und die optischen Technologien

Workshop von OpTec BB
Berlin-Erkner, Germany, 01.12.2006

SE1.Hetero

Schmidt, M.

Stand und Perspektiven der a-Si/c-Si Hetero-Solarzellen

Kolloquium am Institut für Mikrosensorik (CIS),

Erfurt, 12.12.2006

Stangl, R.

Characterisation and simulation of amorphous/crystalline silicon heterojunction solar cells

Institut für Solarenergieforschung Hameln

ISFH, Hameln, Germany, 06.02.2006

SE2 - Heterogeneous material systems

SE2.Analytics

Schedel-Niedrig, Th.

Materialeigenschaften und Anwendung von Chalkopyrit-Dünnsschichten in der Photovoltaik

Festkörperchemisches und analytisches Seminar

TU Berlin, Germany, 09.11.2006

SE2.Chemistry

Fischer, C.-H.

Spray-ILGAR buffer layers for highly efficient solar cells

Institutskolloquium, Thin Film Physics Group, ETH Zürich

Zürich, 02.07.2006

Fischer, Ch.-H.

ILGAR - an in-line suitable low-cost method for the deposition of high quality semiconductor layers for chalcopyrite solar cells

Institutskolloquium National Renewable Energy Laboratory (NREL)

Golden (Colorado), USA, 02.05.2006

SE2.Concepts

Fostiropoulos, K.

Interfaces in organic solar cells

Kolloquium: Lichttechnisches Institut

Karlsruhe, 20.02.2006

Fostiropoulos, K.

Organic nano-structures for photovoltaic applications

Seminar, Fritz-Haber-Institut, Prof Schlägl

Berlin, 29.09.2006

SE2.Contacts

Lux-Steiner, M. Ch.

CuInS₂ Solar Cells - From Research to Industrial Implementation

University of Neuchatel

Neuchatel, Switzerland, 10.07.2006

Rusu, M.

Physical processes at the interfaces of thin film solar cells

Academy of Sciences of Moldova

Chisinau, Moldova, 10.01.2006

SE2.Semico

Lux-Steiner, M. Ch.

Chalcopyrite Solar Cells: Interfaces and Grain Boundaries

Stiftung Caesar

Bonn, Germany, 25.04.2006

Lux-Steiner, M. Ch.

Dünnschichtsolarzellen für die zukünftige Energieversorgung

Physikalisch-Technische Bundesanstalt

Braunschweig, Germany, 01.11.2006

Siebentritt, S.

Chalkopyrite, Solarzellen, Punktdefekte und Korngrenzen

Werkstoffwissensch. Kolloquium

Uni Erlangen, Germany, 05.12.2006

Siebentritt, S.

Chalkopyrite, Solarzellen, Punktdefekte und Korngrenzen

Physikalisches Kolloquium

TU Freiberg, Germany, 14.11.2006

SE3 - Technology

SE3.Others

Schorr, S.

Structural investigations of novel chalcopyrite type related materials for thin film photovoltaics

Forschergruppenkolloquium

Kiel, 27.11.2006

SE4 - Dynamics of interfacial reactions

SE4.Cells

Hannappel, T.

Langsames Licht und schnelle Nanotröpfchen

Vortrag Freie Universität Berlin, Fachbereich Physik

Berlin, 15.02.2006

Hannappel, T.

III-V-based solar cells

Young scientists summer school on photovoltaics

Pärnumaa, Estonia, 21.08.2006

SE4.Others

Janata, E.

Pulse Radiolysis: Method, Instrumentation and Applications

Seminar Electron and Photon Driven Reactions

Freie Universität Berlin, Physikalische und Theoretische Chemie, 01.12.2006

SE5 - Solar energy

SE5.Energetics

Ellmer, K.

Die Renaissance des Halbleiters Zinkoxid: Eigenschaften, Probleme und Anwendungen

Seminar Lehrstuhl Prof. Brewer, Freie Universität Berlin, Physik
Berlin-Dahlem, 16.11.2006

Fiechter, S.

Zur Rolle von Mischphasen bei der Herstellung von Dünnschichtsolarzellen und Elektrokatalysatoren. Moderne Fragestellungen der Festkörperforschung in den Material- und Geowissenschaften

Ringvorlesung der Technischen Universität Berlin im WS 2005 / 2006
TU-Berlin, Chemisches Institut, 26.01.2006

Fiechter, S.

Röntgenfeinstruktur an amorphen Phasen

Festkörperchemisches und -analytisches Seminar
Berlin, TU, 30.11.2006

Tributsch, H.

Energiebionik-Evolution als Vorbild für nachhaltige Energiekreisläufe

Kunststoffe im Automobilbau
Mannheim, 29.03.2006

Tributsch, H.

Protonenleitung über Aminosäure-berandete Kanäle: eine bionische Strategie

Vortrag, Christian-Albrechts-Universität Kiel
Kiel, 22.05.2006

SE5.Interfaces

H.-J. Lewerenz

Photovoltaic Solar Energy Conversion: from Fundamentals to Advanced Nanostructures

Jilin University
Changchun; China, 26.10.2006

Kanis, M.; Lewerenz, H.J.

Material Science Aspects of Copperindiumsulfide for Solar Applications

MSE-Seminar, North Carolina State University
Raleigh, North Carolina/USA, 18.08.2006

Lewerenz, H.J.

Charge Carriers in Proteins: a Novel Transport Alternative

Brandenburg. Techn. Universität Cottbus
Cottbus, 27.11.2006

Lewerenz, H.J.

Self-Organized Nanotopographies for Photonics and Proteomics

Analytical Seminar, Colorado State University
Colorado State University, Fort Collins, USA, 26.04.2006

Lewerenz, H.J.

Semiconductor-Protein Junctions

Seminar
Portsmouth University, Portsmouth, U.K., 16.01.2006

Lewerenz, H.J.

Self-Organized Nanostructures for Photovoltaic and Proteomic Applications

MSE Seminar Series, North Carolina State University

North Carolina State University, Raleigh, USA, 19.04.2006

Skorupska, K.

Electrochemically induced self-organized nanostructures on Si: step bunching and photoactive Pt - Si nanocomposite

Seminar

Colorado State University, Fort Collins, USA, 03.05.2006

Skorupska, K.

From H-terminated Si surface to Self-Organized and Photoactive Nanostructures: A combined Electrochemistry / UHV Surface Science Approach

MSE Seminar Series

North Carolina State University, Raleigh, USA, 07.11.2006

Skorupska, K.

Proteins: Main Properties and Their Immobilization on Surfaces

Seminar, Adsorption Proteins on Silicon Surface

Brandenburgische Technische Universität, Cottbus, Germany, 27.11.2006

SE6 - Electronic structure of semiconductor interfaces

SE6.BESSY

Pettenkofer, C.

grenzflächen untersuchungen an Halbleiteroberflächen

Antrittsvorlesung BTU-Cottbus

Cottbus, 17.01.2006

Pettenkofer, C.

N-Dotierung von ZnO

Spektroskopie Workshop TU-Cottbus

Cottbus, 30.08.2006

Patents and Patent Application

Patents

Dep.	HGF-Programme	Inventor	Title	Date of filing	Date of grant
SE1	Energy	Kytin, V.; Kytina, I.; Lips, K.	Verfahren zur Herstellung eines Feststoff-Polymer-Lasermediums DE: 102004038307	30.12.99	30.12.99
SE1	Energy	Conrad, E.; Korte, L.; Schmidt, M.; von Maydell, K.	Amorph/kristalline Silizium-Heterosolarzelle DE: 202005019799	30.12.99	30.12.99
SE2	Energy	Mertesacker, B.; Pietzak, B.; Weidinger, A.	Elektrode zur Herstellung von höheren Fullerenen nach dem Krätschmer-Huffman-Lichtbogenverfahren DE: 19780627	30.12.99	30.12.99
SE2	Energy	Mertesacker, B.; Pietzak, B.; Waiblinger, M.; Weidinger, A.	Elektronenemitter und Verfahren zu dessen Herstellung KR: 10588738	30.12.99	30.12.99
SE2	Energy	Fischer, C.; Lux-Steiner, M.C.; Muffler, H.	Verfahren zur Herstellung dünner, schwer löslicher Beschichtungen IN: 198617 CN: 8059608	30.12.99	30.12.99
SE2	Energy	Harneit, W.; Jäger-Waldau, A.A.; Lux-Steiner, M.C.	Verfahren zur Herstellung eines Solarmoduls mit integriert serienvorschalteten Dünnschicht-Solarzellen US: 7019207	30.12.99	30.12.99
SE2	Energy	Hofsäss, H.; Krauser, J.; Mertesacker, B.; Weidinger, A.; Zollondz, J.	Quantenpunkt aus elektrisch leitendem Kohlenstoff, Verfahren zur Herstellung und Anwendung DE: 1595266 FI: 1595266 FR: 1595266 GB: 1595266 NL: 1595266	30.12.99	30.12.99
SE2	Energy	Fostiropoulos, K.; Johnev, B.; Vogel, M.	Verfahren zur Passivierung der anorganischen Elektrode einer organischen Solarzelle und organische Solarzelle DE: 10307772	30.12.99	30.12.99
SE2	Energy	Ennaoui, A.; Kropp, T.; Lux-Steiner, M.C.	Verfahren zum Aufbringen einer Zinksulfid-Pufferschicht auf ein Halbleitersubstrat mittels chemischer Badabscheidung DE: 102004040546	30.12.99	30.12.99
SE5	Energy	Dietz, N.; Lewerenz, H.	Reflektometer für spektroskopische Untersuchungen DE: 4211741	30.12.99	30.12.99

Dep.	HGF-Programme	Inventor	Title	Date of filing	Date of grant
SE5	Energy	Jungblut, H.; Lewerenz, H.; Schubert-Bischoff, P.	Mechanisch stabile Anordnung mit mindestens einem photonischen Kristall und Verfahren zu deren Herstellung DE: 10101119	30.12.99	30.12.99
SE5	Energy	Bogdanoff, P.; Bron, M.; Dorbandt, I.; Fiechter, S.; Hilgendorff, M.; Schulenburg, H.; Tributsch, H.	Platinfreies Chelat-Katalysatormaterial für die selektive Sauerstoffreduktion und Verfahren zu seiner Herstellung EP: 1401574	30.12.99	30.12.99
SF1	Structure of matter	Mezei, F.; Russina, M.	Neutronenoptisches Bauelementanordnung zur gezielten spektralen Gestaltung von Neutronenstrahlen oder -pulsen US: 7030397	30.12.99	30.12.99
SF1	Structure of matter	Cussen, L.; Krist, T.; Mezei, F.	Strahlungsoptisches Bauelement DE: 102004031934	30.12.99	30.12.99
SF4	Structure of matter	Fink, D.; Hoppe, K.	Sensor mit einem Feld aus Nanoporen und Verfahren zur Herstellung DE: 102004040239	30.12.99	30.12.99
SF4	Structure of matter	Fink, D.	Vorrichtung zur Reinigung von Flüssigkeiten DE: 102005015276	30.12.99	30.12.99
SF4	Structure of matter	Fink, D.; Hoppe, K.; Tabacniks, M.	Schallsensor nach dem Tauchspulprinzip und Verfahren zur Herstellung DE: 102005040293	30.12.99	30.12.99

Patent applications

Dep.	HGF-Programme	Inventor	Title	Date of filing
SE1	Energy	Böhme, C.; Hoheisel, M.; Lips, K.; Pfister, M.	Verfahren und Vorrichtung zur Untersuchung eines biologischen Gewebes WO: PCT/EP2006/061577	13.04.06
SE1	Energy	Böhme, C.; Hoheisel, M.; Lips, K.; Scholz, B.	Verfahren und Vorrichtung zur nicht invasiven Untersuchung eines Objektes WO: PCT/EP2006/061573	13.04.06
SE1, SE5	Energy	Kunst, M.; Lips, K.; Schmidt, M.; Schneider, J.; Stangl, R.; Wünsch, F.	Verfahren zur Herstellung einer einseitig kontaktierten Solarzelle und einseitig kontaktierte Solarzelle WO: PCT/DE2006/000917	22.05.06
SE1	Energy	Conrad, E.; Korte, L.; Schmidt, M.; von Maydell, K.	Amorph/kristalline Silizium-Heterosolarzelle WO: PCT/DE2006/002263	12.12.06
SE1	Energy	Gall, S.; Stangl, R.	Einseitig kontaktierte Solarzelle mit Durchkontaktierungen und Verfahren zur Herstellung DE: 102006027737.6-33	10.06.06 Prior application
SE2, SE5	Energy	Ellmer, K.; Fostiropoulos, K.; Lux-Steiner, M.C.; Mohr, M.	Verfahren zum Aufbringen von transparenten KontaktElektroden auf die Schichtenfolge von optoelektronischen Bauelementen mit DE: 102006002430.3-33	10.01.06 Prior application
SE2, SE5	Energy	Ellmer, K.; Fostiropoulos, K.; Lux-Steiner, M.C.; Mohr, M.	Verfahren zur Herstellung strukturierter Schichten transparenter leitender Oxide auf organischen Halbleiterschichten oder DE: 102006002428.1-43	10.01.06 Prior application
SE2	Energy	Fuertes Marrón, D.; Lehmann, S.; Lux-Steiner, M.C.; Sadewasser, S.	Verfahren zur Herstellung von in einer Matrix eingebetteten Quantenpunkten und mit dem Verfahren hergestellte in einer Matrix DE: 102006060366.4	16.12.06 Prior application
SE2, SF4	Energy	Chandra, A.; Chen, J.; Fink, D.	Poröses Substrat mit nicht durchgängigen Öffnungen, Verfahren zur Herstellung und Bauelement damit DE: 102006052192.7	02.11.06 Prior application
SE5	Energy	Bogdanoff, P.; Fiechter, S.; Herrmann, I.	Verfahren zur Herstellung eines platinfreien Chelat-Katalysator-materials und elektrokatalytische Elektrode WO: PCT/DE2006/000326 DE: 102006008328.8-41	20.02.06
SE5	Energy	Abdallah, O.; Citarella, G.; Kunst, M.; Wünsch, F.	Heterokontaktsolarzelle mit invertierter Schichtstrukturgeometrie WO: PCT/DE2006/000670	11.04.06
SE5	Energy	Junghänel, M.; Tributsch, H.	Photoelektrische Solarzelle mit einer elektrolytfreien Kontaktsschicht und Verfahren zur Herstellung DE: 102006013405.2-33	19.03.06 Prior application

Dep.	HGF-Programme	Inventor	Title	Date of filing
SE5	Energy	Aggour, M.; Lewerenz, H.	Photovoltaisches Bauelement mit metallischen Nanoemittern in einer Nanostrukturierung und Verfahren zur Herstellung DE: 102006016999.9-33	09.04.06 Prior application
SE5	Energy	Goldmann, G.; Tributsch, H.; Zähr, M.	Temperaturstabile Photovoltaikanlage in baumähnlichem Erscheinungsbild DE: 102006054531.1	15.11.06 Prior application
SE5	Energy	Ellmer, K.; Unold, T.	Reaktives Magnetron-Sputtern zur großflächigen Abscheidung von Chalkopyrit-Absorberschichten für Dünnschichtsolarzellen DE: 102006057068.5	29.11.06 Prior application
SF1	Structure of matter	Krist, T.	Neutronenpolarisator zur Erzeugung von polarisierten Neutronenstrahlen CH: 00232/06	14.02.06
SF1	Structure of matter	Krist, T.	Anordnung zur Fokussierung eines Neutronenstrahls und Verfahren zu dessen Herstellung DE:	31.12.06 Prior application
SF3	Structure of matter	Banhart, J.; Garcia-Moreno, F.	Verfahren zur pulvermetallurgischen Herstellung von Metallschaumstoff WO: PCT/DE2006/001375	02.08.06
SF3	Structure of matter	Bieder, H.; Hoell, A.; Mokrani, L.; Zizak, I.	Einrichtung zur Kleinwinkelstreumessung zur Analyse der Nanostruktur an Proben mittels Röntgenstrahlung DE: 102006029449.1-52	21.06.06 Prior application
SF3	Structure of matter	Babcsán, N.; Banhart, J.; Kumar, G.V.; Murty, B.	Verfahren zur Herstellung von Metallschäumen und Metallschaum DE: 102006031213.9-24	03.07.06 Prior application
SF4	Structure of matter	Brünger, W.H.; Fink, D.	Verfahren zum Herstellen einer Nanostruktur auf einem Substrat WO: PCT/EP2006/000335	16.01.06
SF4	Structure of matter	Fink, D.	Messverfahren zur in-situ-Kontrolle des chemischen Ätzvorgangs von latenten Ionenspuren WO: PCT/DE2006/001376	02.08.06
SF4	Structure of matter	Fink, D.	Intelligente Filtervorrichtung mit einer Überwachungseinheit DE: 102006008324.5-27	18.02.06 Prior application
SF4	Structure of matter	Fink, D.	Miniaturisierte Transportsysteme aus einem Formgedächtnis-Polymer und Verfahren zur Herstellung DE: 102006008315.6-54	18.02.06 Prior application
SF4	Structure of matter	Fahrner, W.; Fink, D.; Hoppe, K.; Sandkühler, U.; Stanski, B.	Schaltungsanordnung zur Spannungspulserzeugung DE: 102006047358.2-42	29.09.06 Prior application

Academic Education

Lectures, Courses, ...

Dep.	Lecturer	Topic	Course	University	Hrs/week
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Summer Term 2006					
SF1	Mezei, F.	Doktorandenseminar	seminar	TU-Berlin	2
SF2	Tennant, A.	Advanced Magnetism	lecture	TU-Berlin	2
SF2	Tennant, A.	Ausgewählte Kapitel der Neutronenstreuung (Magnetismus, Phasenübergänge)	seminar	TU-Berlin	2
SF3	Banhart, J.	Seminar Moderne Werkstoffe: Herstellung und Charakterisierung	seminar	TU-Berlin	2
SF3	Banhart, J.	Technologie der Aluminiumwerkstoffe (II)	lecture	TU-Berlin	2
SF4	Mahnke, H.; Schiwietz, G.	Festkörperphysik mit Ionenstrahlen	seminar	FU und TU Berlin übergreifend	2
SF4	Schiwietz, G.	Einführung in das Physikalische Grundpraktikum III	lecture	TU-Berlin	2
SF4	Schumacher, G.	Physik der Superlegierungen	lecture	TU-Berlin	2
SF4	Schumacher, G.	Physik der Superlegierungen	seminar	TU-Berlin	2
SF5	Casagrande, V.; Straube, R.	Statistische Physik: Theorie der Wärme	tutorial	FU-Berlin	4
SF5	Falcke, M.	Statistische Physik: Theorie der Wärme	lecture	FU-Berlin	4
SFN1	Lake, B.; Siemensmeyer, K.	Neutronen als Sonde zur Untersuchung von Kondensierter Materie	lecture	TU-Berlin	4
SFN1	Lake, B.; Siemensmeyer, K.	Neutronenstreuung und Dynamik kondensierter Materie	lecture	TU-Berlin	4
SE1	Nickel, N.H.	Wasserstoff in Festkörpern II	lecture	TU-Berlin	1
SE2	Fischer, C.; Lauermann, I.	Instrumentelle Analytik, Analytik anorganischer Dünnschichtsysteme	lab course	FU-Berlin	2
SE2	Fischer, C.	Quantitative Analyse	lecture	FU-Berlin	2
SE2	Harneit, W.	Fortgeschrittenen Praktikum Teil A - Versuch Compton Effekt	lab course	FU-Berlin	2
SE2	Sadewasser, S.	Fortgeschrittenen Praktikum Teil B Versuch - Solarzellen	lab course	FU-Berlin	2
SE2	Siebentritt, S.	Halbleiterphysik	lecture	FU-Berlin	4
SE2	Siebentritt, S.	Halbleiterphysik	tutorial	FU-Berlin	2
SE3	Schock, H.	Bauelemente für die photovoltaische Energieumwandlung	lecture	TU-Berlin	3
SE3	Schock, H.; Kötschau, I.; Weber, A.	Herstellung einer Siliziumsolarzelle	lab course	TU-Berlin	3
SE5	Lewerenz, H.J.	Energieumwandelnde Halbleiterstrukturen	seminar	TU-Berlin	2
SE5	Lewerenz, H.J.	Elektrochemische Nanotechnologie	lecture	TU-Berlin	2

Dep.	Lecturer	Topic	Course	University	Hrs/week
SE5	Tributsch, H.	Bionische Forschung: Strategien zur regenerativen Energienutzung	lecture	FU-Berlin	2
SE6	Pettenkofer, C.	Halbleitergrenzflächenphysik	lecture	TU-Cottbus	2

Winter Term 2006/2007					
SF2	Tennant, A.	Advanced Magnetism	lecture	TU-Berlin	2
SF2	Tennant, A.; Lake, B.	28th HMI School on Neutron Scattering	lab course	TU-Berlin	3
SF2	Tennant, A.	Ausgewählte Kapitel der Neutronenstreuung (Magnetismus, Phasenübergänge)	seminar	TU-Berlin	2
SF3	Banhart, J.	Technologie der metallischen Leichtbauwerkstoffe (I)	lecture	TU-Berlin	4
SF3	Haibel, A.	Tomographie	lecture	TU-Berlin	2
SF4	Mahnke, H.; Heyn, M.P.	Einführung in die Kern- und Teilchenphysik	lecture	FU-Berlin	4
SF4	Mahnke, H.; Schiwietz, G.	Ionenstrahlenphysik	seminar	TU und FU-Berlin übergreifend	2
SF4	Schiwietz, G.	Einführung in das Physikalische Grundpraktikum III	lecture	TU-Berlin	2
SE1	Nickel, N.H.; Esser, N.	Physik für Chemiker	lecture	TU-Berlin	4
SE2	Fischer, C.	Quantitative Analyse	lecture	FU-Berlin	2
SE2	Harneit, W.	Fortgeschrittenen Praktikum Teil A - Versuch zum Compton-Effekt	lab course	FU-Berlin	2
SE2	Lux-Steiner, M.C.;	Lehrseminar B: Erneuerbare Energien	seminar	FU-Berlin	2
SE3	Schock, H.; Kötschau, I.; Weber, A.	Herstellung einer Siliziumsolarzelle	lab course	TU-Berlin	3
SE5	Fiechter, S.	Materialien für Solar- und Brennstoffzellen - Präparation und physikalisch-chemische Charakterisierung	lecture	TU-Berlin	2
SE5	Fiechter, S.	Zur Rolle von Mischphasen bei der Herstellung von Dünnschichtsolarzellen und Elektrokatalysatoren	lecture	TU-Berlin	2
SE5	Fiechter, S.	Röntgenfeinstrukturuntersuchungen an amorphen Phasen	seminar	TU-Berlin	2
SE5	Lewerenz, H.J.; Skorupska, K.	Photovoltaische Solarzellen	lecture	TU-Berlin	2
SE5	Lewerenz, H.J.; Skorupska, K.	SE Materialien für zukünftige Silizium-Nano-Technologien	seminar	Universität Cottbus	1
SE5	Lewerenz, H.J.; Skorupska, K.	Energieumwandelnde Halbleiterstrukturen	seminar	TU-Berlin	2
SE6	Pettenkofer, C.	Einführung in die Physik 1	lecture	TU-Cottbus	4
SE6	Pettenkofer, C.	Einführung in die Physik 1	tutorial	TU-Cottbus	4

Exams

Dep.	Author	Title	University	Date
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Habilitation				
SE3	Schorr, S.	Phasenbeziehungen und Metallordnung multinärer Halbleitermischkristalle von Zinkblendedederivaten	Universität Leipzig, Fakultät für Chemie und Mineralogie	11/06
SE4	Hannappel, T.	InP(100)-based interfaces for photovoltaics prepared via metal organic chemical vapor deposition	FU-Berlin	02/06

Ph. D.				
SF3	Matjasevic, B.	Characterisation and Optimisation of Blowing Agent and Alloy Coposition for Making Optimum Metal Foams	TU-Berlin	02/06
SF3	Perroud, O.	Neutronenkleinwinkelstreuung zur Charakterisierung magnetischer Gläser	TU-Berlin	08/06
SF3	Rack, A.	Untersuchung komplexer Materialsysteme mittels Synchrotron-Tomographie und 3D-Bildanalyse	TU-Berlin	04/06
SF5	Höfling, F.	Dynamics of Rod-Like Macromolecules in Heterogeneous Materials	LMU München	10/06
SF5	Pierobon, P.	Driven lattice gases: models for intracellular transport	LMU München	05/06
SF6	Bukalis, K.	Untersuchungen zur Identifizierung neuer Metalloproteine und Selenoproteine im respiratorischen Trakt der Ratte.	FU-Berlin	04/06
SF6	Dalla Puppa, L.	Protective Effekte von Selenium in Microglia	FU-Berlin	07/06
SF6	Hoppe, B.	Untersuchungen zur Regulation des Gehirnseleinstoffwechsels und zu Selenoproteinen im ZNS	FU-Berlin	01/06
SE1	Korte, L.	Die elektronische Struktur des amorph-kristallinen Silizium-Heterostruktur-Kontakts	Philipps-Universität Marburg	06/06
SE1	Petter, K.	Defekte in epitaktisch gewachsenen Silizium-Schichten (Niedertemperaturepitaxie)	Philipps Universität Marburg	01/06
SE2	Doka Yamigno, S.	Characterization of as-grown and Ge-ion implanted CuGaSe ₂ thin films prepared by the CCSVT technique	FU-Berlin	11/06
SE2	Johnev, B.	Chemical Engineering of the Electronic Properties of ITO-Organics Interface in Phthalocyanine/C ₆₀ -Fullerene Organic Solar Cells	FU-Berlin	02/06
SE2	Naydenov, B.	Encapsulation of Endohedral Fullerenes for Quantum Computing	FU-Berlin	11/06

Dep.	Author	Title	University	Date
SE3	Enzenhofer, T.	Festkörperreaktionen und Diffusionsprozesse bei der schnellen Bildung von Halbleiterschichten im System Cu-In-S	TU-Berlin	12/06
SE5	Herrmann, I.	Entwicklung und Optimierung neuer Präparationsverfahren von Übergangsmetall-basierten Elektrokatalysatoren für die Sauerstoffreduktion.	FU-Berlin	02/06
SE5	Seeger, S.	Herstellung und strukturelle, optische und elektrische Charakterisierung von Schichtgittersulfiden (MoS ₂ , WS ₂) für die Photovoltaik	TU-Berlin	01/06
SE5	Thomalla, M.	Nanostrukturierte Compositesolarzelle	FU-Berlin	09/06

Diploma				
SF1	Gau, Y.	Untersuchungen neutronenoptischer Elemente im Doppelkristalldiffraktometer	TFH-Berlin	09/06
SF1	Riemke, M.	Qualitative Spektrumsbestimmung sowie Inbetriebnahme einer energieselektiven Option für CONRAD	TFH-Berlin	09/06
SF1	Rolfs, K.	Züchtung und magnetisch-strukturelle Charakterisierung von Einkristallen der Heusler Legierung Ni-Mn-Sn	FU-Berlin	09/06
SF1	Staack, K.	Quantitative Refraktionstomographie	TFH-Berlin	09/06
SF1	Zilly, F.	MonteCarlosimulation der Neutronenbeugung an einer mehrphasigen, texturierten, spannungsbehafteten Probe beliebiger Geometrie	FU-Berlin	11/06
SF2	Landsgesell, S.	Darstellung, Strukturbestimmung und Bestimmung der magnetischen Eigenschaften von Neodym-Yttrium Manganiten (III): Nd _{1-x} Y _x MnO ₃	FU-Berlin	08/06
SF3	Freidank, H.	Synchrotron-Tomographie an proteinbasierten keramischen Schäumen	TFH-Berlin	03/06
SF3	Rueda, A.	Untersuchung der Mikrostruktur und des Fließverhaltens binärer thixotroper Legierungen mit Synchrotronstrahlung	TU-Berlin	10/06
SF3	Schmidt, G.	Untersuchung der Struktur und Funktionsweise verschiedener GDLs und MEAs in Brennstoffzellen mittels Synchrotron-Tomografie	FHTW	09/06
SF3	Slaby, J.	Automatisierung der Justierung eines Synchrotron-Tomographiemessaufbaus	BA Berlin	08/06
SF5	Bentele, K.	Calcium Dynamics - Single Channel Approximation and Green's Matrix Approach	FU-Berlin	12/06
SF5	Zeller, S.	Hybrid-Modell zur Beschreibung der intrazellulären Ca ²⁺ - Dynamik	TU-Berlin	12/06

Dep.	Author	Title	University	Date
SF6	Bahr, D.	Realisierung und Erprobung von Softwareerweiterungen an einem Synchrotronstrahlungs-Messplatz zur ortsauflösenden Röntgenfluoreszenzanalyse	TFH-Berlin	11/06
SE1	Behrends, J.	Spinabhängiger Transport und Rekombination in a-Si/c-Si-Heterostrukturen	Carl-von-Ossietzky-Universität, Oldenburg	06/06
SE1	Gluba, M.A.	Elektronenspinresonanzuntersuchungen an Zinkoxyd	TU-Berlin	02/06
SE1	Gorka, B.	Silizium-Niedertemperaturepitaxie mit Hilfe von ionenassistierter Deposition	Universität Bielefeld, Fakultät für Physik	05/06
SE2	Augustin, S.	Ellipsometrische Photolumineszenz an CuGaSe ₂ -Defekten	FU-Berlin	10/06
SE2	Bierauf, F.	Elektrische und optische Eigenschaften von TiO ₂	FU-Berlin	08/06
SE2	Breuer, S.	Elektrosorption von Glutamat an Germanium	FU-Berlin	10/06
SE2	Eisenbarth, T.	Charakterisierung von einzelnen Korngrenzen in CuGaSe ₂ -Bikristallen	FU-Berlin	10/06
SE2	Hofstetter, J.	Ge und Sn in CuGaSe ₂	FU-Berlin	03/06
SE2	Kalafatoglu, Y.	Rekombination von Ladungsträgern in Dünnschichtsolarzellen mit koverdampften CuGaSe ₂ -Absorbern	TU-Berlin	10/06
SE2	Leendertz, C.	Simulation der Kelvinsondenkraftmikroskopie zur Quantifizierung von Messungen an Korngrenzen in CuGaSe ₂ -Bikristallen	FU-Berlin	09/06
SE2	Loreck, C.	Sputter-(Zn,Mg)O als Pufferschicht in cadmiumfreien Chalkopyrit-Dünnschichtsolarzellen: Präparation, elektronenspektroskopische Grenzflächenanalyse und Solarzelleneigenschaften	TU-Berlin	02/06
SE2	Schäfer, S.	Gepulste EDMR in C60-Filmen	FU-Berlin	10/06
SE2	Wimmer, M.	Elektrische Transportuntersuchungen an einzelnen Σ3-Korngrenzen in CuGaSe ₂ -Bikristallen	FU-Berlin	10/06
SE3	González Liano, M.A.	Entwicklung und Aufbau eines automatisierten Messsystems zur Extraktion von Solarzellenparametern aus dafür angepassten Teststrukturen	TFH-Berlin	05/06
SE4	Cherkouk, C.	Präparation und Charakterisierung von ZnO Einkristalloberflächen für Femtosekunden zeitaufgelöste Messungen an sauberen und mit Farbstoff bedeckten Oberflächen	FU-Berlin	05/06
SE5	Johnson, B.	Optische und elektrische Optimierung einer photovoltaischen Dünnschicht Membran (CIS-TiO ₂)	TU-Berlin	05/06

Dep.	Author	Title	University	Date
SE5	Knauer, M.	Elektrochemische Untersuchungen zur Inhibitierung von Cobalt- und Eisenhaltigen Katalysatoren für die Sauerstoffreduktion	FU-Berlin	01/06
SE5	Pauli, T.	Versiegelung von Dünnschicht-Solarzellen nach einem bionischen Vorbild	FHTW	07/06
SE5	Schoppa, M.	Thermogravimetrische und massenspektroskopische Untersuchungen zur Dichtigkeit von Versiegelungen für Farbstoff-Solarzellen	FHTW	01/06
SE5	Szabó, N.	Infrarotspektroskopische Untersuchung von Wasser in Nanoporen	FU-Berlin	10/06
SE5	Thiel, K.	Bestimmung und Modifikation der Hydrophilie der Kohlenstoffmatrix von pyrolysierten CoTMPP Katalysatoren.	FU-Berlin	08/06
HAD	Förster, A.	Konzeption eines Systems zur Netzwerkverwaltung am Hahn-Meitner-Institut Berlin	Berufsakademie in der FHW Berlin	08/06
HAD	Gasse, J.	Konzeption und Erstellung einer Software zur Serialisierung und automatisierten Analyse von komplexen Daten aus unterschiedlichen Quellen	Berufsakademie in der FHW Berlin	08/06
HAD	Poppe, I.	Modellierung und Visualisierung von Gleichgewichtszuständen in kristallinen Neigesystemen	Berufsakademie in der FHW Berlin	08/06
HAD	Slaby, J.	Automatisierung der Justierung eines Synchrotron-Tomographiemessaufbaus	Berufsakademie in der FHW Berlin	08/06

Master Thesis				
SF3	Barekar, N.	Effect of melt spinning process parameters on the microstructure of Al-Ni-La alloys	Indian Institute of Technology	07/06
SF3	Hilger, A.	Bestimmung der gerätespezifischen Parameter der Tomographiestation CONRAD und erste Messungen	TFH-Berlin	10/06

Studienarbeit				
SF3	Goergen, S.	Herstellung und Charakterisierung von Gläsern auf Basis von Aluminium	TU-Berlin	12/06
SF3	Hiller, S.	Untersuchung des Einflusses verschiedener Prozessparameter auf die Schäumbarkeit von Aluminium	TU-Berlin	03/06

Summer students etc.

The 19th HMI Summer Programme for undergraduate students took place from August 7th to September 29th, 2006. 24 students, including 10 from abroad, joined in actual research projects and participated in a series of seminars informing about the activities of the HMI.

Beyond the Summer Programme, 10 student trainees and 58 high school trainees visited the HMI for individual training projects.

Faculty appointments and Awards

Faculty appointments

Dep.	Name	Position	Date
SF1	Peters, J.	Prof des Universités, Université Joseph Fourier Grenoble 1	accepted 09/06
SE1	Rech, B.	W3-position TU-Berlin	accepted 01/07

Awards

Dep.	Name	Award
SF2	Darowski, N.	Poster Preis der SNI, 06.10.2006
SF6	Grbavac, I.	Posterpreis vom 23. Workshop 2006 Macro and Trace Elements/Jena, 27.09.2006
SF6	Nunes Bordallo, H.	Posterpreis der SNI 2006, 06.10.2006
SE1	Rudigier, E.	She-Study Award, SHELL AG Deutschland, 08.12.2006
SE1	Schmidt, M.	Paper Award WCPEC-4, Hawaii , 11.05.2006
SE4	Tornow, J.	Prof. Werner Petersen Preis der Technik, 25.11.2006
WGF	Steiner, M.	Ehrenprofessur, China Institute of Atomic Energy (CIAE), Peking, China, 18.05.2006

Participation in external scientific bodies and committees

Dep.	Name	Committee / Board / Scientific body
SF	Steitz, R.	ILL Scientific Panel: Sub-Committee 9
SF1	Habicht, K.	ILL College 4 Subcommittee
SF1	Krist, T.	Chairman COST Action P7
SF1	Mezei, F.	Journal of Neutron Research
SF1	Mezei, F.	Experimental Facilities Advisory Oversight Committee of the SNS Project, Oakridge (USA)
SF1	Mezei, F.	International Advisory Committee of Conference on Polarized Neutrons in Condensed Matter Investigations
SF1	Mezei, F.	Scientific Council Laboratoire Leon Brillouin (LLB), Saclay, France
SF1	Mezei, F.	European Neutron Scattering Association (ENSA), Switzerland
SF1	Mezei, F.	International Advisory Council of the Budapest Neutron Center (BNC), Budapest, Hungary
SF1	Pappas, C.	ILL College 4 Subcommittee
SF1	Pappas, C.	International Conference on Polarized Neutrons PNCMI 2006
SF1	Schneider, R.	VDI Beirat FRM II
SF1	Treimer, W.	Kuratorium TFH
SF1	Treimer, W.	Fachgruppensprecher für Studiengang Medizophysik
SF2	Feyerherm, R.	BESSY Nutzerausschuss
SF2	Graf, H.	Instrumentierungsausschuss FRM-II
SF2	Graf, H.	BMBF Gutachterausschuss „Erforschung kondensierter Materie an Großgeräten“
SF2	Holub-Krappe, E.	Executive Committee of the International X-Ray Society
SF2	Holub-Krappe, E.	International Executive XAFS Committee of the Union of Crystallography
SF2	Holub-Krappe, E.	International Advisory Board and Program Committee: FP6 - ToK NANOMAG-LAB: Workshop on Properties of ultrathin magnetic films, Bialowieza, Poland, 7.-9.09.2006
SF2	Tennant, A.	Peer Review College of the EPSRC (Engineering and Physical Sciences Research Council)
SF2	Tennant, A.	Editor of the Journal of Statistical Mechanics: Theory and Experiment
SF2	Tennant, A.	LET Instrument Advisory Board of the Rutherford Appleton Laboratory
SF2	Tennant, A.	ISIS Facility Access Panel
SF3	Abromeit, C.	Symposium Organizer for MRS Fall Meeting 2006, Boston
SF3	Abromeit, C.	Scientific committee for E-MRS-Fall Meeting 2006
SF3	Banhart, J.	Organizing Committee of MetFoam 2007
SF3	Banhart, J.	Assigned Scientific Committee of Iutam Symposium
SF3	Banhart, J.	Arbeitsgemeinschaft Metall- und Materialphysik der DPG
SF3	Banhart, J.	Commission for Editor of Materials Transactions
SF3	Banhart, J.	International Science & Organizing Committee for ICSSP III
SF3	Banhart, J.	Programm committee of Thermec 2006
SF3	Banhart, J.	Programme Committee of the International Conference on Aluminium Alloys 11
SF3	Kardjilov, N.	Board of Directors of International Society for Neutron Radiology

Dep.	Name	Committee / Board / Scientific body
SF3	Manke, I.	DGZfP-Fachausschuss Durchstrahlungsprüfung UA Bildverarbeitung in der Durchstrahlungsprüfung UA Computertomographie
SF3	Manke, I.	DGM-Fachausschuss Strahllinien
SF3	Wanderka, N.	International Steering Committee of Field Emission Society
SF3	Wanderka, N.	THERMEC 2006
SF3	Wanderka, N.	Editor Ultramicroscopy Proceedings der Konferenz IFES 2006
SF3	Wiedenmann, A.	Instrumentation advisory board ANSTO/Australia
SF3	Wiedenmann, A.	Advisory committee Instrumentation KAERI
SF3	Wiedenmann, A.	ILL Subcommittee College 7
SF3	Wiedenmann, A.	FRMII Instrument advisory committee
SF3	Wiedenmann, A.	Scientific committee, Paul-Scherrer-Institut (Switzerland)
SF3	Wiedenmann, A.	Organisation committee for Int. Conf. on polarised Neutrons
SF3	Wiedenmann, A.	Scientific council Institut-Laue-Langevin Subcommittee 1, Grenoble, France
SF4	Denker, A.	Centre Européen d'Archaeometrie Liège
SF4	Denker, A.	COST G8 (Non-destructive Testing of Museum Objects)
SF4	Denker, A.	Scientific Committee of the European Cyclotron Progress Meeting
SF4	Denker, A.	Advisory Committee of the International Conference on Particle Induced X-ray Emission
SF4	Denker, A.	IGAS-Beirat
SF4	Fink, D.	Radiation Effects and Defects in Solids
SF4	Homeyer, H.	International Advisory Committee on the TESLA Cyclotron Installation at VINCA, Belgrade
SF4	Homeyer, H.	International Organizing Committee of the International Conference on Cyclotrons and their Application
SF4	Mahnke, H.	Forschung mit Nuklearen Sonden und Ionenstrahlen (KFSI)
SF4	Schiwietz, G.	SHIM
SF4	Schiwietz, G.	ICACS (International Conference on Atomic Collisions in Solids)
SF4	Schiwietz, G.	Editor Konferenzband zur ICACS 22 innerhalb von Nuclear Instruments and Methods, Section B: NIM-B (2007)
SF4	Schiwietz, G.	Editorial Board Journal Nuclear Instruments and Methods, Section B, Beam Interactions with Materials and Atoms
SF4	Sielemann, R.	Member of the Editorial Board of the Journal "Hyperfine Interactions".
SF5	Falcke, M.	SFB 555 "Komplexe nichtlineare Prozesse"
SF5	Falcke, M.	Graduiertenkolleg "Dynamik und Evolution zellulärer und makromolekularer Prozesse"
SF5	Falcke, M.	Prüfungsgremium FU und TU
SF5	Frey, E.	Sonderforschungsbereich Uni Bielefeld
SF5	Frey, E.	Vorsitzender des Arbeitskreises Biologische Physik, Deutsche Physikalische Gesellschaft
SF6	Behne, D.	Scientific Committee of the Conference Series "Nuclear Analytical Methods in the Life Sciences" (NAMLS)
SF6	Kyriakopoulos, A.	International scientific committee of the 8th International Symposium on Metal Ions in Biology and Medicine

Dep.	Name	Committee / Board / Scientific body
SFN1	Lake, B.	NIST reactor panel
SE1	Lips, K.	18th Workshop on Quantum Solar Energy Conversion (Quantsol) March 2006 in Rauris/Österreich
SE1	Lips, K.	ICANS - Intern. Conf. on amorphon and nanocrystalline semiconductors
SE1	Lips, K.	Prüfungskommission der FU Berlin
SE1	Lips, K.	INTAS
SE1	Nickel, N.H.	Alexander-von-Humboldt-Stiftung
SE1	Rech, B.	Ph. D. Award Council in the award committee of the Eindhoven University of Technology
SE1	Rech, B.	Profiseminar "Dünnschicht-PV-Module"
SE1	Rech, B.	Europäische Photovoltaikkonferenz 2006, Dresden
SE1	Rech, B.	Steering Committee ATHLET
SE1	Rech, B.	EuroNorm GmbH (Projekträger des BMWi)
SE2	Ennaoui, A.	Editorial Board, Solar Energy Materials and Solar Cells
SE2	Ennaoui, A.	Scientific Committee, The First International Meeting on : Photochemistry, Photocatalysis, Morocco, Agadir 29-31 March 2006
SE2	Ennaoui, A.	Steering Committee, World Renewable Energy Congress IX and Exhibition, 19-25 August 2006, Florence, Italy
SE2	Lux-Steiner, M.C.	Jury des Innovationspreises Berlin/Brandenburg
SE2	Lux-Steiner, M.C.	EUREC Agency
SE2	Lux-Steiner, M.C.	Eidgenössische Energieforschungskommission CORE in der Schweiz
SE2	Lux-Steiner, M.C.	Wissenschaftlicher Beirat der Sulfurcell Solartechnik GmbH
SE2	Lux-Steiner, M.C.	Direktorium des nationalen Forschungsverbundes Sonnenenergie FVS (Verbund von außeruniversitären Forschungseinrichtungen auf dem Gebiet der regenerativen Energien)
SE2	Lux-Steiner, M.C.	Scientific committee 21 EUPVSEC/Topic Organiser of "CIS, CdTe and other (II-VI) Ternary Thin Film Cells"
SE2	Lux-Steiner, M.C.	Committee of the SPIE Meeting
SE2	Lux-Steiner, M.C.	1. Vorsitzende des Vereins Arbeitsgemeinschaft Solare Materialien (ASM)
SE2	Lux-Steiner, M.C.	Vorsitzende des Wissenschaftlichen Beirats des Berliner Instituts für Kristallzüchtung (IKZ) in der Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz
SE2	Lux-Steiner, M.C.	Wissenschaftlicher Beirat des Forschungszentrums Rossendorf e.V. (FZR)
SE2	Lux-Steiner, M.C.	Hochschulrat der Universität Oldenburg
SE2	Schedel-Niedrig, T.	Eurec Agency
SE2	Siebentritt, S.	Organisationskomitee "Deutsche Physikerinnentagung Novemer 2006"
SE3	Schock, H.	ICTMC
SE3	Schock, H.	Progress in Photovoltaics
SE3	Schock, H.	WPSEC
SE3	Schock, H.	EMRS
SE5	Lewerenz, H.J.	Department of Energy - "Basic Energy Science"
I	Nielsen, U.	Innovationsförderprogramm der Investitionsbank Berlin

Dep.	Name	Committee / Board / Scientific body
I	Nielsen, U.	Ständige Kommission des Verwaltungsrates des Konrad-Zuse-Zentrums für Informationstechnik Berlin
I	Nielsen, U.	Collaboration Board TESLA des DESY Hamburg
I	Nielsen, U.	Fachbereich Berufsakademie in der FHW Berlin
I	Nielsen, U.	Mitgliederversammlung des DFN Vereins
DE	Sauer, O.	Prüfungsausschuss der Fachrichtung Informatik der Berufsakademie Berlin
DE	Wulf, F.	Conference Committee IEEE NSS/MIC 2008, Dresden, Exhibits Chair
DE	Wulf, F.	Studiengruppe für Elektronische Instrumentierung (SEI)
DE	Wulf, F.	Committee for European Studies on Norms for Electronics (ESONE), XT/TCC
DN	Grzanna, J.	Applied Optics
DN	Ziem, P.	Deutsche Oracle-Anwendergruppe e.V. (DOAG)
WGF	Steiner, M.	Steering Committee, Institut Laue-Langevin (ILL), Grenoble, France
WGF	Steiner, M.	Aufsichtsrat, BESSY GmbH Berlin
WGF	Steiner, M.	Commission on Neutron Scattering of the International Union of Crystallography, USA
WGF	Steiner, M.	DAAD
WGF	Steiner, M.	Innovationsrat des Ministeriums für Wirtschaft und Arbeit des Landes Sachsen-Anhalt

Organization of Scientific Conferences and Meetings

Dep.	Title	Type	Date
SF1	PNCMI (Polarised Neutrons for Condensed Matter Investigations) Dr. C. Pappas	Conference	25.09.06 - 28.09.06
SF1	PNCMI (Polarised Neutrons for Condensed Matter Investigations) School Dr. K. Habicht	Workshop	19.09.06 - 22.09.06
SF1	WINS2006 (Workshop on Inelastic Neutron Spectrometers) Dr. M. Russina	Workshop	29.09.06 - 30.09.06
SF2	5th Workshop on Orbital Physics and Novel Phenomena in Transition Metal Oxides Dr. D. Argyriou	Workshop	11.10.06 - 12.10.06
SF3	Meeting of European Neutron Radiography Association 2006 The new neutron tomography instrument at HMI (N. Kardjilov, A. Hilger, I. Manke, M. Strobl, W. Treimer, J. Banhart)	Conference	17.03.06
SF4	CERN (ISOLDE) user group on Mn-Mössbauer Spectroscopy Dr. Rainer Sielemann	Meeting	31.10.06 - 05.11.06
SF4	ICACS 2006 Mahnke/Schiwietz/Klaumünzer	Conference	21.07.06 - 26.07.06
SF4	Ionenstrahlphysik und Nanotechnologie Dr. H.-E. Mahnke	Workshop	16.05.06 - 17.05.06
SF6	"Gemeinsame Herbsttagung Metallobiomics" Dr. A. Kyriakopoulos, Prof. Dr. D. Behne, A. Graebert, Dr. D. Alber	Conference	06.12.06 - 07.12.06
SF7	DETNI Meeting Dr. B. Gebauer	Workshop	27.09.06
SE1	Workshop "Zielgruppengerechte Präsentation von Wissenschaft" Dr. Klaus Lips	Workshop	24.01.06
SE2	Deutsche Physikerinnentagung Dr. Susanne Siebentritt	nat. Fachtagung	02.11.06 - 05.11.06
SE2	Erstes DFG-Rundgespräch: Grundlagenforschung in der Photovoltaik Dr. Susanne Siebentritt	Workshop	20.07.06 - 21.07.06
DE	Studiengruppe für Elektronische Instrumentierung, Frühjahrstagung 2006 Dr. Friedrich Wulf	Conference	27.03.06 - 29.03.06
DE	Studiengruppe für Elektronische Instrumentierung, Herbsttagung 2006 Dr. Friedrich Wulf	Conference	18.09.06 - 20.09.06

