

Supplement
to the
Annual Report 2007

Berlin 2007

Supplement, Annual Report 2007

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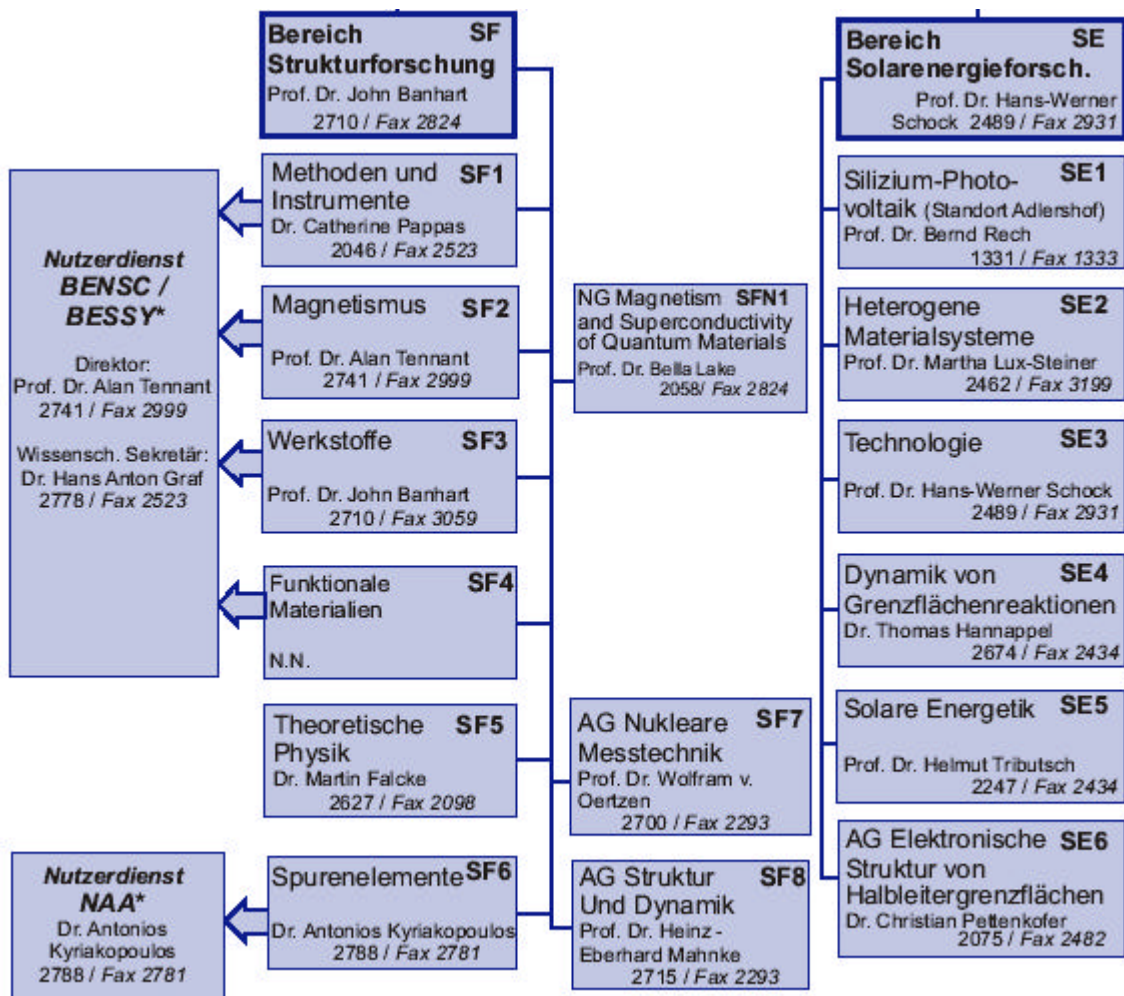
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Preface

This supplement to the Annual Report 2007 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 2007 reads as follows:



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.External 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			
SF5	SF5.Soft Matter SF5.Hard Matter SF5.Biosystems				
SF6		SF6.NAA		SF6.Analysis SF6.Proteins	
SF7	SF7.Q3D SF7.Detector				
SF8	SF8.Dynamics SF8.Structures				
SFN1	SFN.1 Magnetism				
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

Berti, D. ; Baldelli Bombelli, F. ; Fortini, M. ; Baglioni, P.

Amphiphilic self-assemblies decorated by nucleobases

Journal of Physical Chemistry B

111 (2007) 11734 - 11744

Garlea, V.O. ; Zheludev, A. ; Masuda, T. ; Manaka, H. ; Regnault, L.-P. ; Ressouche, E. ; Grenier, B. ; Chung, J.-H. ; Qiu, Y. ; Habicht, K. ; Kiefer, K. ; Boehm, M.

Excitations from a Bose-Einstein condensate of magnons in coupled spin ladders

Physical Review Letters

98 (2007) 167202/1 - 4

Hahn-Meitner-Institut Berlin / Berlin Neutron Scattering Center. Stahnke, U. ; Brandt, A. ; Graf, H.A. [Eds.]

BENSC experimental reports 2006

(HMI-B 612)

Hahn-Meitner-Institut, Berlin, 2007

Hernandez-Velasco, J.

Unusual magnetic behaviour in Sr₂PrO₄

Journal of Magnetism and Magnetic Materials

310 (2) (2007) 1669 - 1671

Krockenberger, Y. ; Reehuis, M. ; Cristiani, G. ; Ritter, C. ; Habermeier, H.-U. ; Alff, L.

Neutron scattering and magnetic behavior of Na_xRhO₂

Physica C

460-462 (2007) 468 - 470

Lee, S.-H. ; Kikuchi, H. ; Qiu, Y. ; Lake, B. ; Huang, Q. ; Habicht, K. ; Kiefer, K.

Quantum-spin-liquid states in the two-dimensional kagome antiferromagnets : ZnCu_{4-x}(OD)₆Cl₂

Nature Materials

6 (2007) 853 - 857

Maccarini, M. ; Steitz, R. ; Himmelhaus, M. ; Fick, J. ; Tatur, S. ; Wolff, M. ; Grunze, M. ; Janecek, J. ; Netz, R.R.

Density depletion at solid-liquid interfaces: a neutron reflectivity study

Langmuir

23 (2007) 598 - 608

Nicklas, M. ; Stockert, O. ; Park, T. ; Habicht, K. ; Kiefer, K. ; Pham, L.D. ; Thompson, J.D. ; Fisk, Z. ; Steglich, F.

Magnetic structure of Cd-doped CeCoIn₅

Physical Review B

76 (2007) 052401/1 - 4

Rebelo Kornmeier, J. ; Hofmann, M. ; Schmidt, S.

Non-destructive testing of satellite nozzles made of carbon fibre ceramic matrix composite, C/SiC

Materials Characterization

58 (2007) 922 - 927

Schröder-Smeibidl, B.

Projektvorstellung : Gemälde alter Meister - gesehen mit den Augen der Neutronen:

Gemäldeforschung mittels Neutronenautoradiografie am Hahn-Meitner-Institut Berlin

In: Bilder ohne Betrachter

Akademie Verlag, Berlin, 2007, 112 - 114

Wilson, S.D. ; Li, S. ; Zhao, J. ; Mu, G. ; Wen, H.-H. ; Lynn, J. W. ; Freeman, P.G. ; Regnault, L.-P. ; Habicht, K. ; Dai, P.

Quantum spin correlations through the superconducting-to-normal phase transition in electron-doped superconducting $\text{Pr}_{0.88}\text{LaCe}_{0.12}\text{CuO}_{4-d}$

Proceedings of the National Academy of Sciences of the United States of America
104 (2007) 15259 - 15263

Zheludev, A. ; Garlea, V.O. ; Masuda, T. ; Manaka, H. ; Regnault, L.-P. ; Ressouche, E. ; Grenier, B. ; Chung, J.-H. ; Qiu, Y. ; Habicht, K. ; Kiefer, K. ; Boehm, M.

Dynamics of quantum spin liquid and spin solid phases in IPA-CuCl_3 under an applied magnetic field studied with neutron scattering

Physical Review B
76 (2007) 054450/1 - 10

SF1.BENSC

Alba, M. ; Pouget, S. ; Fouquet, P. ; Farago, B. ; Pappas, C.

Dynamical scaling and critical scattering in pure and disordered ferromagnets probed by NSE

Physica B
397 (01.Feb) (2007) 102 - 104

Betti, F. ; Baldelli Bombelli, F. ; Berti, D. ; Bonini, M. ; Brandt, A. ; Baglioni, P.

Microstructure of ternary system di-lauroylphosphatidyl-adenosine/water/cyclohexane

Journal of Applied Crystallography
40 (2007) s240 - s244

Bowers, J. ; Zorbakhsh, A. ; McLure, I.A. ; Webster, J.R.P. ; Steitz, R. ; Christenson, H.K.

Composition profile of a wetting film in a binary mixture

Journal of Physical Chemistry C
111 (2007) 5568 - 5571

Estrela-Lopis, I. ; Leporatti, St. ; Typlt, E. ; Clemens, D. ; Donath, E.

Small angle neutron scattering investigations (SANS) of polyelectrolyte multilayer capsules templated on human red blood cells

Langmuir
23 (2007) 7209 - 7215

Gopinadhan, M. ; Ivanova, O. ; Ahrens, H. ; Günther, J.-U. ; Steitz, R. ; Helm, C.A.

The influence of secondary interactions during the formation of polyelectrolyte multilayers: layer thickness, bound water and layer interpenetration

Journal of Physical Chemistry B
111 (2007) 8426 - 8434

Haas, H. ; Steitz, R. ; Fasano, A. ; Liuzzi, G.M. ; Polverini, E. ; Cavatorta, P. ; Riccio, P. ;

Laminar order within Langmuir-Blodgett multilayers from phospholipid and myelin basic protein: A neutron reflectivity study

Langmuir
23 (2007) 8491 - 8496

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

Stress-Spec: Advanced materials science at the FRM II

Neutron News
18 (4) (2007) 27 - 30

Jauch, W. ; Reehuis, M.

Electron density distribution in alpha-iron: A gamma-ray diffraction study

Physical Review B
76 (2007) 235121/1 - 8

Kiefer, K. ; Haueisen, R. ; Weiss, G.

Magnetic field dependence of a capacitance temperature sensor

Journal of Low Temperature Physics

147 (03.Apr) (2007) 517 - 524

Lee, H.-Y. ; Lee, S.-H. ; Lee, J.-H. ; Wimpory, R. ; Nikbin, K. M.

Residual stress distributions for plate T-butt welds in defect assessment applications

Journal of ASTM International

4 (2007) (1 - 10)

Nefeodova, E.V. ; Tiden, N.N. ; Siemensmeyer, K. ; Alekseev, P.A. ; Lazukov, V.N. ; Sadikov, I.P. ; Shitsevalova, N.Yu.

Neutron studies of crystal-field effects in PrB₆

Journal of Experimental and Theoretical Physics

105 (1) (2007) 12 - 13

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

Residual stress analysis by means of neutron diffraction at research reactors - facilities and applications at the HFR

In: Characterization and Testing of Materials for Nuclear Reactors. Proceedings of a Technical Meeting held in Vienna, 29 May-2 June 2006

2007, 69 - 85

Rule, K.C. ; Ehlers, G. ; Stewart, J.R. ; Cornelius, A.L. ; Deen, P.P. ; Qiu, Y. ; Wiebe, C.R. ; Janik, J.A. ; Zhou, H.D. ; Antonio, D. ; Woytko, B.W. ; Ruff, J.P. ; Dabkowska, H.A. ; Gaulin, B.D. ; Gardner, J.S.

Polarized inelastic neutron scattering of the partially ordered Tb₂Sn₂O₇

Physical Review B

76 (2007) 212405/1 - 4

Saurel, D. ; Simon, Ch. ; Brulet, A. ; Heinemann, A. ; Martin, C.

Small-angle neutron scattering study of the steplike magnetic transformation in Pr_{0.70}Ca_{0.30}MnO₃

Physical Review B

75 (18) (2007) 184442/1 - 6

Schreiber, A. ; Ketelsen, I. ; Findenegg, G.H. ; Hoinkis, E.

Thickness of adsorbed nitrogen films in SBA-15 silica from small-angle neutron diffraction

Studies in Surface Science and Catalysis

160 (2007) 17 - 24

Sel, O; Brandt, A; Wallacher, D; Thommes, M; Smarsly, B

Pore hierarchy in mesoporous silicas evidenced by in-situ SANS during nitrogen physisorption

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23 (2007) 4724 - 4727

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Field-driven phase transitions in a quasi-two-dimensional quantum antiferromagnet

New Journal of Physics

9 (2007) 31/1 - 32

Strobl, M. ; Treimer, W. ; Ritzoulis, C. ; Wagh, A.G. ; Abbas, S. ; Manke, I.

The new V12 ultra-small-angle neutron scattering and tomography instrument at the Hahn-Meitner Institut

Journal of Applied Crystallography

40 (2007) s463 – s465

Strobl, M; Treimer, W; Walter, P; Keil, S; Manke, I

Magnetic field induced differential neutron phase contrast imaging

Applied Physics Letters

91 (2007) 254104/1 - 3

Triolo, A. ; Russina, O. ; Bleif, H.-J. ; Di Cola, E.

Nanoscale segregation in room temperature ionic liquids

Journal of Physical Chemistry B
111 (18) (2007) 4641 - 4644

Witte, U. ; Stockert, O. ; Schedler, R. ; Regnault, L.P. ; Loewenhaupt, M.

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PHYSICA B
397 (01.Feb) (2007) 20 - 22

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High-field magnetization and magnetic structure of Tb₃Co

Journal of Physics: Condensed Matter
19 (2007) 326213/1 - 14

Baranov, N.V. ; Maksimov, V.I. ; Mesot, J. ; Pleschov, V.G. ; Podlesnyak, A. ; Pomjakushin, V. ; Selezneva, N.V.

Possible reappearance of the charge density wave transition in M_xTiSe₂ compounds intercalated with 3d metals

Journal of Physics: Condensed Matter
19 (2007) 016005/1 - 12

Baranov, N.V. ; Proshkin, A.V. ; Gerasimov, E.G. ; Podlesnyak, A. ; Mesot, J.

Enhanced magnetic entropy in GdNi₂

Physical Review B
75 (2007) 092402/1 - 4

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Structural properties of the heavy fermion antiferromagnet UPd₂Sb

Journal of Magnetism and Magnetic Materials
316 (2007) e435 - e437

Bringezu, F. ; Wen, S. ; Dante, S. ; Hauss, T. ; Majerowicz, M. ; Waring, A.

The insertion of the antimicrobial peptide dicynthaurin monomer in model membranes: thermodynamics and structural characterization

Biochemistry
46 (2007) 5678 - 5686

Buchsteiner, A. ; Lechner, R.E. ; Hauß, Th. ; Dencher, N.

Dynamics in biological membranes from neutron scattering and dielectric spectroscopy experiments

In: Quasi-elastic neutron scattering conference 2006 : proceedings of the 8th International Conference on ...
June 14-17, 2006, QENS2006, Bloomington, Indiana, USA, eds. Sokol, P.E. [u.a.]
Materials Research Society, Pittsburgh, Penn., 2007, 73 - 83

Buchsteiner, A. ; Lechner, R.E. ; Hauß, Th. ; Dencher, N.A.

Relationship between structure, dynamics and function of hydrated purple membrane investigated by neutron scattering and dielectric spectroscopy

Journal of Molecular Biology
371 (2007) 914 - 923

Conder, K. ; Podlesnyak, A. ; Pomjakushina, E. ; Pomjakushin, V. ; Stingaciu, M. ; Karkin, A.E.

Transport properties and oxygen isotope effect in layered cobaltites RBaCo₂O_{5+x}

Journal of Magnetism and Magnetic Materials
310 (2007) 907 - 909

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Layered cobaltites: synthesis, oxygen nonstoichiometry, transport and magnetic properties

Acta Physica Polonica A

111 (2007) 7 - 14

Coomer, F.C. ; Bondah-Jagalu, V. ; Grant, K.J. ; Harrison, A. ; McIntyre, G.J. ; Rønnow, H.M. ; Feyerherm, R. ; Wand, T. ; Meißner, M. ; Visser, D. ; McMorrow, D.F.

Neutron diffraction studies of nuclear and magnetic structures in the S=1/2 square Heisenberg antiferromagnets (d₆-5CAP)₂CuX₄ (X=Br and Cl)

Physical Review B

75 (2007) 094424/1 - 11

De Stefanis, A. ; Tomlinson, A.A.G. ; Steriotis, Th.A. ; Charalambopoulou, G.Ch. ; Keiderling, U.

Study of structural irregularities of smectite clay systems by small-angle neutron scattering and adsorption

Applied Surface Science

253 (2007) 5633 - 5639

Denks, I.A. ; Genzel, Ch.

Enhancement of energy dispersive residual stress analysis by consideration of detector electronic effects

Nuclear Instruments and Methods in Physics Research B

262 (2007) 87 - 94

Efimov, V. ; Efimova, E. ; Karpinsky, D. ; Kochubey, D.I. ; Kriventsov, V. ; Kuzmin, A. ; Molodtsov, S. ; Sikolenko, V. ; Purans, J. ; Tiutiunnikov, S. ; Troyanchuk, I.O. ; Shmakov, A.N. ; Vyalikh, D.

XAFS and neutron diffraction study of La_{1-x}Sr_xCo_{1-y}Nb_yO₃

Nuclear Instruments and Methods in Physics Research A

575 (2007) 176 - 179

Efimov, V. ; Efimova, E. ; Karpinsky, D. ; Kochubuy, D.I. ; Kriventsov, V. ; Kuzmin, A. ; Molodtsov, S. ; Sikolenko, V. ; Tiutiunnikov, S. ; Troyanchuk, I.O. ; Shmakov, A.N. ; Vyalikh, D.

XAFS and neutron diffraction study of the La_{1-x}Sr_xCoO₃

Physica Status Solidi C

4 (2007) 805 - 808

Ehlers, G. ; Ritter, C. ; Stewart, JR. ; Hillier, AD. ; Maletta, H

Phase transition of geometrically frustrated TbNiAl in a magnetic field

Physical Review B

75 (2007) 24420

Frontzek, M. ; Kreyssig, A. ; Doerr, M. ; Schneidewind, A. ; Hoffmann, J.-U. ; Loewenhaupt, M.

Frustration in R₂PdSi₃ (R=Tb, Er) compounds: spin-glass or magnetic short range order? Neutron diffraction studies

Journal of Physics: Condensed Matter

19 (2007) 145276/1 - 9

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

Impurity- and field-induced magnetic orderings in doped quantum antiferromagnet TICu_{1-x}Mg_xCl₃

Journal of Magnetism and Magnetic Materials

310 (2007) 1357 - 1359

Glavatsky, I. ; Glavatska, N. ; Dobrinsky, A. ; Hoffmann, J.-U. ; Söderberg, O. ; Hannula, S.-P.

Crystal structure and high-temperature magnetoplasticity in the new Ni-Mn-Ga-Cu magnetic shape memory alloys

Scripta Materialia

56 (2007) 565 - 568

Gondek, L. ; Szytula, A. ; Kaczorowski, D. ; Prokhnenko, O. ; Nenkov, K.

Complex magnetic phase transitions in $\text{Ho}_3\text{Cu}_4\text{Si}_4$

Phase Transitions

80 (2007) 563 - 573

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Complex magnetic properties of $\text{Ho}_3\text{Cu}_4\text{Sn}_4$

Intermetallics

15 (2007) 583 - 592

Havela, L. ; Miliyanchuk, K. ; Kolomiets, A.V. ; Pereira, L.C.J. ; Gonçalves, A.P. ; Santav, E. ; Prokes, K.

5f magnetism studied in complex intermetallic U-based hydrides

Journal of Alloys and Compounds

446-447 (2007) 606 - 609

Heczko, O. ; Prokes, K. ; Hannula, S.-P.

Neutron diffraction studies of magnetic-shape memory Ni-Mn-Ga single crystal

Journal of Magnetism and Magnetic Materials

316 (2007) 386 - 389

Hutanu, V. ; Rupp, A. ; Klenke, J. ; Heil, W. ; Schmiedeskamp, J.

Magnetization of ^3He spin filter cells

Journal of Physics D

40 (2007) 4405 - 4412

Hutanu, V. ; Rupp, A. ; Sander-Thömmes, T.

SQUID measurements of remanent magnetisation in refillable ^3He spin filter cells (SFC)

Physica B

397 (2007) 185 - 187

Jalarvo, N. ; Aliouane, N. ; Bordallo, H.N. ; Milne, C.J. ; Veira, J.R. ; Argyriou, D.N.

Rotational motion of the water molecules in the superconductor $\text{Na}_{0.28}\text{CoO}_2\cdot y\text{H}_2\text{O}$

European Physical Journal - Special Topics

141 (2007) 69 - 72

Jaworska-Golab, T. ; Penc, B. ; Baran, S. ; Stuesser, N. ; Szytula, A.

Neutron diffraction studies of pseudoternary $\text{TbRu}_{2-x}\text{Pd}_x\text{Si}_2$

Journal of Alloys and Compounds

442 (01.Feb) (2007) 165 - 168

Kamarad, J. ; Prokhnenko, O. ; Prokes, K. ; Arnold, Z. ; Andreev, A.V.

Pressure induced helimagnetism in Fe-based (Y_2Fe_{17} , $\text{Lu}_2\text{Fe}_{17}$) intermetallic compounds

Journal of Magnetism and Magnetic Materials

310 (2007) 1801 - 1803

Kanetsuki, S. ; Mitsuda, S. ; Nakajima, T. ; Anazawa, D. ; Katori, H.A. ; Prokes, K.

Field-induced ferroelectric state in frustrated magnet $\text{CuFe}_{1-x}\text{Al}_x\text{O}_2$

Journal of Physics: Condensed Matter

19 (2007) 145244/1 - 7

Karpinsky, D.V. ; Troyanchuk, I.O. ; Sikolenko, V.V.

Inhomogeneous magnetic states in Fe and Cr substituted LaMnO_3

Journal of Physics: Condensed Matter

19 (2007) 036220/1 - 9

Khalyavin D.D. ; Senos A.M.R. ; Mantas P.Q. ; Argyriou D.N. ; Tarroso Gomes I. ; Vieira L.G. ; Ribeiro J.L.

Structure and dielectric characterization of a new A-site deficient $\text{La}_{5/3}\text{MgTaO}_6$ perovskite

Journal of Solid State Chemistry

180 (2007) 41 - 48

Khalyavin, D.D. ; Argyriou, D.N. ; Amann, U. ; Yaremchenko, A.A. ; Kharton, V.V.

Spin-state ordering and magnetic structures in the cobaltites $\text{YBaCo}_2\text{O}_{5+d}$ ($d=0.50$ and 0.44)

Physical Review B
75 (2007) 134407/1 - 15

Kirstein, O. ; Prager, M. ; Grimm, H. ; Buchsteiner, A. ; Wischnewski, A.

Quasielastic neutron scattering experiments including activation energies and mathematical modeling of methyl halide dynamics

The Journal of Chemical Physics
127 (2007) 094504/1 - 7

Krockenberger, Y. ; Mogare, K. ; Reehuis, M. ; Tovar, M. ; Jansen, M. ; Vaitheeswaran, G. ; Kanchana, V. ; Bultmark, F. ; Delin, A. ; Wilhelm, F. ; Rogalev, A. ; Winkler, A. ; Alff, L.

$\text{Sr}_2\text{CrOsO}_6$: End point of a spin-polarized metal-insulator transition by 5d band filling

Physical Review B
75 (2) (2007) 020404/1 - 4

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A neutron scattering study of the crystal and magnetic structure of $\text{Sr}_2\text{CrOsO}_6$

Journal of Magnetism and Magnetic Materials
310 (2) (2007) 1854 - 1856

Lazukov, V.N. ; Nefedova, E.V. ; Tiden, N.N. ; Siemensmeyer, K. ; Buchsteiner, A. ; Alekseev, P.A. ; Shitsevalova, N.Yu.

Temperature evolution of Pr-ion magnetic response in PrB_6

Journal of Alloys and Compounds
442 (2007) 180 - 182

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Biological-function related dynamics in bacteriorhodopsin: Method of QENS analysis

In: Quasi-elastic neutron scattering conference 2006 : proceedings of the 8th International Conference on ...
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Materials Research Society, Pittsburgh, Penn., 2007, 63 - 71

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Journal of Physics: Condensed Matter
19 (2007) 286201/1 - 10

Mazin, I.I. ; Khomskii, D.I. ; Lengsdorf, R. ; Alonso, J.A. ; Marshall, W.G. ; Ibberson, R.M. ; Podlesnyak, A. ; Martinez-Lope, M.J. ; Abd-Elmeguid M.M.

Charge ordering as alternative to Jahn-Teller distortion

Physical Review Letters
98 (2007) 176406/1 - 4

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Peculiarities of $\text{U}_2\text{T}_2\text{X}$ hydrides

Journal of Magnetism and Magnetic Materials
310 (2007) 945 - 947

Nakajima, T. ; Mitsuda, S. ; Kanetsuki, S. ; Prokes, K. ; Podlesnyak, A. ; Kimura, H. ; Noda, Y.

Spin noncollinearity in multiferroic phase of triangular lattice antiferromagnet $\text{CuFe}_{1-x}\text{Al}_x\text{O}_2$

Journal of the Physical Society of Japan
76 (2007) 043709/1 - 4

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Quadrupolar ordered state at high fields in PrPb_3

Journal of Physics and Chemistry of Solids
68 (2007) 2091 - 2094

Pieper, J. ; Hauss, Th. ; Buchsteiner, A. ; Baczynski, K. ; Adamiak, K. ; Lechner, R.E. ; Renger, G.
Temperature- and hydration-dependent protein dynamics in photosystem II of green plants studied by quasielastic neutron scattering

Biochemistry
46 (2007) 11398 - 11409

Plugaru, N. ; Rubin, J. ; Bartolome, J. ; Campo, J. ; Cuello, G.J. ; Tovar, M. ; Prokhnenko, O.
Powder neutron diffraction of $\text{Nd}_3\text{Co}_{13-x}\text{Ni}_x\text{B}_2$ compounds

Journal of Magnetism and Magnetic Materials
316 (2007) e438 - e441

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Effect of light Sr doping on the spin-state transition in LaCoO_3

Journal of Magnetism and Magnetic Materials
310 (2007) 1552 - 1554

Podlesnyak, A. ; Karkin, A. ; Conder, K. ; Pomjakushina, E. ; Stingaciu, M. ; Allenspach, P.
Magnetic and electric transport properties of $\text{TbBaCo}_2\text{O}_{5.5}$ single crystal

Journal of Magnetism and Magnetic Materials
316 (2007) e710 - e712

Podlesnyak, A. ; Pomjakushin, V. ; Pomjakushina, E. ; Conder, K. ; Furrer, A.
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Physica Status Solidi / Rapid Research Letters

1 (2007) 187 - 189

Abou-Ras, D. ; Schorr, S. ; Schock, H.W.

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Journal of Applied Crystallography

40 (2007) 841 - 848

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Solar Energy Materials and Solar Cells

91 (2007) 85 - 90

Cwil, M; Igalson, M; Zabierowski, P; Kaufmann, CA; Neisser, A

Capacitance profiling in the CIGS solar cells

Thin Solid Films

515 (2007) 6229 - 6232

Sakurai, K; Neumann, T; Hesse, R; Abou-Ras, D; Jablonski, P; Neisser, A; Kaufmann, C; Niki, S; Scheer, R; Schock, HW

Characteristics of scattered laser light signals from Cu(In,Ga)Se₂ films

Thin Solid Films

515 (2007) 6222 - 6225

Weber, A. ; Kötschau, I. ; Schock, H.W.

Monitoring In-Ga interdiffusion during chalcopyrite formation in Ga_xS_y-(Cu,In) photovoltaic precursor layers

Thin Solid Films

515 (2007) 6252 - 6255

SE3.Others

Kötschau, I.M. ; Weber, A. ; Pistor, P. ; Laueremann, I. ; Fischer, Ch.-H. ; Schock, H.W.

Advanced X-ray methods for chalcogenide thin film analysis

Thin Solid Films

515 (2007) 5992 - 5996

Schorr, S.

Structural aspects of adamantine like multinary chalcogenides

Thin Solid Films

515 (2007) 5985 - 5991

Schorr, S. ; Hoebler, H.-J. ; Tovar, M.

A neutron diffraction study of the stannite-kesterite solid solution series

European Journal of Mineralogy

19 (2007) 65 - 73

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

Comparative studies of the structure and microstructure of $Zn_{2x}(CuB^{III})_{1-x}X_2$ semiconductors ($B^{III}=Ga,In$; $X=S,Se,Te$)

In: Thin-film compound semiconductor photovoltaics 2007 : symposium held April 9 - 13, 2007, San Francisco, California, U.S.A, eds. Gessert, T. [u.a.]

Materials Research Soc., Warrendale, Pa., 2007, 1012-Y03-05

Weber, A. ; Kötschau, I. ; Schorr, S. ; Schock, H.-W.

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In: Thin-film compound semiconductor photovoltaics 2007 : symposium held April 9 - 13, 2007, San Francisco, California, U.S.A, eds. Gessert, T. [u.a.]

Materials Research Soc, Warrendale, Pa., 2007, 1012-Y03-35

SE4 - Dynamics of interfacial reactions

SE1.Hetero

Stegemann, B. ; Sixtensson, D. ; Lussy, T. ; Bloeck, U. ; Schmidt, M.

Ultrahigh vacuum preparation and passivation of abrupt $SiO_2/Si(111)$ interfaces

Chimia

61 (2007) 826 - 830

SE4.Cells

Bork, T.

New approaches to the III-V on silicon heteroepitaxy

Berlin, Humboldt-Univ., Diss., 2007

Bork, T. ; McMahon, W.E. ; Olson, J.M. ; Hannappel, T.

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Journal of Crystal Growth

298 (2007) 54 - 58

Hannappel, T. [Ed.]

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2007

Hannappel, T; Königstein, C; Calzaferri, G

Transformation and storage of solar energy

CHIMIA

61 (2007) 768 - 769

Sagol, B.E. ; Seidel, U. ; Szabó, N. ; Höhn, C. ; Schwarzburg, K. ; Hannappel, T.

Progress in the development of an InGaAsP/InGaAs tandem solar cell

In: 22nd European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Milan, Italy, 3 - 7 September 2007

WIP, Munich, 2007, 524 - 527

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Basic concepts and interfacial aspects of high-efficiency III-V multijunction solar cells

Chimia

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Seidel, U.

Grenzflächenuntersuchungen am Tunnelkontakt einer MOCVD-präparierten Tandemsolarzelle

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InGaAsP/InGaAs tandem solar cells

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Journal of Crystal Growth

298 (2007) 777 - 781

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Journal of Physical Chemistry C

111 (2007) 8692 - 8698

Tornow, J. ; Schwarzburg, K.

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In: Solar Energy Conversion, eds. Beard, M.

Materials Research Society, Warrendale, Pa., 2007, 0974-CC10-27(1-4)

SE4.Dynamics

Gundlach, L. ; Ernstorfer, R. ; Willig, F.

Dynamics of photoinduced electron transfer from adsorbed molecules into solids

Applied Physics A

(2007) 481 - 495

Gundlach, L. ; Ernstorfer, R. ; Willig, F.

Ultrafast interfacial electron transfer from the excited state of anchored molecules into a semiconductor

Progress in Surface Science

82 (2007) 355 - 377

Gundlach, L. ; Ernstorfer, R. ; Willig, F.

Pathway-dependent electron transfer for rod-shaped perylene-derived molecules adsorbed in nanometer-size TiO₂ cavities

Journal of Physical Chemistry C

111 (2007) 13586 - 13594

Gundlach, L. ; Szarko, J. ; Socaciu-Siebert, L.D. ; Neubauer, A. ; Ernstorfer, R. ; Willig, F.

Different orientations of large rigid organic chromophores at the rutile TiO₂ surface controlled by different binding geometries of specific anchor groups

Physical Review B
75 (2007) 125320/1 – 8

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Time-resolved electron transfer from the excited singlet state of anchored perylene into Ag(110)

Chemical Physics Letters
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Szarko, J. ; Neubauer, A. ; Socaciu-Siebert, L. ; Eichberger, R.

Ultrafast interfacial carrier dynamics

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SE4.Others

Janata, E.

Examples of UV absorption measurements at the pulse radiolysis facility ELBENA

Radiation Physics and Chemistry
76 (2007) 1275 - 1279

Janata, E.

Instrumentation of kinetic spectroscopy-21. The use of a compact size photomultiplier tube in kinetic spectroscopy

Radiation Physics and Chemistry
76 (2007) 1156 - 1159

Sarkar, A. ; Janata, E.

Formation of the silver hydride ion AgH⁺ upon the reduction of silver ions by H[•] in aqueous solution. A pulse radiolysis study

Zeitschrift für Physikalische Chemie
221 (2007) 403 - 413

SE5 - Solar energy

SE5.Energetics

Beranek, R. ; Neumann, B. ; Sakthivel, S. ; Janczarek, M. ; Dittrich, Th. ; Tributsch, H. ; Kisch, H.

Exploring the electronic structure of nitrogen-modified TiO₂ photocatalysts through photocurrent and surface photovoltage studies

Chemical Physics
339 (2007) 11 - 19

Brüser, V. ; Savastenko, N. ; Schmuhl, A. ; Junge, H. ; Herrmann, I. ; Bogdanoff, P. ; Schröder, K.

Plasma modification of catalysts for cathode reduction of hydrogen peroxide in fuel cells

Plasma Processes and Polymers
4 (2007) S94 - S98

Dittrich, Th. ; Neumann, B. ; Tributsch, H.

Sensitization via reversibly inducible Ru(dcbpyH₂)₂(NCS)₂-TiO₂ charge transfer complex

Journal of Physical Chemistry C
111 (2007) 2265 - 2269

Fiechter, S. ; Dorbandt, I. ; Bogdanoff, P. ; Zehl, G. ; Schulenburg, H. ; Tributsch, H. ; Bron, M. ; Radnik, J. ; Fieber-Erdmann, M.

Surface modified ruthenium nanoparticles: structural investigation and surface analysis of a novel catalyst for oxygen reduction

Journal of Physical Chemistry C
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Kolary-Zurowska, A. ; Zieleniak, A. ; Miecznikowski, K. ; Baranowska, B. ; Lewera, A. ; Fiechter, S. ; Bogdanoff, P. ; Dorbandt, I. ; Marassi, R. ; Kulesza, P.J.

Activation of methanol-tolerant carbon-supported RuSe_x electrocatalytic nanoparticles towards more efficient oxygen reduction

Journal of Solid State Electrochemistry
11 (2007) 915 - 921

Kulesza, P.J. ; Miecznikowski, K. ; Baranowska, B. ; Skunik, M. ; Kolary-Zurowska, A. ; Lewera, A. ; Karnicka, K. ; Chojak, M. ; Rutkowska, I. ; Fiechter, S. ; Bogdanoff, P. ; Dorbandt, I. ; Zehl, G. ; Hiesgen, R. ; Dirk, E. ; Nagabhushana, K.S. ; Boennemann, H.

Electroreduction of oxygen at tungsten oxide modified carbon-supported RuSe_x nanoparticles

Journal of Applied Electrochemistry
37 (2007) 1439 - 1446

Kunst, M. ; Goubard, F. ; Colbeau-Justin, C. ; Wunsch, F.

Electronic transport in semiconductor nanoparticles for photocatalytic and photovoltaic applications

Materials Science and Engineering C
27 (2007) 1061 - 1064

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Silicon-organic pigment material hybrids for photovoltaic application

Solar Energy Materials and Solar Cells
91 (2007) 1873 - 1886

Moehl, T. ; Kunst, M. ; Wunsch, F. ; Tributsch, H.

Consistency of photoelectrochemistry and photoelectrochemical microwave reflection demonstrated with p- and n-type layered semiconductors like MoS₂

Journal of Electroanalytical Chemistry
609 (2007) 31 - 41

Nagabhushana, K.S. ; Dinjus, E. ; Bönnemann, H. ; Zaikovskii, V. ; Hartnig, C. ; Zehl, G. ; Dorbandt, I. ; Fiechter, S. ; Bogdanoff, P.

Reductive annealing for generating Se doped 20 wt% Ru/C cathode catalysts for oxygen reduction reaction

Journal of Applied Electrochemistry
37 (2007) 1515 - 1522

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Journal of Vacuum Science and Technology A
25 (2007) 1341 - 1350

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Photoinduced excess carrier dynamics in PLD-grown ZnO

Superlattices and Microstructures
42 (2007) 270 - 277

Reuther, C. ; Rojas-Chapana, J. ; Fiechter, S. ; Tributsch, H.

The protective triterpene layer of the desert plant *Sarcocaulon Patersonii*: A bionic model for innovative PV encapsulation?

Solar Energy Materials and Solar Cells
91 (2007) 1350 - 1360

Sanguino, P. ; Schwarz, R. ; Wilhelm, M. ; Kunst, M. ; Teodoro, O.

Morphology and composition of GaN films grown by cyclic-pulsed laser deposition

Vacuum
81 (2007) 1524 - 1528

Sirimanne, P.M. ; Tributsch, H.

Generation of inhomogeneous photocurrent in solid-state TiO₂/dye/CuI cells and effect of ligands attached to surfactant on morphology of CuI films

Solar Energy
81 (2007) 535 – 539

Toetzke, C; Tributsch, H; Szabo, N

Tensile water technology - An effort to learn from trees

Comparative Biochemistry and Physiology A-Molecular & Integrative Physiology
146 (2007) S133

Tributsch, H.

Multi-electron transfer catalysis for energy conversion based on abundant transition metals

Electrochimica Acta
52 (2007) 2302 - 2316

Tributsch, H. ; Neumann, B.

Material research challenges towards a corrosion stable photovoltaic hydrogen-generating membrane

International Journal of Hydrogen Energy
32 (2007) 2679 - 2688

Tributsch, H. ; Rojas-Chapana, J.

Bacterial strategies for obtaining chemical energy by degrading sulfide minerals

In: Biomining, eds. Rawlings, D.E. [u.a.]
Springer, Berlin, 2007, 263 - 280

Wei, V. ; Seeger, S. ; Ellmer, K. ; Mientus, R.

Reactive magnetron sputtering of tungsten disulfide (WS_{2-x}) films: Influence of deposition parameters on texture, microstructure, and stoichiometry

Journal of Applied Physics
101 (2007) 103502/1 - 9

Wippermann, K. ; Richter, B. ; Klafki, K. ; Mergel, J. ; Zehl, G. ; Dorbandt, I. ; Bogdanoff, P. ; Fiechter, S. ; Kaytakoglu, S.

Carbon supported Ru-Se as methanol tolerant catalysts for DMFC cathodes. Part II: preparation and characterization of MEAs

Journal of Applied Electrochemistry
37 (2007) 1399 - 1411

Zehl, G. ; Bogdanoff, P. ; Dorbandt, I. ; Fiechter, S. ; Wippermann, K. ; Hartnig, C.

Carbon supported Ru-Se as methanol tolerant catalysts for DMFC cathodes. Part I: preparation and characterization of catalysts

Journal of Applied Electrochemistry
37 (2007) 1475 - 1484

Zehl, G. ; Schmithals, G. ; Hoell, A. ; Haas, S. ; Hartnig, C. ; Dorbandt, I. ; Bogdanoff, P. ; Fiechter, S.
On the structure of carbon-supported selenium-modified ruthenium nanoparticles as electrocatalysts for oxygen reduction in fuel cells
Angewandte Chemie / International Edition
46 (2007) 7311 - 7314

Zehl, G. ; Schmithals, G. ; Hoell, A. ; Haas, S. ; Hartnig, Ch. ; Dorbandt, I. ; Bogdanoff, P. ; Fiechter, S.
Die Struktur von selenmodifizierten Rutheniumnanopartikeln auf einem Kohleträger - Elektrokatalysatoren für die Sauerstoffreduktion in Brennstoffzellen
Angewandte Chemie
119 (2007) 7452 - 7455

SE5.Interfaces

Aggour, M. ; Skorupska, K. ; Stempel Perreira, T. ; Jungblut, H. ; Grzanna J. ; Lewerenz, H.J.
Photoactive silicon-based nanostructure by self-organized electrochemical processing
Journal of the Electrochemical Society
154 (2007) H794 - H797

Campbell, S.A. ; Smith, J.R. ; Jungblut, H. ; Lewerenz, H.J.
Protein imaging on a semiconducting substrate: A scanning tunnelling microscopy investigation
Journal of Electroanalytical Chemistry
599 (2007) 313 - 322

Grzanna, J. ; Jungblut, H. ; Lewerenz, H.J.
Nano- and macropores in the model for current oscillations at the Si/electrolyte contact
Physica Status Solidi A
204 (2007) 1245 - 1249

Lewerenz, H.J. ; Aggour, M. ; Stempel-Pereira, T. ; Lublow, M. ; Grzanna, J. ; Skorupska, K.
Photoactive device by electrochemical processing of silicon
In: The 3rd International IEEE Scientific Conference on Physics and Control (PhysCon 2007), Sept.3rd-7th 2007, at the University of Potsdam
2007, (1 - 3)

Lublow, M. ; Lewerenz, H.J.
Fractal photocorrosion of silicon electrodes in concentrated ammonium fluoride
Electrochemical and Solid-State Letters
10 (2007) C51 - C55

Lublow, M. ; Lewerenz, H.J.
Brewster-angle analysis of native and photoelectrochemically grown silicon oxide nanotopographies
Surface Science
601 (2007) 4227 - 4231

Lublow, M. ; Lewerenz, H.J.
Combined AFM and Brewster-angle analysis of gradually etched ultrathin SiO₂ - Comparison with SRPES results
Surface Science
601 (2007) 1693 - 1700

Lublow, M. ; Lewerenz, H. J.
Electrochemical conditioning of fractal topographies at the silicon oxide/silicon interface
In: The 3rd international IEEE scientific conference on physics and control (PhysCon 2007) : September 3rd-7th 2007 at the University of Potsdam, eds. Kurths, J. [u.a.]
Univ.-Verl., Potdam, 2007, (1 - 4)

Skorupska, K. ; Aggour, M. ; Kanis, M. ; Lublow, M. ; Jungblut, H. ;Lewerenz, H.J. ;

Electrochemically induced self-organized nanostructures on silicon for realization of a novel nanoemitter solar cell concept

Nanotechnology ; 209th ECS Meeting , May 7-May 12, 2006, Denver, Colorado
(2007) 1 - 9

Skorupska, K. ; Smith, J. ; Campbel, S.A. ; Jungblut, H. ; Lewerenz, H.J.

STM imaging of proteins on semiconducting substrates

Mechanistic Organic Electrochemistry, in Honor of the 80th Birthday of Professor Petr Zuman : 209th ECS Meeting , May 7-May 12, 2006, Denver, Colorado
(2007) 63 - 74

SE5 - Solar energy

Addenda to 2006

SE5.Energetics

Tributsch, H.

Quantum paradoxes, time and derivation of thermodynamic law: Opportunities from change of energy paradigm

Journal for General Philosophy of Science
37 (2006) 287 - 306

SE6 - Electronic structure of semiconductor interfaces

SE1.Hetero

Roodenko, K; Gensch, M; Rappich, J; Hinrichs, K; Esser, N; Hunger, R

Time-resolved synchrotron XPS monitoring of irradiation-induced nitrobenzene reduction for chemical lithography

Journal of Physical Chemistry B
111 (2007) 7541 - 7549

Conference Contributions

SF - Structural Research

SF - BENSC

BENSC.User

Invited Talk

Bordallo, H.N.

Crystalline Amino Acids: Their Mystery and Magic seen with a New Eye

European Conference on Metallobiolumics, Berlin, (Germany), 2007

HMI, Berlin, Germany 29. Nov - 30. Nov 2007

Poster

Heloisa N. Bordallo, Laurence P. Aldridge, G. Jock Churchman, Will P. Gates, Arnaud Desmedt, and Mark T.F Telling

Understanding Water Diffusion in Concrete and Clays

Diffusion Fundamentals II, Basic Principles of Theory, Experiment and Application

L'Aquila, Italy 26. Aug - 29. Aug 2007

Poster

Hernandez-Velasco, J, Aliouane, N.; Bordallo, H.N;

Monitoring the Design of New Molecular Magnets by Neutron Diffraction

4th European Conference in Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

SF1.BENSC

Poster

Boin, M.; Kardjilov, N.; Haibel, A.; Edwards, L.; Schneider, R.

Vector Tomography Methods for 3D Imaging of Stress and Texture Distributions Based on Bragg-edge Neutron Tomographic Experiments

ECNS 2007

Lund, Sweden 25. Jun - 29. Jun 2007

Oral

Boin, M.; Schneider, R.; Wimpory, R.; Haibel, A.; Edwards, L.

Vector tomography methods for 3D imaging of Stress and Texture distributions based on Bragg-Edge neutron tomography Experiments

Meca Sens IV - Conference on Stress Evaluation

Vienna, Austria 24. Sep - 26. Sep 2007

Poster

Casinini, Francesco; Petrillo, Caterina; Sacchetti, Francesco; Alimov, Svyatoslav, S.; Gebauer, Burckhard

Development of a High-Resolution Silicon Micro-Strip Neutron Detector in DETNI

4th European Conf. on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

Oral

Clemens, D.; Pappas, C.; Krist, Th.; Bleif, H.-J.; Peters, J.; Mezei, F.

Layout and performance of the new neutron guide bundle at BENSC

European Workshop on Neutron Optics

Viliigen, Switzerland 05. Mar - 07. Mar 2007

Invited Talk

Flemming, S.; Hofmann, J.-U.; Schneider, R.

Design einer Softwareumgebung für Instrumentsteuerungen

OpenInspire Meeting, DESY

DESY, Hamburg 10. Sep - 10. Sep 2007

Invited Talk

Jauch, W.

Electron densities in relation to magnetism

Symposium

Kopenhagen (Dänemark) 02. Feb - 02. Feb 2007

Invited Talk

Jauch, W.

Experimental electron densities from compounds with heavier elements: aspects of reliability

Electron Density Reconstruction from Diffraction Experiments on Compounds of Heavy Elements

Dresden 29. Nov - 30. Nov 2007

Oral

Mecklenburg, A.; Rolfs, K.; Guldbakke, J.-M.; Schneider, R.

Efficient Manufacture of MSM Alloy Single Crystals using a Synthetic Slag Cover

MRS Fall Meeting

Boston, USA 26. Nov - 30. Nov 2007

Oral

Rolfs, K.; Mecklenburg, A.; Guldbakke, J.M.; Hesselbach, J.; Schneider, R.

Development of MSMA-Driven Actuators based on Standardization of Single Crystal Growth, Treatment and Quality Assessment

DFG SPP1239 Fokusmeeting

Dresden 28. Feb - 01. Mar 2007

Oral

Rolfs, K.; Schneider, R.; Mecklenburg, A.; Guldbakke, J.M.; Hesselbach, J.

Development of MSMA-Driven Actuators based on Standardization of Single Crystal Growth, Treatment and Quality Assessment

DFG SPP1239 Meeting

Schloss Wesseling, Bonn 05. Sep - 06. Sep 2007

Oral

Rule, K.C.; Gardner, J.S.; Bentley, P.M.; Ruff, J.P.; Dabkowska, H.A.; Gaulin, B.D.

Inelastic neutron scattering of Tb₂Sn₂O₇

31st Annual Condensed Matter and Materials Meeting

Wagga Wagga, Australia 06. Feb - 09. Feb 2007

Oral

Rule, K.C.; Wolter, A.U.B.; Suellow, S.; Wolf, B.; Tennant, D.A.

Spin Dynamics in the plateau phase of the 1D distorted diamond chain azurite, Cu₃(CO₃)₂(OH)₂.

International Conference of Magnetic Materials 2007

Kolkata, India 11. Dec - 16. Dec 2007

Invited Talk

Schneider, R.

Synergie durch aktive Verzahnung von Werkstoffdesign und Prozessoptimierung mit dem Einsatz und der Entwicklung problemangepasster Charakterisierungsmethoden

Seminar FB Werkstoffwissenschaften, Universität des Saarlandes

Saarbrücken 31. Aug - 31. Aug 2007

Invited Talk

Schneider, R.; Freydank, H.; Dencks, I.; Wessels, H.; Ohnimus, S.

Diffraktometrische Eigenspannungsanalysen zur Validierung von Finite-Element-Methoden zur Rückfederungssimulation

INPRO Workshop Kaltumformung

Berlin 26. Apr - 26. Apr 2007

Invited Talk

Schneider, R.; Hofmann, J.-U.; Flemming, S.

Why an „Expert-like“ System for Instrument Control?

OpenInspire Workshop

DESY, Hamburg 10. Sep - 10. Sep 2007

Invited Talk

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

Diffraktometrische Restaustenitbestimmung mit Neutronen

AWT Fachausschuss Qualitätssicherung

GKSS; Geesthacht 13. Jun - 13. Jun 2007

Poster

Schneider, R.; Rolfs, K.; Wimpory, R.C.; Mecklenburg, A.

Neutrons: A Unique and Essential Tool on the Way to the Commercial Use of Novel Smart Materials

ECNS 2007

Lund 25. Jun - 29. Jun 2007

Oral

Schneider, R.; Wimpory, R.C.; Hofmann, M.

The New and Upgraded Materials Research Diffractometers at HMI and FRM II

NET Meeting

Athen 04. Jun - 05. Jun 2007

Invited Talk

Schneider, R.; Wimpory, R.C.; Hofmann, M.

Service for Industry and Current Developments at the German Large Scale Facilities Hahn-Meitner-Institute and FRM II

Workshop on Diffractometric Methods in Materials Science

Dubna, RU 20. Sep - 20. Sep 2007

Invited Talk

Schneider, R.; Wimpory, R.C.; Hofmann, M.; Brokmeier, H.G.

STRAINET Going Global - Stress and Texture Analysis: Standardizing Interfaces

STRAINET Going Global Meeting

Berlin 11. Oct - 12. Oct 2007

Invited Talk

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

Technical and Methodical Developments for Residual Stress Analysis at HMI/FRM II

IAEA CRP Meeting

Berlin 08. Oct - 11. Oct 2007

Invited Talk

Schneider, R.; Wimpory, R.C.; Hofmann, M.

Service for Industry at the German Large Scale Facilities Hahn-Meitner-Institute and FRM II

Workshop on Commercial Use of Neutrons

Oak Ridge, SNS 19. Apr - 19. Apr 2007

Invited Talk

Schneider, R.P.; Wimpory, R.C.; Poeste, T.; Hofmann, M.; Rebelo-Kornmeier, J.; Garbe, U.; Flemming, S.; Boin, M.

Residual Stress Analysis From the Volume to the Surface. Neutrons, X-Rays & New Tomographic Methods

Seminar des Fachbereichs Physik der TU München

Garching 12. Feb - 12. Feb 2007

Poster

Steitz, R.; Haas, H.; Fasano, A.; Gliozzi, A.; Cavatorta, P.; Riccio, P.;

Laminar Order within Langmuir-Blodgett Multilayers from Phospholipids and Myelin Basic Protein

4th European Conference on Neutron Scattering

Lund 25. Jun - 29. Jun 2007

Invited Talk

Wimpory, R.C.

“NET,1th SC_ MEETING NCSR “ Demokritos Athens (Greece), 4 - 5 June 2007

11th NET steering committee meeting,

Demokritos, Athens, Greece 04. Jun - 05. Jun 2007

Oral

Wimpory, R.C.

The averaging of neutron diffraction stress data from round robin campaigns

Meca Sens IV, Conference on Stress Evaluation. September 24-26, 2007, Vienna, Austria

Vienna, Austria 24. Sep - 26. Sep 2007

Invited Talk

Wimpory, R.C.

An overview of the TG1 neutron results: what have we learnt?

4th NET-PECO Workshop and Net Steering

Petten, Holland 03. Dec - 05. Dec 2007

Invited Talk

Wimpory, R.C.

Around the weld in a few minutes

FRM II User meeting

FRM II Munich 30. Oct - 30. Oct 2007

Poster

Wimpory, R.C. , Davies,C. M., Schneider, R., Nikbin , K. , ODowd, N. P.

Quantifying the Effects of Creep Relaxation and Prior Creep Damage by Measurement of Welded Fracture Mechanics Specimens Using Neutron Diffraction

4th EUROPEAN CONFERENCE

Lund, Sweden 25. Jun - 29. Jun 2007

SF2.BENSC

Poster

De la Rosa-Fox, N.; Morales-Florez, V.; Toledo-Fernandez, J.A.; Pinero, M.; Esquivias, L.; Keiderling, U.

SANS study on hybrid silica aerogels under in-situ uniaxial compression

XIVth International Sol-Gel Conference, Montpellier, France, September 2-7 2007

Montpellier 02. Sep - 07. Sep 2007

Poster

Morris, D.J.P., Roger, M., Tennant, D.A., Gutmann, M.J., Goff, J.P., Hoffmann, J.-U., Feyerherm, R., Dudzik, E., Prabhakaran, D., Boothroyd, A.T., Shannon, N., Lake, B., and Deen, P.P.

Stripe Phase Transition in Sodium Cobaltate

Orbital 2007

Stuttgart 10. Oct - 11. Oct 2007

Invited Talk

Stüßler, N.

Neutron powder diffraction as a tool to determine magnetic structures

XIXth International School on Physics and Chemistry of Condensed Matter

Bialowieza, Poland 07. Jul - 14. Jul 2007

Invited Talk

T. Hauss, J. Pieper, A. Buchsteiner, R. E. Lechner, N. A. Dencher.

Time-resolved protein dynamics during the photocycle of bacteriorhodopsin measured in real-time by quasielastic neutron scattering.

3rd Japanese-French Seminar on Protein Dynamics, Grenoble, Frankreich

Grenoble 15. Jan - 19. Jan 2007

SF3.BENSC

Invited Talk

Kardjilov, N.; Hilger, A.; Manke, I.; Banhart, J.

Absorption and phase contrast neutron imaging (overview)

Univerrista Politecnica delle Marche

Ancona, Italy 13. Nov - 13. Nov 2007

Invited Talk

Kardjilov, N.; Hilger, A.; Manke, I.; Banhart, J.

New trends in neutron imaging

Vortrag an der University of Tennessee, Spallation Neutron Source, Oak Ridge National Laboratory

Tennessee, USA 07. Dec - 07. Dec 2007

Poster

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

Neutron tomography at HMI - new developments

European Conference on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

Oral

Manke, I.; Hartnig, C.; Kardjilov, N.; Hilger, A.; Lehnert, W.; Banhart, J.

Neutron radiography and tomography on fuel cells

4th European Conference on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

PT

Oral

Denker, A.; Arndt, P.; Busse, W.; Homeyer, H.; Pelzer, W.; Rethfeldt, C.; Röhrich, J.

Status of ISL: Converting a multi-purpose accelerator to a dedicated proton therapy facility

18th International Conference on Cyclotrons and their applications

Catania, Italien 01. Oct - 05. Oct 2007

ISL.User

Invited Talk

Denker, A.

Non-destructive analysis in large depths using 68 MeV protons

Deutsch-Französische Sommerschule Analysis in Art with Radiation

Mühlhausen 03. Sep - 11. Sep 2007

Oral

Denker, A.; Grimm, A.

Bestimmung des Inhalts eines ägyptischen Glasflakons mit hochenergetischen Protonen

Jahrestagung Archäometrie und Denkmalpflege

Potsdam 19. Sep - 22. Sep 2007

SF - BESSY**SF2.BESSY**

Invited Talk

*Feyerherm, R.***The HMI magnetic scattering beamline MAGS at BESSY**

1. Workshop PETRA III Resonant Scattering Beamline

Hamburg 27. Sep - 28. Sep 2007

Poster

*Rossner, H.; Schmitz, D.; Schierle, E.***Structural Disorder investigated by EXAFS**

BESSY User Meeting 2007

Berlin / Adlershof 06. Dec - 07. Dec 2007

SF3.BESSY

Oral

*Gibmeier, J.; Klaus, M.; Scholtes, B.***In-situ investigation of the deformation behaviour of the wrought Mg base alloy AZ31 using energy dispersive synchrotron diffraction**

Mecasens IV

Wien, Austria 24. Sep - 26. Sep 2007

Oral

*Gibmeier, J.; Scholtes, B.***Instrumented Indentation Testing on Uniaxial Prestressed Steel Samples**

Mecasens IV

Wien, Austria 24. Sep - 26. Sep 2007

Oral

*Haas, S.; Hoell, A.; Zehl, G.; Dorbandt, I.; Bogdanoff, P.; Fiechter, S.***Structural investigation of Carbon Supported Ru-Se Based Catalysts using Anomalous Small Angle X-Ray Scattering**

211th Electrochemical Society Meeting

Chicago, USA 06. May - 10. May 2007

Poster

*Hartnig, Ch.; Manke, I.; Goebbels, J.; Riesemeier, H.; Müller, B.; Lehnert, W.; Banhart, J.***Water in gas diffusion layers of PEM fuel cells - a combined experimental and theoretical study**

Bessy-Nutzer-Treffen 2007

Berlin, Germany 06. Dec - 07. Dec 2007

Oral

*Hartnig, Ch.; Manke, I.; Kardjilov, N.; Schmidt, G.; Müller, B.; Riesemeier, H.; Goebbels, J.; Banhart, J.; Lehnert, W.***Investigation of the water distribution in porous structures for fuel cell applications by means of synchrotron tomography**

Bessy-Nutzer-Treffen 2007

Berlin, Germany 06. Dec - 07. Dec 2007

Oral

*Hoell, A.; Goerigk, G.; Tatchev, D.; Haas, S.; Kranold, R.; Müller, M.***The nanostructure of silver free photochromic glasses studies by Anomalous Small Angle X-ray Scattering**

XXIst International Congress on Glass 2007

Strasbourg, France 01. Jul - 06. Jul 2007

Oral

Hoell, A.; Kranold, R.; Tatchev, D.; Haas, S.; Müller, M.; Goerigk, G.

The nanostructure of silver-free photochromic glasses studied by anomalous small angle X-ray scattering

International Conference on Glass

Strasbourg, France 01. Jul - 06. Jul 2007

Poster

Hoydalsvik, K.; Le Messurier, D.; Winter, R.; Hoell, A.; Haas, S.; Tatchev, D.

In-situ anomalous small-angle scattering of the formation of nanoscale refractory analogue

Bessy User Meeting 2007

Berlin 06. Dec - 07. Dec 2007

Oral

Tatchev, D.M.; Hoell, A.; Eichelbaum, M.; Rademann, K.

Formation of Au nanoclusters in Glasses: A small-angle X-ray scattering study

XIth Research Workshop

Dubna, Russia 14. Apr - 22. Apr 2007

Oral

Zabler, S.; Manke, I.; Banhart, J.; Riesemeier, H.; Goebbels, J.; Zaslansky, P.; Neumann, C.; Matsushima, U.

High resolution tomographic imaging at Bessy's partially coherent hard X-ray BAMline

Bessy-Nutzer-Treffen 2007

Berlin, Germany 06. Dec - 07. Dec 2007

Poster

Zabler, S.; Rack, A.; Zaslansky, P.; Riesemeier, H.; Goebbels, J.; Weidemann, G.; Thermann, K.; Manke, I.; Banhart, J.

Applied 3D image analysis

Gordon Research Conference

New London, USA 05. Aug - 10. Aug 2007

SF1 - Methods and Instruments

SE1.Others

Poster

Palazzo G., Francia F., Mallardi A., Russina M., Schnegg A., Venturoli G.

Dynamics-function Relationship in Trehalose-coated Bacterial Photosynthetic Reaction Centres from Rhodobacter sphaeroides

4th European Conference on Neutron Scattering

Lund, Schweden 25. Jun - 29. Jun 2007

SF1.Dynamics

Poster

Habicht, K.; Keller, T.; Aynajian, P.; Mezei, F.; Keimer, B.

Effect of the Superconducting Transition on Phonon Lifetimes in Nb Investigated with the Neutron Resonance Spin-Echo Technique

European Conference on Neutron Scattering 2007

Lund, Schweden 25. Jun - 29. Jun 2007

Oral

Pickup, R.M.; Cywinski, R.; Pappas, C.

A novel approach to modelling non-exponential relaxation in glasses and spin glasses

ECNS 2007

Lund Schweden 24. Jun - 29. Jun 2007

SF1.Methods

Poster

*Bentley, P.M.; Andersen, K.***Particle Swarms Applied to the Design of Novel and Complex Focussing Guide Systems**

ECNS 2007

Lund, Schweden 24. Jun - 29. Jun 2007

Poster

*Fouquet, P.; Bentley, P.M.; Farago, B.; Pappas, C.; Mezei, F.***The Wide Angle Spin Echo Spectrometer Project WASP at ILL**

ECNS 2007

Lund, Schweden 24. Jun - 29. Jun 2007

Invited Talk

*Habicht, K.***FLEX: Future Perspectives :Upgrade of the Cold-Neutron Triple-Axis Spectrometer V2/FLEX at BENSC**

NMI3 / MCNSI Meeting

Hahn-Meitner-Institut, Berlin 10. Dec - 12. Dec 2007

Oral

*Krist, T.***Neutron optics from HMI Berlin**

NOP 07

PSI, Villigen, Schweiz 05. Mar - 07. Mar 2007

Invited Talk

*Krist, T. Mezei, F.***Neutron optical developments at HMI Berlin**

ICANS XVIII

Dongguan, China 24. Apr - 29. Apr 2007

Poster

*Krist, T., Pappas, C.; Teichert, T.; Fehr, C.; Clemens D.; Steichele, E.; Mezei F.***New polarizing guide for neutron wavelengths above 2.5 Å**

European Conference on Neutron Scattering

Lund, Schweden 24. Jun - 29. Jun 2007

Poster

*Krist, T.; Behr, N.; Bartmann R.***Solid state neutron lens**

NOP 07

PSI, Villigen, Switzerland 05. Mar - 07. Mar 2007

Poster

*Krist, T.; Teichert, A.; Hoffmann, J.; Mezei, F.***Neutron optics from HMI Berlin**

ECNS2007

Lund, Schweden 24. Jun - 29. Jun 2007

Oral

*Pappas, C.***NMI3 FP6 activity: Virtual instrument simulation studies at HMI using VITESS**

NMI3 / MCNSI Meeting

HMI Berlin 10. Dec - 12. Dec 2007

Oral

Pappas, C.; Lelievre-Berna, E.; Bentley, P.; Moskvina, E.; Grigoriev, S.; Dyadkin, V.

Polarimetric Neutron Spin Echo

8th PNT-JRA NMI3 Meeting

Bilbao SPAIN 08. Oct - 09. Oct 2007

Poster

Pappas, C.; Bentley, P.M.; Kischnik, R.; Granz, P.; Moskvina, E.; Zsigmond, G.; Clemens, D.; Mezei, F.

The Wide Angle NSE Spectrometer SPAN in the New Neutron Guide Hall of BENSC

ECNS 2007

Lund, Schweden 24. Jun - 29. Jun 2007

Invited Talk

Steitz, R.

Surface sensitive neutron scattering

71st Annual Meeting and DPG-Spring Meeting of the Division Condensed Matter

Regensburg 26. Mar - 30. Mar 2007

Poster

Teichert, A.; Krist, T.

Stress dependence of sputtered multilayers on bias potential

ECNS2007

Lund, Schweden 24. Jun - 29. Jun 2007

Poster

Teichert, A.; Krist, T.; Cussen, L.

Neutron collimator with rectangular transmission profile

ECNS2007

Lund, Schweden 24. Jun - 29. Jun 2007

SF3.Nanostructures

Poster

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Meissner, M.; Wallacher, D.; Gähler, R.; May, R.P.; Prévost, S.; Klokkenburg, M.; Erné, B.; Kohlbrecher, J.

Low temperature dynamics of magnetic colloids studied by time-resolved Small Angle Neutron Scattering

4th European Conference on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

Poster

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Meissner, M.; Wallacher, D.; Gähler, R.; May, R.P.; Prévost, S.; Klokkenburg, M.; Erné, B.; Kohlbrecher, J.

Low temperature Dynamics of magnetic colloids studied by time-resolved Small Angle Neutron Scattering (SANS)

International Conferenz on Magnetic Fluids 2007

Kosice, Slovakia 22. Jul - 28. Jul 2007

Oral

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Russina, M.; Gähler, R.; May, R.P.; Prévost, S.; Klokkenburg, M.; Erné, B.; Kohlbrecher, J.

Microsecond dynamics in magnetic nanomaterials probed by real-time Small Angle Neutron Scattering techniques

4th European Conference on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

SF7.Detector

Poster

*Borga, A.; Kemmerling, G.; Thielmann, Ch.; Gebauer, B.***DETNI readout system prototype**

Real Time 2007 Conference

Batavia (Fermilab) 29. Apr - 04. May 2007

Poster

*Schulz, Ch.; Alimov, S.; Dabrowski, W.; Fiutowski, T.; Gebauer, B.; Mindur, B.; Wiacek, P.; Wilpert, Th.***Development of very high rate and resolution hybrid micro-strip gas chamber detectors in DETNI**

4th European Conference on Neutron Scattering, ECNS

Lund, Schweden 25. Jun - 29. Jun 2007

SF2 - Magnetism

SE3.Control

Poster

*Abou-Ras, D.; Nichterwitz, M.; Kaufmann, C.A.; Schorr, S.; Gibmeier, J.; Gholinia, A.; Konijnenberg, P.; Schock, H.-W.***Texture and grain-boundary analyses in chalcopyrite-type thin-film solar cells**

MC 2007, 33th Conference of the Deutsche Gesellschaft für Elektronenmikroskopie

Saarbrücken, Deutschland 02. Sep - 07. Sep 2007

SF2.Novel Mat.

Poster

*Wolska, A.; Demchenko, I.N.; Lawniczak-Jablonska, K.; Klepka, M.; Sadowski, J.; Holub-Krappe, E.; Persson, A.; Arvanitis, D.:***Electronic structure of Mn atoms in (Ga,Mn)As layers modified by high temperature annealing**

2007 E-MRS FALL MEETING

Warsaw, University of Technology, Poland 17. Sep - 21. Sep 2007

Oral

*Wolska, A.; Lawniczak-Jablonska, K.; Klepka, M.T.; Jakiela, R.; Sadowski, J.; Demchenko, I.N.; Holub-Krappe, E.; Persson, A.; Arvanitis, D.:***XANES studies of Mn K and L_{3,2} edges in the (Ga,Mn)As layers modified by high temperature annealing**

7th Polish Meeting of Synchrotron Radiation Users (KSUPS-7)

Poznan, Poland 24. Sep - 26. Sep 2007

SF2.Quantum Phenomena

Invited Talk

*Tennant, A.***Quantum Magnetism at the Clarendon Laboratory**

Cowley Fest : Symposium to celebrate the retirement of Prof Roger Cowley

Oxford University, UK June 2006 28. Jun - 30. Jun 2007

Oral

*Tennant, A.***Emergence of strong correlations with temperature in a quantum chain**

IOP Theoretical and Experimental Magnetism

Coseners House, Abingdon, UK 26. Jul - 27. Jul 2007

Invited Talk

Tennant, A.

Neutron scattering studies of strongly correlated and frustrated systems

Inaugural meeting of the international centre for theoretical sciences

International Centre, Goa, India 26. Nov - 30. Nov 2007

Oral

Tennant, A.

Quantum magnets in high field

Dutch national symposium on condensed matter research

Amsterdam University 14. Apr - 14. Apr 2007

SF2.Thin films

Oral

Karis, O.; Ericsson, O.; Andersson, C.; Nordström, L.; sanyal, B.; Arvanitis, D.; Konishi, T.; Holub-Krappe, E.; Hunter Dunn, J.

Influence of Ligand States on the Relationship Between Orbital Moment and Magneto-Crystalline Anisotropy

MMM2007 - 10th joint MMM/Intermag Conf.

Baltimore, Maryland, USA 07. Jan - 11. Jan 2007

Poster

Sakamaki, M.; Andersson, C.; Konishi, T.; Fujikawa, T.; Holub-Krappe, E.; Rossner, H.H.; Karis, O.; Arvanitis, D.:

Co L-edge EXAFS analysis of Au/Co/Au/W(110) by means of the Bayes-Turchin approach

15th International Conference on Vacuum Ultraviolet Radiation Physics

Berlin, Germany 29. Jul - 03. Aug 2007

Poster

Sakamaki, M.; Konishi, T.; Fujikawa, T.; Andersson, C.; Karis, O.; Arvanitis, D.; Holub-Krappe, E.; Rossner, H.H.:

Local structure and magnetic anisotropy of Au/Co/Au/W(110) thin film

62nd Annual Meeting, The Physical Society of Japan

Hokkaido University, Sapporo, Japan 21. Sep - 24. Sep 2007

SF3.Microstructure

Oral

Jens Vierke, Vitaly Pilyugin, Ingwer Denks, Ivo Zizak, Nelia Wanderka, Gerhard Schumacher, Markus Wollgarten, John Banhart

Nanocrystallization in amorphous Al₈₅Ni₁₀La₅ powder induced by severe plastic deformation

13th International Conference on Liquid and Amorphous Metals, LAM 13

Ekaterinburg, Russia 08. Jul - 14. Jul 2007

Oral

Vierke, J.; Pilyugin, V.P.; Denks, I.; Wanderka, N.; Wollgarten, M.; Banhart, J.

Nanocrystallization of amorphous Al₈₅Ni₁₀La₅ powder induced by severe plastic deformation

DPG-Frühjahrstagung 2007

Regensburg, Germany 26. Mar - 30. Mar 2007

SF6.Others

Poster

Bordallo, H.N.; Boldyreva, E.; Buchsteiner, A.; Landsgesell, S.; Juranyi, F.

Understanding polymorphism and chiral-racemic structural strain in amino acids: An Inelastic

Neutron Scattering Study of Glycine, L- and DL-Serine

ECNS-2007, the 4th European Conference on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

Poster

Heloisa N. Bordallo, Paulo T.C. Freire, Joelma M. de Souza, and Dimitri N. Argyriou

Observation of a structural phase transition induced by Isotope Effect in the smallest chiral amino acid

ECNS-2007

Lund, Sweden 25. Jun - 29. Jun 2007

SF3 - Materials

SE1.Cells

Poster

Friedrich, F., Sieber, I., Klaus, M., Genzel, Ch., Nickel, N. H.

Pulsed-laser deposition of ZnO thin-films on MgO substrates

Laser Processing of Semiconductor Devices: Science and Application

St-Malo, Frankreich 01. Oct - 02. Oct 2007

SE5.Energetics

Poster

Zehl, G.; Hoell, A.; Haas, S.; Dorbandt, I.; Schmithals, G.; Bogdanoff, P.; Fiechter, S.

On the structure of carbon supported RuSeX-nanoparticles as electro-catalysts for the oxygen reduction in fuel cells

Joint Symposium of Collaborative Research Centers SFB 546 and SFB 558 ?From clusters to catalysts?

Erkner bei Berlin 28. Oct - 31. Oct 2007

SF3.Light weight mat.

Oral

Babcsán, N.; Horváth, A.; Várhegyi, Zs.; Korniyik, M.; Filep, Zs.; Dianiska, B.; Vincze, M.; Garcia-Moreno, F.

CaCO₃ Blown Aluminium Foam and Equipment for Low Gravity Tests

MetFoam 2007

Montreal, Canada 05. Sep - 07. Sep 2007

Oral

Babcsán, N.; VinodKumar, G.S.; Garcia-Moreno, F.; Murty, B.S.; Banhart, J.

New Foam Stabilizing Additive for Aluminium

MetFoam 2007

Montreal, Canada 05. Sep - 07. Sep 2007

Invited Talk

Banhart, J.; Seeliger, H.-W.

Aluminium Foam Sandwich Panels - Metallurgy, Manufacture and Applications

MetFoam 2007

Montreal, Canada 05. Sep - 07. Sep 2007

Oral

Brothers, A.H.; Garcia-Moreno, F.; Banhart, J.

Application of Ultrasound to Production of Aluminium Foams using Melt-Based Routes

Metfoam 2007

Montreal, Canada 05. Sep - 07. Sep 2007

Oral

E. Solorzano, F. Garcia-Moreno, N. Babcsan, M.A. Rodriguez, J. Banhart

Foaming of aluminium monitored by far-infrared thermography: temperature gradients and bubble rupture

MetFoam 2007

Montreal, 05. Sep - 07. Sep 2007

Oral

Garcia-Moreno, F.; Holm, P., Banhart, J.

Metallic foam experiments under microgravity

18th ESA Symposium on European Rocket and Balloon Programmes and Related Research
Visby, Schweden 03. Jun - 07. Jun 2007

Oral

Garcia-Moreno, F.; Mukherjee, M.; Banhart, J.

Foaming of metals under gas pressure (following the PM route)

MetFoam 2007

Montreal, Canada 05. Sep - 07. Sep 2007

Oral

Holm, P.; Houltz, Y.; Löfgren, O.; Andersson, P.; Garcia-Moreno, F.

XRMON Metal Foam Experiment Module on Maser 11

18th ESA Symposium on European Rocket and Balloon Programmes and Related Research
Visby, Sweden 03. Jun - 07. Jun 2007

Oral

Jiménez, C.; Garcia-Moreno, F.; Zehl, G.; Banhart, J.

Effect of relative humidity on Pressure Induced Foaming (PIF) of Aluminum-based precursors.

MetFoam 2007

Montreal, Canada 05. Sep - 07. Sep 2007

Oral

Kadoi, K.; Babcsán, N.; Nakae, H.; Garcia-Moreno, F.; Banhart, J.

Methodology for in-situ observation of Alporas foams using X-ray radiography

MetFoam 2007

Montreal, Canada 05. Sep - 07. Sep 2007

Oral

Mukherjee, M.; Garcia-Moreno, F.; Banhart, J.

Anomalous solidification behaviour of Al foam

MetFoam 2007

Montreal, Canada 05. Sep - 07. Sep 2007

Oral

Mukherjee, M.; Kolluri, M.; Garcia-Moreno, F.; Ramamurty, U.; Banhart, J.

Compressive and fatigue behaviour of Al foam with constraint

MetFoam 2007

Montreal, Canada 05. Sep - 07. Sep 2007

Oral

Rodriguez-Rerez, M.A.; Solorzano, E.; Garcia-Moreno, F.; Saja de, J.A.

The time-uncoupled aluminium free expansion: The impossibility of a celled-isotropic foam under conventional foaming

MetFoam 2007

Montreal, Canada 05. Sep - 07. Sep 2007

Poster

Sasaki, T.T.; Vierke, J.; Wollgarten, M.; Banhart, J.; Hono, K.

Mechanical property and microstructure of bulk Al85Ni10La5 alloy consolidated by spark plasma sintering

ISMAM 2007

Corfu, Greece 26. Aug - 30. Aug 2007

Oral

Vinod Kumar, G.S.; Babcsán, N.; Garcia-Moreno, F.; Murty, B.S.; Banhart, J.

Aluminium Based Metallic Films

MetFoam 2007

Montreal, Canada 05. Sep - 07. Sep 2007

Invited Talk

Wollgarten, M.; Vierke, J.; Hoell, A.; Tatchev, D.; Haas, S.; Boeseke, M.; Haug, J.; Sahoo, K.L.; Banhart, J.
Investigation of amorphous Al-Ni-La alloys, evolution of nanostructure during thermal treatment and routes to application

IFW Dresden

Dresden, Germany 14. Feb - 14. Feb 2007

SF3.Microstructure

Oral

Chang, C. S. T.; Wieler, I.; Wanderka, N.; Banhart, J.

Microstructural analysis of Al-Mg-Si alloys with respect to its influence on strength

DPG-Frühjahrstagung 2007

Regensburg, Germany 26. Mar - 30. Mar 2007

Invited Talk

Griesche, A.; Macht, M.-P.; Froberg, G.

Diffusion in Metallic Melts

TMS 2007

Orlando, USA 25. Feb - 01. Mar 2007

Oral

Höring, S.; Wanderka, N.; Banhart, J.

Microstructural investigations on the carbon free stainless maraging steel Corrax

DPG-Frühjahrstagung 2007

Regensburg, Germany 26. Mar - 30. Mar 2007

Poster

Isheim, D.; Seidmann, D.; Wanderka, N.

Doubly and triply charged diatomic Mo ion cluster in pulsed-laser assisted local electrode atom probe tomography

Microscopy & Microanalysis 2007 Meeting

Ft. Lauderdale, USA 05. Aug - 09. Aug 2007

Oral

Jens Vierke, Vitaly Pilyugin, Ingwer Denks, Ivo Zizak, Nelia Wanderka, Gerhard Schumacher, Markus Wollgarten, John Banhart

Nanocrystallization in amorphous Al₈₅Ni₁₀La₅ powder induced by severe plastic deformation

13th International Conference on Liquid and Amorphous Metals, LAM 13

Ekaterinburg, Russia 08. Jul - 14. Jul 2007

Oral

Mechler, S.; Schumacher, G.; Wanderka, N.; Macht, M.P.

Metallic glass formation in Zr-Ti-Ni-Cu-Be as a consequence of geometric frustration

2007 Materials Research Society Fall Meeting

Boston, USA 26. Nov - 30. Nov 2007

Oral

Miglierini, M.; Kanuch, T.; Pavuk, M.; Pavlovic, M.; Svec, P.; Janickovic, D.; Maslan, M.; Zboril, R.; Jiraskova, Y.; Schumacher, G.; Zizak, I.

Structural Transformations in Fe-Based nanocrystalline Alloys

NANOVED2007

Bratislava, Slowakei 12. Nov - 15. Nov 2007

Oral

Miglierini, M.; Kanuch, T.; Pavuk, M.; Svec, P.; Janickovic, D.; Schumacher, G.; Zizak, I.

Kinetics of Crystallization in Fe-Based Nanocrystalline Alloys Studied by Diffraction of Synchrotron Radiation

Synchrotron Facilities for the Development of Science and Technology in Central and Eastern Europe

Brno, Czech Republic 20. Nov - 21. Nov 2007

Oral

Pavlovic, M.; Miglierini, M.; Hinca, R.; Stancek, S.; Mustafin, E.; Fertman, A.; Golubev, A.; Strasik, I.; Schumacher, G.

Stu Research Activities in Accelerator Physics

16th Conference of the Slovak Physicists

University of Zilina, Slovakia 10. Sep - 13. Sep 2007

Oral

Vierke, J.; Pilyugin, V.P.; Denks, I.; Wanderka, N.; Wollgarten, M.; Banhart, J.

Nanocrystallisation of amorphous Al85Ni10La5 powder induced by severe plastic deformation

DPG-Frühjahrstagung 2007

Regensburg, Germany 26. Mar - 30. Mar 2007

Oral

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

Effect of Re addition on the microstructural of IN 706 superalloy at elevated temperatures

Microscopy & Microanalysis 2007

Ft. Lauderdale, USA 05. Aug - 09. Aug 2007

Oral

Wieler, I.; Wanderka, N.; Banhart, J.

Basic investigations of the precipitation behaviour of AlMgSi alloys

DPG-Frühjahrstagung 2007

Regensburg, Germany 26. Mar - 30. Mar 2007

SF3.Nanostructures

Poster

Hoell, A.; Haas, S.; Tatchev, D.

Selected user results measured at the HMI Small Angles x-ray Scattering Instrument

BESSY User Meeting

Berlin 06. Dec - 07. Dec 2007

Poster

Keiderling, U.; Wiedenmann, A.

SANS polarization analysis at V4 SANS instrument of HMI Berlin

4th European Conference on Neutron Scattering

Lund, Schweden 25. Jun - 29. Jun 2007

Poster

Tatchev, D.; Eichelbaum, M.; Haas, S.; Hoell, A.; Rademann, K.

Synchrotron X-ray radiation activated formation of Gold clusters in soda-lime-silicate glasses

BESSY User Meeting

Berlin 06. Dec - 07. Dec 2007

Poster

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Meissner, M.; Wallacher, D.; Gähler, R.; May, R.P.; Prévost, S.; Klokkenburg, M.; Erné, B.; Kohlbrecher, J.

Low temperature Dynamics of magnetic colloids studied by time-resolved Small Angle Neutron Scattering (SANS)

International Conferenz on Magnetic Fluids 2007

Kosice, Slovakia 22. Jul - 28. Jul 2007

Poster

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Meissner, M.; Wallacher, D.; Gähler, R.; May, R.P.; Prévost, S.; Klokkenburg, M.; Erné, B.; Kohlbrecher, J.

Low temperature dynamics of magnetic colloids studied by time-resolved Small Angle Neutron Scattering

4th European Conference on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

Oral

Wiedenmann, A.; Keiderling, U.; Habicht, K.; Russina, M.; Gähler, R.; May, R.P.; Prévost, S.; Klokkenburg, M.; Erné, B.; Kohlbrecher, J.

Microsecond dynamics in magnetic nanomaterials probed by real-time Small Angle Neutron Scattering techniques

4th European Conference on Neutron Scattering
Lund, Sweden 25. Jun - 29. Jun 2007

SF6 - Trace Elements

SF6.Analysis

Poster

Alber, D.; Bukalis, G., Stanik, B., Zepezauer, F.

Neutron Activation Analysis (NAA) and Irradiation Service at BER II

European Conference on Metallobiolumics
Berlin, Germany 29. Nov - 30. Nov 2007

Poster

Bartel, J.; Charkiewicz, E.; Plotnikov, A.; Söte, A.; Kühbacher, M.; Kyriakopoulos, A.

Distribution of selenium and selenoproteins in the adrenal gland of the rat

European Conference on Metallobiolumics
Berlin, Germany 29. Nov - 30. Nov 2007

Oral

Bordallo, H.; Boldyreva, E.; Kyriakopoulos, A.

Understanding Polymorphism with a New Eye: Results from Neutron Spectroscopy Studies

IMA '07

Patras, Greece 30. Sep - 04. Oct 2007

Oral

Kühbacher, M., Falkenberg, G., Grünewald, B., Radtke, M., Riesemeier, H., Zabler, S., Manke, I., Bartel, J., Grbavac, I., Alber, D., Bukalis, G., Behne, D.; Kyriakopoulos, A.

Macroscopic and microscopic chemical imaging with neutrons and photons - from 1D to 3D elemental analysis

European Conference on Metallobiolumics
Berlin, Germany 29. Nov - 30. Nov 2007

Oral

Plotnikov, A.; Bartel, J.; Wolf, C.; Kyriakopoulos, A.

Identification of Trace Element Bound Proteins after Electrophoretic Separation under Native and Denaturing Conditions in Gels and Blot Membranes by Laser Ablation Inductively Coupled Plasma Mass Spectrometry

European Conference on Metallobiolumics
Berlin, Germany 29. Nov - 30. Nov 2007

Poster

Schmidt, F., Kühbacher, M., Zehbe, R., Schubert, H., Kyriakopoulos, A.

Structured biomaterials for controlled drug release and guidance for neuronal cells

European Conference on Metallobiolumics
Berlin, Germany 29. Nov - 30. Nov 2007

Poster

Schwarm, A., Ortmann, S., Wolf, C., Clauss, M.

Fluid and particle retention time in captive pygmy hippopotamus and giant red kangaroo compared to banteng cattle Schwarm, A., Ortmann, S., Wolf, C., Clauss, M.

European Conference on Metallobiolumics
Berlin, Germany 29. Nov - 30. Nov 2007

SF6.NAA

Oral

*Alber, D.; Bukalis, G.***Neutronenaktivierungsanalyse und Bestahlungsmöglichkeiten am Forschungsreaktor BER II**

21. Seminar Aktivitätsanalyse und Gammaskopie (SAAGAS)

Mainz 21. Mar - 23. Mar 2007

SF6.Others

Poster

*Bordallo, H.N.; Boldyreva, E.; Buchsteiner, A.; Landsgesell, S.; Juranyi, F.***Understanding polymorphism and chiral-racemic structural strain in amino acids: An Inelastic Neutron Scattering Study of Glycine, L- and DL-Serine**

ECNS-2007, the 4th European Conference on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

Invited Talk

*Heloisa N. Bordallo, Elena V. Boldyreva and Antonios Kyriakopoulos***Understanding Polymorphism with a new eye: Results from Neutron Spectroscopy Studies**

The 5th International Conference on Instrumental Methods of Analysis

Rio, Patras, Greece 30. Sep - 04. Oct 2007

Poster

*Heloisa N. Bordallo, Paulo T.C. Freire, Joelma M. de Souza, and Dimitri N. Argyriou***Observation of a structural phase transition induced by Isotope Effect in the smallest chiral amino acid**

ECNS-2007

Lund, Sweden 25. Jun - 29. Jun 2007

Invited Talk

*L.P. Aldridge, Heloisa N. Bordallo, and A. Desmedt***Water transport in concrete using inelastic neutron scattering**

ECNS-2007, the 4th European Conference on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

Poster

*Seydel, T.; Bordallo, H.N.; Henning, M.; Van Eijck, L.; Frick, B***The Numerical Description of the New Backscattering Spectrometer IN16B**

4th European Conference on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

SF6.Proteins

Poster

*Bartel, J.; Söte, A.; Charkiewicz, E.; Plotnikov, A.; Kühbacher, M.; Kyriakopoulos, A.***A Maximum of Information from just a Milligram of Sample**

IMA'07

Patras, Greece 30. Sep - 04. Oct 2007

Poster

*Bartz, T.; Wolf, C.; Alber, D.; Söte, A.; Bartel, J.; Kyriakopoulos, A.***Comparison of different analytical methods for the detection of selenium in the stomach of the rat**

European Conference on Metallobiomics

Berlin, Germany 29. Nov - 30. Nov 2007

Invited Talk

Bertelsmann, H.; Behne, D.; Kühbacher, M.; Weseloh, G.; Wolf, C.; Sieme, H.; Kyriakopoulos, A.

Functions of selenium-containing proteins in the male reproductive system

European Conference on Metallobiolomics

Berlin, Germany 29. Nov - 30. Nov 2007

Invited Talk

Bordallo, H.N.; Boldyreva, E. V.

Crystalline Amino Acids: Their Mystery and Magic seen with a New Eye

European Conference on Metallobiolomics

Berlin, Germany 29. Nov - 30. Nov 2007

Poster

Charkiewicz, E.; Bartel, J.; Söte, A.; Kyriakopoulos, A.

Determination of the total antioxidant status in the rat liver and comparison with GPx activity

European Conference on Metallobiolomics

Berlin, Germany 29. Nov - 30. Nov 2007

Poster

Charkiewicz, E.; Bartel, J.; Söte, A.; Kyriakopoulos, A.

Antioxidative Activity does not Depend on a Single Enzym

IMA'07

Patras, Greece 30. Sep - 04. Oct 2007

Poster

Graebert A., Bräuer A. U., Savaskan, N. E.; Kyriakopoulos, A.

Selenocysteine Lyase - Localization and First Studies on Function

European Conference on Metallobiolomics

Berlin, Germany 29. Nov - 30. Nov 2007

Poster

Kyriakopoulos, A.; Alber, D.; Graebert, A.; Behne, D.

Characterization of the membrane bound 18kDa as a Sec-Protein by combination of radioanalytical techniques and biochemical methods

European Conference on Metallobiolomics

Berlin, Germany 29. Nov - 30. Nov 2007

Poster

Kyriakopoulos, A.; Richter, A.; Bartel, J.

Analysis of Expressed Proteins in Cardiovascular Rat Tissues investigated by 2D-Electrophoresis and MALDI-MS

IMA'07

Patras, Greece 30. Sep - 04. Oct 2007

Oral

Schwarm, A.; Ortmann, S.; Wolf, W.; Kühne, R.; Spretke, T.; Streich, J.; Clauss, M.

Fluid and particle retention in captive banteng and pygmy hippopotamus: two functionally different foregut fermenters

6th International Zoo and Wildlife Research Conference on Behaviour, Physiology and Genetics

Berlin, Germany 07. Oct - 10. Oct 2007

Poster

Wolf, C., Strenziok, R., Kyriakopoulos, A.

Determination of cadmium in small amounts of urine by inductively coupled plasma mass spectrometry

European Conference on Metallobiolomics

Berlin, Germany 29. Nov - 30. Nov 2007

SF7 - Measurement Instrumentation**SF7.Detector**

Poster

*Bobkov V.V., Gokov S.P., Gritsyna V.V., Gritsyna V.T., Shevchenko D.I. and 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 2007

Poster

*Borga, A., Kemmerling, G., Thielmann, Ch., Gebauer, B.***DETNI Front-end Board System Prototypes**ECNS-2007, 4th European Conference on Neutron Scattering
Lund, Sweden 25. Jun - 29. Jun 2007

Poster

*Borga, A., Kemmerling, G., Thielmann, Ch., Gebauer, B.***DETNI readout system prototype**Real Time 2007 Conference
Batavia (Fermilab) 29. Apr - 04. May 2007

Poster

*Borga, A., Kemmerling, G., Thielmann, Ch., Gebauer, B.***DETNI Front-end Board System Prototypes**ECNS-2007, 4th European Conference on Neutron Scattering
Lund, Sweden 25. Jun - 29. Jun 2007

Poster

*Casinini F., Petrillo, C., Sacchetti, F., Alimov, S.S., Gebauer, B.***Development of a High-Resolution Silicon Micro-Strip Neutron Detector in DETNI**ECNS-2007, 4th European Conference on Neutron Scattering
Lund, Sweden 25. Jun - 29. Jun 2007

Poster

*Dabrowski, W.; Brogna, A.; Buzzetti, S.; Fiutowski, T.; Gebauer, B.; Schmidt, Ch.; Soltveit, H.K; Szczygiel, R.; Trunk, U.; Wiacek, P.***MSGCROC - A Novel Application Specific Integrated Circuit for Readout of Two-Dimensional Position Sensitive Gas Microstrip Neutron Detectors**ECNS-2007, 4th European Conference on Neutron Scattering
Lund, Sweden 25. Jun - 29. Jun 2007

Invited Talk

*Gebauer, B.***Development of very-high rate and resolution neutron detectors and readout electronics in DETNI**5th NMI3 General Meeting
Bilbao, Spain 08. Oct - 10. Oct 2007

Poster

*Gebauer, B.; Alimov, S.S.; Borga, A.; Brogna, A.; Buzzetti, S.; Casinini, F.; Dabrowski, W.; Fiutowski, T.; Kemmerling, G.; Klein, M.***Development of Very High Rate and Resolution Neutron Detectors in DETNI**ECNS-2007, 4th European Conference on Neutron Scattering
Lund, Sweden 25. Jun - 29. Jun 2007

Poster

Gebauer, Burckhard; Alimov, Svyatoslav S.; Borga, Andrea; Brogna, Andrea; Buzzetti, Siro; Casinini, Francesco; Dabrowski, Wladyslaw; Fiutowski, Tomasz; Kemmerling, Günter; Klein, Martin

Development of Very High Rate and Resolution Neutron Detectors in DETNI

4th European Conf. on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

Poster

Mindur, B.; Fiutowski, T.; Gebauer, B.; Schulz, Ch.; Wiacek, P.

Gigabit Ethernet Readout Interface for DETNI

ECNS-2007, 4th European Conference on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

Poster

Mindur, B.; Fiutowski, T.; Gebauer, B.; Schulz, Ch.; Wiacek, P.

Gigabit Ethernet Readout Interface for DETNI

ECNS-2007, 4th European Conference on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

Poster

Mindur, Bartosz; Fiutowski, Tomasz; Gebauer, Burckhard; Schulz, Christian; Wiacek, Piotr

Data Acquisition, Monitoring and Control Software for DETNI

4th European Conf. on Neutron Scattering

Lund, Sweden 25. Jun - 29. Jun 2007

Poster

Schulz, Ch.; Alimov, S.; Dabrowski, W.; Fiutowski, T.; Gebauer, B.; Mindur, B.; Wiacek, P.; Wilpert, Th.

Development of very high rate and resolution hybrid micro-strip gas chamber detectors in DETNI

4th European Conference on Neutron Scattering, ECNS

Lund, Schweden 25. Jun - 29. Jun 2007

SF7.Others

Invited Talk

Oertzen von, W.; Zhrebchevsky, V.; Efimov, G.; Gebauer, B.; Thummerer, S.; Kokalova, Tz.; Schulz, Ch.; Bohlen, H.G.; Kamanin, D.; Beck, C.; Curien, D.; Rousseau, M.; Papka, P.; Royer, G.; de Angelis, G.

Coplanar ternary cluster decay of hyper-deformed ^{56}Ni and ^{60}Zn at high angular momentum

Clusters '07,

Stratford-upon-Avon, UK 03. Sep - 07. Sep 2007

SF7.Q3D

Oral

Bohlen, H.-G.; Dorsch, T.; Kokalova, Tz.; von Oertzen, W.; Schulz, Ch.; Wheldon, C.

The band structure of ^{10}Be .

DPG Frühjahrstagung 2007, Hadronen und Kerne

Gießen, Germany 12. Mar - 16. Mar 2007

Oral

Bohlen, H.G.; von Oertzen, W.; Kalpakchieva, R.; Massey, T.N.; Dorsch, T.; Milin, M.; Schulz, Ch.; Kokalova, Tz.; Wheldon, C.

Band structures in light neutron-rich nuclei

Clusters '07,

Stratford-upon-Avon, UK 03. Sep - 07. Sep 2007

Invited Talk

Bohlen, H.G.; von Oertzen, W.; Schulz, Ch.; Kokalova, Tz.; Wheldon, C.; Kalpakchieva, R.; Massey, T.N.; Milin, M.

Core x (sd)³ Structures in ¹⁷C, ¹⁶C, and ¹⁵C up to High Excitation Energies

ISPUN07: International Symposium on Physics of Unstable Nuclei

Hoi An, Vietnam 03. Jul - 07. Jul 2007

Oral

Dorsch, T.; Bohlen, H. G.; von Oertzen, W.; Krücken, R.; Faestermann, Th.; Mahgoub, M.; Kokalova, Tz.; Wheldon, C.; Milin, M.; Wirth, H.; Hertenberger, R.

Cluster structures of ¹⁸O and ²⁰O up to 20 MeV excitation energy from the (⁷Li,p)-reaction

Clusters '07

Stratford upon Avon, UK 03. Sep - 07. Sep 2007

SF8 - Struktur und Dynamik

SE2.Chemistry

Oral

Camus, C.; Abou-Ras, D.; Allsop, N.; Bohne, W.; Gledhill, S.; Lauermann, M. Ch.

A systematic study on the deposition of /µm thick CuInS₂ spray ILGAR layers

DPG-Tagung

Regensburg, Germany 26. Mar - 30. Mar 2007

SF8.Dynamics

Oral

Bhattacharyya, S.R.; Schiwietz, G.

Energy distribution of secondary ion emission from SiO₂ surfaces bombarded by high energy and highly charged Xe^{q+} ions (selected oral contribution)

18th international conference on ion-beam analysis (IBA-18)

Hyderabad, Indien 23. Sep - 28. Sep 2007

Invited Talk

Grande, P.L.; Hentz, A.; Pezzi, R.; Baumvol, I.; Schiwietz, G.

Surface Analytics with Monolayer Resolution using Ions (invited main talk)

71. Jahrestagung der Deutschen Physikalischen Gesellschaft (DPG)

Regensburg, Germany 26. Mar - 30. Mar 2007

Invited Talk

Klaumünzer, S.

Surface modification of amorphous materials by high-energy heavy ions

XVIII International Conference on Ion-Surface Interactions ISI 2007

Zvenigorod/ Russland 24. Aug - 28. Aug 2007

Oral

Klaumünzer, S.

From single crystals to nanocrystals: fragmentation grain rotation and plastic deformation in NiO by fast heavy ions

14 th International Conference on Radiation Effects in Insulators

Caen, Frankreich 27. Aug - 01. Sep 2007

Invited Talk

Mahnke, H.-E.

Interaction of radiation with matter: X-rays, electrons, and ions

Autumn School on Materials Science and Electron Microscopy

Berlin 08. Oct - 12. Oct 2007

Invited Talk

Mahnke, H.-E.; Zizak, I.; Koteski, V.

Ion-beam induced nano-sized Ag-metal clusters in glass

E-MRS 2007. Fall meeting, Symposium F

Warschau 16. Sep - 21. Sep 2007

Oral

Neidhardt, J.; Mittere, Ch.; Mraz, S.; Schneider, J.; Strub, E.; Bohne, W.

Emission Characteristics of TixB Compound Targets during Sputtering; Role of Angular Distribution and Gas Scattering

17th Int. Vacuum Congress/13th Int. Conference on Surface Science

Stockholm, 02. Jul - 06. Jul 2007

Oral

Papaléo, R.M.; Silva, M.R.; Leal, R.; Grande, P.L.; Roth, M.; Schattat, B.; and Schiwietz, G.

Charge-state dependence of cratering induced by individual fast ions on mica and PMMA (selected oral contribution)

14th international conference on radiation effects in insulators (REI-2007)

Caen, France 28. Aug - 01. Sep 2007

Invited Talk

Paul, H. (presented by Schiwietz, G.)

"On the Difference between the Stopping Powers of Gases and of Condensed Materials", presentation of Helmut Paul's (Linz) invited talk

Workshop on Heavy Ion Stopping 07 (HIS07)

Darmstadt, Germany 07. Oct - 10. Oct 2007

Invited Talk

Schiwietz, G.

"Auger-electron spectroscopy in ion-solid interaction", invited Progress Report

3rd international SPARC meeting

Paris, France 12. Feb - 15. Feb 2007

Invited Talk

Schiwietz, G.; Grande, P.L.

Non-equilibrium Charge States and Scattering Potentials in Ion-Solid Interactions, invited talk

International Workshop on High-Resolution Depth Profiling

Dresden, Germany 17. Jun - 21. Jun 2007

Invited Talk

Schiwietz, G.; Grande, P.L.

"The role of non-equilibrium charge states for the energy loss of heavy ions", invited talk

Workshop on Heavy Ion Stopping 07 (HIS07)

Darmstadt, Germany 07. Oct - 10. Oct 2007

Invited Talk

Schiwietz, G.; Roth, M.; Czerski, K.; Staufienbiel, F.; Grande, P.L.

"Auger angular distributions induced by swift ions", invited talk

18th International Conference on Ion-Surface Interactions ISI-2007

Zvenigorod near Moscow, Russia 24. Aug - 28. Aug 2007

Invited Talk

Schiwietz, G.; Roth, M.; Czerski, K.; Staufienbiel, F.; Hellhammer, R.; Fadanelli, R.C.; Grande, P.L.

"Search for short-time phase effects in the electronic damage evolution - a case study with silicon", invited talk

18th international conference on ion-beam analysis (IBA-18)

Hyderabad, Indien 23. Sep - 28. Sep 2007

Poster

Udayan De; Roehrich, J.; Bohne, W.

Elastic Recoil Detection Analysis and complementary Characterizations on II-VI electronic materials

Intern Conference on Ion Beam Analysis

Hyderabad, India 23. Sep - 28. Sep 2007

SF8.Structures

Oral

Imielski, P.; Zeitz, W.-D.; Brewer, W.; Manzhur, Y.; Potzger, K.

Electronic structure of Europium impurities in ZnO

Regensburg 26. Mar - 30. Mar 2007

Invited Talk

Imielski, P.; Zeitz, W.-D.; Manzhur, Y.; Brewer, W.;

Investigation on isolated Eu atoms in ZnO and on Pd surfaces

ISOLDE Workshop and users meeting 2006 / 2007

Genf 11. Feb - 14. Feb 2007

Invited Talk

Mahnke, H.-E.

Nano particles and trace elements in objects of cultural heritage studied with X-ray absorption

French-German Summer School „Analysis in Art with Radiation“ AARD 2007

Mühlhausen (Thüringen) 03. Sep - 11. Sep 2007

Invited Talk

Mahnke, H.-E.

Introduction to XAS (EXAFS) - Access to the local structure in semiconductors

Workshop on “Structural investigations of adamantine photovoltaic materials? HMI Berlin

Berlin 20. Feb - 21. Feb 2007

Oral

Zeitz, W.-D.

Elektronic Configurations of sp-Element Atoms at Nickel surfaces and interfaces

ISOLDE Workshop und users meeting 2006 /2007

Genf 11. Feb - 14. Feb 2007

Oral

Zeitz, W.-D.; Brewer, W. D.; Imielski, P.; FU Berlin and ISOLDE Collaboration:Johnston, K.

Soft-landing of radioactive probes on clean metal surfaces and at interfaces

ISOLDE Workshop and users meeting 2007 / 2008

Genf 17. Dec - 19. Dec 2007

Oral

Zeitz, W.-D.; Prandolini, M. J.; Manzhur, Y.; Brewer, W. D.; Imielski, P. and the ISOLDE-Collaboration

Elektronische Eigenschaften von einzelnen sp-Elementen auf verschiedenen Plätzen der Nickel-Oberfläche

Workshop Ionenstrahlphysik und Nanotechnologie

Bochum 10. May - 11. May 2007

SFN1 - Magnetism and Superconductivity of Quantum Materials**SE1.Others**

Poster

Pieper O., van Slageren J., Guidi T., Lake B., Mutka H., Russina M., Schnegg A., Buchsteiner A., Milios C. J., Brechin E. K., Julia A.

Inelastic neutron scattering studies of two Mn(III)-based Single Molecule Magnets

71. Jahrestagung der Deutschen Physikalischen Gesellschaft und DPG Frühjahrstagung des Arbeitskreises Festkörperphysik

Regensburg 26. Mar - 30. Mar 2007

Poster

Schnegg A., Behrends J., Lips K., Guidi T., Lake B., Bittl R., Glaser T., Holldack K.

Molecular magnets studied by a novel ultra broad band THz electron paramagnetic resonance spectrometer at BESSY

26th BESSY User Meeting

Berlin 06. Dec - 07. Dec 2007

SF.N1

Invited Talk

Lake, B.

Magnetism in doped and undoped Spin Ladders

CMMP 07; Condensed Matter and Materials Physics,
Leicester, U.K. 12. Apr - 13. Apr 2007

Invited Talk

Lake, B. D.A. Tennant, C.D. Frost

Universal Scaling and the Crossover Diagram of a Quantum Antiferromagnet

SCES 07; Strongly Correlated Electron Systems
Houston, USA 13. May - 18. May 2007

Invited Talk

Lake, B. S. Notbohm, D.A. Tennant, C.D. Frost

Magnetism in doped and undoped Spin Ladders

Workshop on Highly Frustrated Magnets and Strongly Correlated Systems
Trieste, Italy 07. Aug - 17. Aug 2007

Oral

Lake, B. S. Notbohm, D.A. Tennant C.D. Frost

Magnetic Excitation Spectrum of Doped and Undoped Spin Ladders.

APS 07 American Physical Society March Meeting,
Denver, USA 05. Sep - 09. Sep 2007

SE - Solar Energy Research

SE1 - Silicon photovoltaics

SE1.Cells

Poster

Becker, C.; Lee, K.; Dogan P.; Fenske, F.; Berginski, M.; Hüpkes, J.; Gall, S.; Rech, B.
Solid phase crystallization of amorphous silicon on ZnO:Al for thin film solar cells
PVSEC-17, 17th International Photovoltaic Science and Engineering Conference
Fukuoka, Japan 03. Dec - 07. Dec 2007

Oral

Behrends, J.; Boehme, C.; Haas, S.; Rech, B.; Lips, K.
Electrical Detection of Spin Coherence in Microcrystalline pin Solar Cells
DPG Frühjahrstagung 2007
Regensburg 26. Mar - 30. Mar 2007

Oral

Behrends, J.; Boehme, C.; Haas, S.; Rech, B.; Lips, K.
Detection of Coherent Spin Oscillations in the Photocurrent of Microcrystalline pin Solar Cells
Materials Research Society Spring Meeting 2007
San Francisco, USA 09. Apr - 13. Apr 2007

Oral

Behrends, J.; Boehme, C.; Haas, S.; Rech, B.; Lips, K.
Recombination in Microcrystalline pin Solar Cells
19th Workshop on Quantum Solar Energy Conversion - QUANTSOL 2007
Bad Hofgastein, Austria 18. Mar - 23. Mar 2007

Oral

Behrends, J.; Schnegg, A.; Boehme, C.; Haas, S.; Stiebig, H.; Rech, B.; Lips, K.
Recombination in microcrystalline pin solar cells studied with pulsed electrically detected magnetic resonance
22nd International Conference on Amorphous and Nanocrystalline Semiconductors (ICANS)20.8.-24.8.2007
Breckenridge, Colorado, USA 20. Jul - 24. Jul 2007

Poster

Berginski, M.; Das, C.; Doumit,KA.; Hüpkes, J.; Rech, B.; Wuttig, M.
Properties of TiO₂ layers as antireflection coating for amorphous silicon based thin-film solar cells
22nd European Photovoltaic Solar Energy Conference and Exhibition
Milan, Italy 03. Sep - 07. Sep 2007

Invited Talk

Berginski, M.; Hüpkes, J.; Reetz, W.; Rech, B.; Wuttig, M.
Recent development on surface-textured ZnO:Al films prepared by sputtering for thin-film solar cell application
5th Intern. Symp. on Transparent Oxide Thin Films for Electronics and Optics
Kanagawa, Japan 31. May - 22. May 2007

Poster

Bunte, E.; Hüpkes, J.; Zhu, H.; Berginski, M.; Siekmann, H.; Appenzeller, W.; Rech, B.
Aluminium-doped zinc oxide films for silicon thin-film solar cells prepared by sputter deposition from rotatable ceramic targets
22nd European Photovoltaic Solar Energy Conference and Exhibition
Milan, Italy 03. Sep - 07. Sep 2007

Poster

Dogan, P.; Fenske, F.; Scheller, L.-P.; Lee, K. Y.; Gorka, B.; Rau, B.; Conrad, E.; Gall, S.; Rech, B.
Structural and electrical properties of epitaxial Si layers prepared by E-beam evaporation
22nd European Photovoltaic Solar Energy Conference
Milan, ITALY 03. Sep - 07. Sep 2007

Oral

Dogan, P.; Rudigier, E.; Fenske, F.; Lee, K. Y.; Gorka, B.; Rau, B.; Conrad, E.; Gall, S.
Structural and electrical properties of epitaxial Si layers prepared by E-beam evaporation
EMRS 2007 Spring
Strasbourg, 28. May - 01. Jun 2007

Poster

Fenske, F., Schulze S., Hietschold M., Schmidbauer M.
Structural characterization of homoepitaxial layers on Si(111) grown by pulsed magnetron sputtering at low temperature
DRIP XII
Berlin 09. Sep - 13. Sep 2007

Poster

Friedrich, F., Sieber, I., Klaus, M., Genzel, Ch., Nickel, N. H.
Pulsed-laser deposition of ZnO thin-films on MgO substrates
Laser Processing of Semiconductor Devices: Science and Application
St-Malo, Frankreich 01. Oct - 02. Oct 2007

Oral

Friedrich, F.; Nickel, N. H.
Investigation of complex formation in pulsed-laser deposited Sb-doped ZnO thin-films
DPG-Frühjahrstagung, Regensburg, 26.- 30.3.2007
Regensburg 26. Mar - 30. Mar 2007

Invited Talk

Fuhs, W.
Photovoltaic Energy Conversion
International Workshop on Materials for Optoelectronics Applications
Rauischholzhausen, Universität Gießen 10. Sep - 14. Sep 2007

Invited Talk

Fuhs, W.
Recombination and transport through localized states in hydrogenated amorphous and microcrystalline silicon
MOTT LECTURE at 22nd International Conference on Amorphous and Nanocrystalline Semiconductors (ICANS 22)
Breckenridge, Colorado, USA 19. Aug - 24. Aug 2007

Invited Talk

Fuhs, W.
Thin-film technologies for photovoltaics
International Workshop on Materials for Optoelectronics Applications
Rauischholzhausen, Universität Gießen 10. Sep - 14. Sep 2007

Oral

Gall, S.; Becker, C.; Conrad, E.; Dogan, P.; Fenske, F.; Gorka, B.; Lee, K.Y.; Rau, B.; Ruske, F.; Rech, B.
Polycrystalline silicon thin-film solar cells on glass
17th International Photovoltaic Science and Engineering Conference
Fukuoka, Japan 03. Dec - 07. Dec 2007

Poster

Gall, S.; Lee, K.Y.; Dogan, P.; Gorka, B.; Becker, C.; Fenske, F.; Rau, B.; Conrad, E.; Rech, B.

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

22nd European Photovoltaic Solar Energy Conference

Milan, Italy 03. Sep - 07. Sep 2007

Oral

Geipel, T.; Kriegel, M.; Stangl, R.; Lips, K.

AFORS-Het 3.0 Development of a two-dimensional simulation mode

NUMOS Conference: Numerical Modelling of thin film solar cells

Gent, Belgium 27. Mar - 30. Mar 2007

Oral

Gluba, M.; Nickel, N. H.

Hydrogen-induced charge state transition in ZnO:Mn

Heimbach Seminar XXI.

Heringsdorf 01. Oct - 05. Oct 2007

Oral

Gluba, M.A.; Friedrich, F.; Nickel, N.H.

Hydrogen induced charge state alteration of Mn trace impurities in ZnO

DPG Frühjahrstagung des AKF

Regensburg 26. Mar - 30. Mar 2007

Oral

Gordon, I.; Van Gestel, D.; Carnel, L.; Beaucarne, G.; Poortmans, J.; Lee, K.Y.; Dogan, P.; Gorka, B.; Conrad, E.; Fenske, F.; Rau, B.; Gall, S.; Plentz, J.; Falk, F.; Le Bellac, D.

Advanced concepts for thin-film polycrystalline-silicon solar cells

22nd European Photovoltaic Solar Energy Conference

Milano, Italy 03. Sep - 07. Sep 2007

Poster

Gorka, B.; Rau, B.; Lee, K.Y.; Dogan, P.; Fenske, F.; Conrad, E.; Gall S.

Hydrogen Passivation of Polycrystalline Si Thin Films by Plasma Treatment

22nd European Photovoltaic Solar Energy Conference

Milan, Italy 03. Sep - 07. Sep 2007

Oral

Huebl, H.; Stegner, A.; Hoehne, F.; Boehme, C.; Lips, K.; Stutzmann, M.; Brandt, M.;

Electrical detection of donor Rabi flops

DPG Frühjahrstagung

Regensburg 26. Mar - 30. Mar 2007

Poster

Lee, K.Y.; Becker, C.; Muske, M.; Gall, S.; Rech, B.; Gordon, I.; D'Haen, J.; Berginski, M.; Hüpkes, J.

Poly-Si Films grown on ZnO:Al coated glass substrates by aluminium-induced layer exchange process: influence of annealing temperature

22nd European Photovoltaic Solar Energy Conference

Milan, Italy 03. Sep - 07. Sep 2007

Poster

Lee, K.Y.; Muske, M.; Gordon, I.; Berginski, M.; D'Haen, J.; Hüpkes, J.; Gall, S.; Rech, B.

Large-grained poly-Si films on ZnO:Al coated glass substrates

E-MRS SPRING MEETING 2007

Strasbourg, France 28. May - 01. Jun 2007

Invited Talk

Lips, K.

Electrical detection of pulsed EPR in silicon

GDCh-meeting on Magnetic Resonance in Biophysical Chemistry

Göttingen 26. Sep - 29. Sep 2007

Oral

Nickel, N. H.

Influence of laser crystallization on hydrogen bonding in polycrystalline silicon

Workshop on Laser Processing

St. Malo, France 30. Sep - 02. Oct 2007

Invited Talk

Nickel, N. H.

Hydrogen diffusion in zinc oxide

Conference on Diffusion in Solids and Liquids "DSL'07?"

Faro, Portugal 04. Jul - 06. Jul 2007

Oral

Nickel, N. H.; Friedrich, F.; Rommeluère, J.F.; Galtier, P.

Formation of impurity complexes during the growth of undoped and nitrogen doped zinc oxide

MRS Spring Meeting

San Francisco, USA 09. Apr - 13. Apr 2007

Invited Talk

Powalla, M.; Rech, B.; Lux-Steiner, M.; Beyer, W.

Von der Grundlagenforschung zur Produktion: Entwicklungspotenziale der Dünnschichtphotovoltaik an Beispielen aus der Si- und CIS-Technik

FVS-Jahrestagung

Hannover 26. Sep - 27. Sep 2007

Poster

Rau, B.; Lee, K.Y.; Dogan, P.; Fenske, F.; Gorka, B.; Conrad, E.; Gall, S.

Improvement of epitaxially grown poly-Si thin-film solar cells on glass by rapid thermal annealing

22nd European Photovoltaic Solar Energy Conference

Milano, Italy 03. Sep - 07. Sep 2007

Invited Talk

Rech, B.

Recent progress in thin film silicon solar cells in EU

International Workshop upon Thin Film Silicon Solar Cells (IWTFSSC)

Nara, Japan 27. Feb - 02. Mar 2007

Invited Talk

Rech, B.

Silizium - Dünnschichtsolarzellen: Status und Herausforderungen

Workshop der EFDS "Beschichtungen für Solar- und lichttechnische Anwendungen"

Dresden 17. Oct - 17. Oct 2007

Invited Talk

Rech, B.

Micromorph Solar Cells - R&D Challenges

22nd European Photovoltaic Solar Energy Conference and Exhibition & 4th European PV Industry Forum

Milan, Italy 03. Sep - 07. Sep 2007

Invited Talk

Rech, B.

Dünnschichtzellen aus amorphem Silizium (a-Si) und mikrokristallinem Silizium

3. OTTI-Anwenderforum „Dünnschicht-Photovoltaikmodule“

Kloster Banz, Bad Staffelstein 05. Feb - 06. Feb 2007

Invited Talk

Rech, B.

Thin Film Silicon Solar Cells: Status, Challenges, Perspectives

1st Technology Conference Solar, Schott AG, Mainz, 4.10.2007

Mainz 04. Oct - 04. Oct 2007

Oral

Rudigier, E.; Stangl, R.; Schmidt, M.

Lifetime investigation of silicon thin film solar cells - a simulation study using AFORS-HET, Version 2.2

NUMOS Conference: Numerical Modelling of thin film solar cells

Gent, Belgium 27. Mar - 30. Mar 2007

Oral

Ruske, F.; Sittinger, V.; Szyszka, B.; Rech, B.

Applikationsbezogene Auslegung von TCO-Schichten

OTTI-Seminar

Würzburg 17. Sep - 17. Sep 2007

Oral

Scheller, L.-P.; Weizman, M.; Nickel, N. H.; Yan, B.

Metallic conduction in undoped laser-crystallized polycrystalline silicon-germanium thin films

71. Jahrestagung der Deutschen Physikalischen Gesellschaft und DPG Frühjahrstagung des Arbeitskreises Festkörperphysik

Regensburg 26. Mar - 30. Mar 2007

Oral

Stangl, R.; Geipel, T.; Kriegel, M.; El-Shater, Th.; Lips, K.

AFORS-HET 3.0: two dimensional simulations of solar cells

22nd European Photovoltaic Solar Energy Conference and Exhibition

Milan, Italy 03. Sep - 07. Sep 2007

Poster

Teplin, C.W.; Branz, H.M.; Jones, K.M.; Romero, M.J.; Stradins, P.; Gall, S.

Hot-wire chemical vapour deposition epitaxy on polycrystalline silicon seed layers

MRS Spring Meeting

San Francisco, USA 09. Apr - 13. Apr 2007

Oral

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

Laser-induced self organization of silicon-germanium hillocks for field emission displays

Laser Processing for Semiconductor Devices: Science and Technology

Saint Malo, France 01. Oct - 02. Oct 2007

Oral

Weizman, M.; Scheller, L.-P.; Nickel, N. H.; Yan, B.

Defect band formation at grain boundaries in laser-crystallized polycrystalline SiGe thin films

DPG - spring meeting

Regensburg, Germany 26. Mar - 30. Mar 2007

SE1.Hetero

Invited Talk

Angermann, H.

Electronic properties of silicon interfaces: Effect of surface morphology and wet-chemical pre-treatment

5th SSP International Workshop on Semiconductor Surface Passivation

Zakopane, Poland 16. Sep - 19. Sep 2007

Invited Talk

Angermann, H.

Wet-chemical surface preparation and electronic interface properties of atomically flat and structured Silicon substrates

13. Holzhau Meeting / TU Chemnitz

Sangerhausen / Germany 31. Oct - 02. Nov 2007

Poster

Angermann, H.; Hübener, K.; Polte, J.; Hauschild, J.

Wet-chemical smoothing and passivation of silicon substrates: studied by AFM and SPV measurements

Tag der Chemie 2007

Technische Fachhochschule Berlin 25. Jun - 25. Jun 2007

Poster

Angermann, H.; Hübener, K.; Polte, J.; Hauschild, J.;

Smoothing and passivation of special Si(111) substrates: Surface morphology and density of states studied by AFM and SPV measurements

14. Tagung Festkörperanalytik

Wien 16. Jul - 18. Jul 2007

Poster

Angermann, H.; Korte, L.; Rappich, J.; Conrad, E.; Sieber, I.; Schmidt, M.; Hübener, K.; Polte, J.; Hauschild, J.

Optimisation of electronic interface properties of a-Si:H/c-Si hetero-junction solar cells by wet-chemical surface pre-treatment

E-MRS 2007 Spring Meeting

Congress Center - STRASBOURG (France) 28. May - 01. Jun 2007

Poster

Angermann, H.; Korte, L.; Rappich, J.; Schaffarzik, D.; Conrad, E.; Sieber, I.; Schmidt, M.

Wet-chemical surface preparation and electronic interface properties of a-Si:H/c-Si hetero-junction solar cells

22nd European Photovoltaic Solar Energy Conference (EU PVSEC-2007)

Mailand, Italy 03. Sep - 07. Sep 2007

Invited Talk

Hinrichs, K.; Mikhaylova, Y.; Roodenko, K.; Ionov, L.; Gensch, M.; Esser, N.; Minko, S.; Eichhorn, K.-J.; Stamm, M.; Rappich, J.

In-situ infrared ellipsometry of thin films at liquid-solid interfaces

4th International Conference on Spectroscopic Ellipsometry

Stockholm / Schweden 11. Jun - 15. Jun 2007

Oral

Intelmann, C.M.; Hinrichs, K.; Syritski, V.; Yang, F.; Rappich, J.

Recombination Behaviour at the Ultrathin Polypyrrole Film/Silicon Interface Investigated by In-situ Pulsed Photoluminescence

EM-NANO 2007

Nagano, Japan 19. Jun - 22. Jun 2007

Poster

Intelmann, C.M.; Syritski, V.; Tsankov, D.; Hinrichs, K.; Rappich, J.

Electrochemically Deposited Ultrathin Polypyrrole Films on Silicon

GDCh-JCF Frühjahrssymposium 2007

Chemnitz 22. Mar - 24. Mar 2007

Poster

Intelmann, C.M.; Syritski, V.; Tsankov, D.; Hinrichs, K.; Rappich, J.

Electrochemical Deposition of Thin Polypyrrole Films on Silicon Substrates

5th Spring Meeting of the International Society of Electrochemistry

Dublin, Irland 01. May - 04. May 2007

Invited Talk

Korte, L.; Conrad, E.; Angermann, H.; Stangl, R. & Schmidt, M.

Overview on a-Si:H/c-Si Heterojunction Solar Cells - Physics and Technology

22nd European Photovoltaic Solar Energy Conference (EPVSEC 22)

Milano, Italy 03. Sep - 07. Sep 2007

Oral

Korte, L.; Conrad, E.; Didschuns, I.; Angermann, H.; Schmidt, M.

Advances in a-Si:H/c-Si Heterojunction Solar Cell Fabrication and Characterization

17th International Photovoltaic Science and Engineering Conference（ PVSEC-17)

Fukuoka, JP 03. Dec - 07. Dec 2007

Invited Talk

Korte, L.; Schmidt, M.

Investigation of gap states in phosphorous-doped ultra-thin a-Si:H by near-UV photoelectron spectroscopy

22nd International Conference on Amorphous and Nanocrystalline Semiconductors

Breckenridge, CO, USA 19. Aug - 24. Aug 2007

Oral

Olibet, S.; Vallat-Sauvain, E.; Ballif C.; Korte, L.; Fesquet, L.

Silicon Solar Cell Passivation using Heterostructures

17th Workshop on Crystalline Silicon Solar Cells & Modules: Materials and Processes

Vail Cascade Resort, Vail, Colorado USA 05. Aug - 08. Aug 2007

Oral

Olibet, S.; Vallat-Sauvain, E.; Ballif, C.; Korte, L.; Fesquet, L.

Heterojunction Solar Cell Efficiency Improvement on Various Flat and Textured c-Si Substrates by Interface Recombination Modeling

17th International Photovoltaic Science and Engineering Conference（ PVSEC-17)

Fukuoka, JP 03. Dec - 07. Dec 2007

Invited Talk

Rappich, J.; Yang, F.; Roodenko, K.; Güell, A.; Intelmann, C.M.; Dittrich, Th.; Hinrichs, K.

In-situ investigations of electronic and structural properties of Si surfaces during electrochemical surface functionalization

DPG meeting

Regensburg 26. Mar - 31. Mar 2007

Oral

Rölver, R.; Berghoff, B.; Bätzner, D.; Spangenberg, B.; Kurz, H.; Schmidt, M.; Stegemann, B.

Si/SiO₂ multiple quantum wells for all silicon tandem cells: Conductivity and photocurrent measurements

E-MRS 2007 Spring Meeting

Strasbourg 28. May - 01. Jun 2007

Poster

Schmidt, M.; Korte, L.

Analytical tool for gap state analysis via near UV-excited photoemission

13th International Conference on Surface Science (ICSS-13)

Stockholm, Sweden 02. Jul - 06. Jul 2007

Oral

Schmidt, M.; Schoepke, A.; Stegemann, B.

Structural and photoelectrical properties of Si/SiO₂ quantum well structures

International Conference on Nanoscience and Technology (ICN+T 2007)

Stockholm/Schweden 02. Jul - 06. Jul 2007

Poster

Schöpke, A.; Köhler, R.; Schmidt, M.

Interface reactions, gap and interface state density distribution in TCO/a-Si:H/c-Si heterostructures

ECASIA'07

Brussels, Netherland 09. Sep - 14. Sep 2007

Poster

Stangl, R.; Kriegel, M.; Geipel, T.

AFORS-HET, Version 2.2, Simulation of thin film solar cells and measurements

NUMOS, international workshop on numerical modelling of thin film solar cells, Gent, Belgium, March 28-30, 2007

Gent, Belgium 28. Mar - 30. Mar 2007

Oral

Stangl, R.; Bivour, M.; Korte, L.; Conrad, E.; Lips, K.; Schmidt, M.

A novel high efficiency solar cell concept: Buried grid rear contact amorphous/crystalline silicon heterojunction solar cells

22nd European Photovoltaic Solar Energy Conference and Exhibition

Milan, Italy 03. Sep - 07. Sep 2007

Oral

Stegemann, B.; Schoepke, A.; Schmidt, M.

Structure and photoelectrical properties of SiO₂/Si/SiO₂ single quantum wells prepared under ultrahigh vacuum conditions

22nd International Conference on Amorphous and Nanocrystalline Semiconductors (ICANS 2007)

Breckenridge, CO, USA 19. Aug - 24. Aug 2007

Oral

Stegemann, B.; Lussy, T.; Patzek, D.; Koehler, R.; Schoepke, A.; Schmidt, M.

Si/SiO₂ Quantum Well Structures: Preparation and Characterization

19th Workshop on Quantum Solar Energy Conversion (QUANTSOL 2007 Winter workshop)

Badhofgastein, Österreich 18. Mar - 23. Mar 2007

Poster

Yang, F.; Hunger, R.; Roodenko, K.; Hinrichs, K.; Rademann, K.; Rappich, J.

Vibrational and electronic properties of methylated silicon (111) surfaces in air

ECME 2007, European Conference on Molecular Electronics

Metz, France 05. Sep - 08. Sep 2007

Poster

Yang, F.; Roodenko, K.; Hinrichs, K.; Hunger, R.; Intelmann, C. M.; Rappich, J.

Grafting of small organic molecules onto silicon (111) surfaces

9th young scientists' conference on chemistry, JCF-Frühjahrssymposium

Chemnitz 22. Mar - 24. Mar 2007

Oral

Yang, F.; Roodenko, K.; Hunger, R.; Hinrichs, K.; Intelmann, C. M.; Rappich, J.

Chemical and electronic characterization of methyl and ethynyl groups grafted onto Si(111) surfaces

EM-Nano 2007, International Symposium on Organic and Inorganic Electronic Materials and Related Nanotechnologies

Nagano, Japan 19. Jun - 22. Jun 2007

SE1.Others

Oral

Boehme, C.; Harneit, W.; Schaefer, S.; Huebener, K.; Fostiropoulos, K.; Lips, K.

Control of the photocurrent in Fullerene C₆₀-thin film devices by coherent spin propagation at room temperature

7th International Conference on Optical Probes of p-Conjugated Polymers and Functional Self Assemblies

Turku, Finland 11. Jun - 15. Jun 2007

Invited Talk

Hinrichs, K.; Mikhaylova, Y.; Roodenko, K.; Ionov, L.; Gensch, M.; Esser, N.; Minko, S.; Eichhorn, K.-J.; Stamm, M.; Rappich, J.

In-situ infrared ellipsometry of thin films at liquid-solid interfaces

4th International Conference on Spectroscopic Ellipsometry
Stockholm / Schweden 11. Jun - 15. Jun 2007

Invited Talk

Lips, K.; K. Lips, C. Boehme, A. Stegner, H. Huebel, M. Stutzmann, Lips, K.; Boehme, C.; Stegner, A.; Huebel, H.; Stutzmann, M.; Brandt, M.;

Electrical readout of spin information in silicon-based quantum computers

E-MRS 2007 Spring Meeting
Strasbourg, France 28. May - 01. Jun 2007

Poster

Palazzo G., Francia F., Mallardi A., Russina M., Schnegg A., Venturoli G.

Dynamics-function Relationship in Trehalose-coated Bacterial Photosynthetic Reaction Centres from Rhodobacter sphaeroides

4th EUROPEAN CONFERENCE ON NEUTRON SCATTERING
Lund, Schweden 25. Jun - 29. Jun 2007

Poster

Pieper O., van Slageren J., Guidi T., Lake B., Mutka H., Russina M., Schnegg A., Buchsteiner A., Milios C. J., Brechin E. K., Julia A.

Inelastic neutron scattering studies of two Mn(III)-based Single Molecule Magnets

71. Jahrestagung der Deutschen Physikalischen Gesellschaft und DPG Frühjahrstagung des Arbeitskreises Festkörperphysik
Regensburg 26. Mar - 30. Mar 2007

Poster

Schnegg A., Behrends J., Lips K., Guidi T., Lake B., Bittl R., Glaser T., Holldack K.

Molecular magnets studied by a novel ultra broad band THz electron paramagnetic resonance spectrometer at BESSY

26th BESSY User Meeting
Berlin 06. Dec - 07. Dec 2007

Poster

Schnegg, A.

Molecular magnets studied by a novel ultra broad band THz EPR spectrometer

Cost 15 Training school 3 on DFT computations
Bonn 10. Oct - 13. Oct 2007

SE2.Semico

Poster

Doka, S.; Hofstetter, J.; Rusu, M.; Arushanov, E.; Lips, K.; Schedel-Niedrig, Th.; Lux-Steiner, M.Ch.

Electron Spin Resonance and Ultra Violet Photoluminescence of Ge Implanted CuGaSe₂ Thin Films Prepared by the CCSVT Technique

MRS Spring Meeting 2007
San Francisco, U.S.A. 09. Apr - 13. Apr 2007

SE5.Energetics

Oral

Koslowski, U.; Fiechter, S.; Abs-Wurmbach, I.; Lips, K.; Herrmann, I.; Bogdanoff, P.

New preparation strategy and magnetic properties of pyrolysed porphyrin-based electrocatalysts for the ORR

Annual Meeting of the International Society of Electrochemistry (ISE 2007)
Banff, Canada 09. Sep - 14. Sep 2007

Oral

Koslowski, U.; Fiechter, S.; Lips, K.; Abs-Wurmbach, I.; Behrends, J.; Schnegg, A.; Bogdanoff, P.

Synthesis and Magnetic Properties of Porphyrin-based Electrocatalysts for the Oxygen Reduction in Fuel Cells

DPG Jahrestagung 2007

Regensburg, Germany 25. Mar - 30. Mar 2007

Oral

Wünsch, F.; Klein, D.; Podlasly, A.; Ostmann, A.; Schmidt, M.; Kunst, M.

Low Temperature Contacts through SixNy-Antireflection Coatings for Inverted a-Si:H/c-Si Hetero-contact Solar Cells

PVSEC-17

Fukuoka, 03. Dec - 07. Dec 2007

SE2 - Heterogeneous material systems

SE1.Cells

Invited Talk

Powalla, M.; Rech, B.; Lux-Steiner, M.; Beyer, W.

Von der Grundlagenforschung zur Produktion: Entwicklungspotenziale der Dünnschichtphotovoltaik an Beispielen aus der Si- und CIS-Technik

FVS-Jahrestagung

Hannover 26. Sep - 27. Sep 2007

SE1.Hetero

Invited Talk

Rappich, J.; Yang, F.; Roodenko, K.; Güell, A.; Intelmann, C.M.; Dittrich, Th.; Hinrichs, K.

In-situ investigations of electronic and structural properties of Si surfaces during electrochemical surface functionalization

DPG meeting

Regensburg 26. Mar - 31. Mar 2007

SE2.Analytics

Poster

Allsop, N.; Lauermann, I.; Mönig, H.; Pistor, P.; Grimm, A.; Johnson, B.; Kropp, T.; Klenk, R.; Lux-Steiner, M. Ch.; Fischer, Ch.-H.; Gorgoi, M.; Schäfers, F.; Braun W.

Depth profiling of electronic properties and composition in chalcopyrite thin film solar cell components by hard X-ray high kinetic energy photoelectron spectroscopy (HIKE)

BESSY User Meeting

Berlin Adlershof 06. Dec - 07. Dec 2007

Oral

Belaidi, A. Dittrich, Th. Kieven, D. Tornow, J. Schwarzburg, K. Kunst, M. Allsop, N. Gavrilov, S.

Zinc Oxide Nanorod Arrays for solar cells with extremely thin sulfidic absorber

17th International Photovoltaic Science and Engineering Conference

Fukuoka, Japan 03. Dec - 07. Dec 2007

Poster

Fischer, Ch.-H.; Allsop, N.; Mönig, H.; Lauermann, I.; Camus, C.; Pistor, P.; Kropp, T.; Klenk, R.; Lux-Steiner, M. C.; Gorgoi, M.; Schäfers, F.; Braun, W.

Depth profiling of electronic properties in chalcopyrite thin film solar cell components by high energy high resolution x-ray photoemission (HIKE)

15th International Conference on Vacuum Ultraviolet Radiation Physics (VUV)

Berlin 29. Jul - 03. Aug 2007

Oral

Fuertes-Marrón, D.; Lehmann, S.; Kosk, J.; Sadewasser, S.; Lux-Steiner, M. Ch.

Growth and Characterization of Chalcopyrite Nanocrystals: Beyond Conventional Thin Films

Materials Research Society Spring Meeting 2007

San Francisco, U.S.A. 09. Apr - 13. Apr 2007

Oral

Hafemeister, M.; Siebentritt, S.; Sadewasser, S.; Frank-Rotsch, Ch.; Lux-Steiner, M. Ch.

A neutral barrier at CGS grain boundaries - Compositional and structural dependencies

Materials Research Society Spring Meeting 2007

San Francisco, U.S.A. 09. Apr - 13. Apr 2007

Poster

Hafemeister, M.; Siebentritt, S.; Sadewasser, S.; Lux-Steiner, M. Ch.

Electronic Structure of Grain Boundaries in Chalcopyrite Thin Films

22nd European Photovoltaic Solar Energy Conference

Milan, Italy 03. Sep - 07. Sep 2007

Poster

Hallmeier, K.-H.; Wett, D.; Laueremann, I.; Fostiropoulos, K.; Johnev, B.

Investigation of the system C60/ITO by X-ray absorption and resonant X-ray emission spectroscopy

15th International Conference on Vacuum Ultraviolet Radiation Physics

Berlin 29. Jul - 03. Aug 2007

Invited Talk

Laueremann, I.

Probing nanoscaled layers in thin film photovoltaic devices with synchrotron radiation

Chemical Nanotechnology Talks VIII,

Frankfurt am Main 20. Nov - 21. Nov 2007

Poster

Laueremann, I.; Mönig, H.; Camus, C.; Pistor, P.; Grimm, A.; Johnson, B.; Kropp, T.; Ennaoui, A.; Kaufmann, C.; Lux-Steiner, M. Ch.; Fischer, Ch.-H.; Jung, C.; Mast, M.

SXES of chalcopyrite solar cell components in the CISSY end-station In-situ measurements and depth profiling of layered films

BESSY User Meeting 2007

Berlin Adlershof 06. Dec - 07. Dec 2007

Oral

Sadewasser, S.; Bremsteller, W.; Plake, W.; Kaufmann, C.A.; Pettenkofer, Ch.

Microscopic investigation of the CdS buffer layer growth on Cu(In,Ga)Se₂ absorbers

Materials Research Society Spring Meeting 2007

San Francisco, U.S.A. 09. Apr - 13. Apr 2007

Oral

Sadewasser, S.; Leendertz, C.; Streicher, F.; Lux-Steiner, M. Ch.

Influence of surface topography on Kelvin probe force microscopy

10th Conference on Non-Contact Atomic Force Microscopy (NC-AFM 10)

Antalya, Turkey 16. Sep - 20. Sep 2007

Poster

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

Adjusting the resonance frequencies of higher oscillation modes by modified cantilever geometries

10th Conference on Non-Contact Atomic Force Microscopy (NC-AFM10)

Antalya, Turkey 16. Sep - 20. Sep 2007

Oral

Streicher, F.; Sadewasser, S.; Lux-Steiner, M. Ch.

Locally resolved surface photovoltage spectroscopy using KPFM

10th Conference on Non-Contact Atomic Force Microscopy (NC-AFM 10)

Antalya, Turkey 16. Sep - 20. Sep 2007

Poster

Yamada, Y.; Sadewasser, S.; Sugimoto, Y.; Custance, O.; Morita, S.

Characterization of the electrostatic interaction on substitutional Pb atoms at the Si(111)-(7x7) surface using low temperature dynamic force microscopy

10th Conference on Non-Contact Atomic Force Microscopy (NC-AFM 10)

Antalya, Turkey 16. Sep - 20. Sep 2007

SE2.Chemistry

Oral

Allsop, N.A.; Camus, C.; Gledhill, S.; Unold, Th.; Lux-Steiner, M.Ch.; Niesen, Th.; Fischer, Ch.-H.

Nanostructured ZnS:In₂S₃ buffer layers. Can voltage and efficiency be improved through interface inhomogeneities on a scale below the minority carrier diffusion length?

MRS 2007

San Francisco, U.S.A. 24. Apr - 27. Apr 2007

Poster

Camus, C., Allsop, N. A., Gledhill, S. E., Abou-Ras, D., Lauermann, I., Kropp, T., Fiechter, S., Bohne, W., Röhrich, J., Lux-Steiner, M. C., Fischer, Ch.-H.

A Systematic Study of the Deposition of CuInS₂ Spray ILGAR Layers for Photovoltaic Applications

Spring meeting of the European Materials Research Society 2007

Strasbourg, Frankreich 28. May - 01. May 2007

Oral

Camus, C.; Abou-Ras, D.; Allsop, N.; Bohne, W.; Gledhill, S.; Lauermann, M. Ch.

A systematic study on the deposition of 1µm thick CuInS₂ spray ILGAR layers

DPG-Tagung

Regensburg, Germany 26. Mar - 30. Mar 2007

Invited Talk

Ennaoui, A.

Chemical bath deposited Zn-compound buffer layers as heterojunction partner for Cu-chalcopyrite thin film solar cell devices

E-MRS Fall Meeting 2007

Warsaw, Poland 17. Sep - 21. Sep 2007

Poster

Fischer, Ch.-H.; Allsop, N.; Camus, C.; Gledhill, S.; Lux-Steiner, M. Ch.; Niesen, T.P.

Efficient and stable CIGS_{Se} Mini-Modules with Cd-free In₂S₃ Buffer Layers Deposited by the in-line Spray-ILGAR Process

22nd European Photovoltaic Conference and Exhibition 2007

Milan, Italy 03. Sep - 07. Sep 2007

Oral

Gledhill, S.; Allsop, N.; Thier, P.; Camus, C.; Lux-Steiner, M.Ch.; Fischer, Ch.-H.

Towards lower deposition temperatures of spray deposited ZnO films

MRS 2007

San Francisco, U.S.A. 24. Apr - 27. Apr 2007

Poster

Sáez-Araoz, R.; Ennaoui, A.; Niesen, T.P.; Neisser, A.; Lux-Steiner, M. Ch.

Scaling up of efficient Cd-free thin film Cu(In,Ga)(S,Se)₂ and CuInS₂ PV-devices with a Zn(S,O) buffer layer

22nd EU-PVSEC

Mailand, Italy 03. Sep - 07. Sep 2007

Invited Talk

Sáez-Araoz, R.; Ennaoui, A.; Niesen, T.P.; Neisser, A.; Lux-Steiner, M. Ch.

Use of different Zn precursors for the deposition of Zn(S,O) buffer layers by chemical bath for chalcopyrite based Cd-free thin film solar cells

E-MRS Fall Meeting

Warsaw, Poland 17. Sep - 21. Sep 2007

SE2.Concepts

Oral

Belaidi, A. Dittrich, Th. Kieven, D. Tornow, J. Schwarzburg, K. Kunst, M. Allsop, N. Gavrilov, S.

Zinc Oxide Nanorod Arrays for solar cells with extremely thin sulfidic absorber

17th International Photovoltaic Science and Engineering Conference

Japan 03. Dec - 07. Dec 2007

Oral

Bisquert, J.; Mora-Seró, I.; Dittrich, Th.; Anta, J.A.

Monitoring photoinjection and transport of electrons into metal oxides with surface photovoltage spectroscopy

E-MRS Spring Meeting 2007

Strasbourg, France 28. May - 01. Jun 2007

Oral

Chen, J.; Aichele, Ch.; Lux-Steiner, M. Ch.

Nanowires devices as switches and light emitters in flexible displays/electronic-paper

ICON 2007, 2nd International Conference on one-dimensional Nanostructures

Malmö, Sweden 26. Sep - 29. Sep 2007

Oral

Dittrich, Th.; Zabel, Ph.

Current transients in inhomogeneous Pt/TiO₂ Schottky diodes

E-MRS Spring Meeting 2007

Strasbourg, France 28. May - 01. Jun 2007

Poster

Dittrich, Th.; Zabel, Ph.; Lenzmann, F.

Au/TiO₂ contacts modified with a monolayer of Ru(dcbpyH₂)₂(NCS)₂ molecules

E-MRS Spring Meeting 2007

Strasbourg, France 28. May - 01. Jun 2007

Oral

Dittrich, Th.; Zidon, Y.; Shapira, Y.

Modulation of light induced charge separation at H₂TPP/Au junctions

E-MRS Spring Meeting 2007

Strasbourg, France 28. May - 01. Jun 2007

Poster

Gavrilov, S.; Dittrich, Th.; Lim, B.; Belaidi, A.; Lux-Steiner, M. Ch.

Ultra-thin charge selective systems based on MeS_xH_y (Me=In, Cu, Pb)

E-MRS Spring Meeting 2007

Strasbourg, France 28. May - 01. Jun 2007

Poster

Rusu, M.; Gasiorowski, J.; Wiesner, S.; Meyer, N.; Heuken, M.; Fostiropoulos, K.; Lux-Steiner, M. Ch.

Fine tailored interpenetrating donor-acceptor morphology by OVPD for organic solar cells

E-MRS Spring Meeting 2007

Strasbourg, France 28. May - 01. Jun 2007

Poster

Rusu, M.; Gasiorowski, J.; Wiesner, S.; Meyer, N.; Heuken, M.; Lux-Steiner, M. Ch.; Fostiropoulos, K.
Organic solar cells with fine-tuned morphology and donor:acceptor composition by OVPD
22nd European Photovoltaic Solar Energy Conference
Milan, Italy 03. Sep - 07. Sep 2007

SE2.Contacts

Oral

Erfurth, F.; Schähl, A.; Umbach, E.; Grimm, A.; Klenk, R.; Niesen, T.; Palm, J.
Deposition and characterization of (Zn,Mg)O buffer layers on CIGS_{Se} thin film solar cells
DPG Frühjahrstagung
Regensburg, Germany 26. Mar - 29. Mar 2007

Poster

Mainz, R.; Klaer, J.; Klenk, R.; Papathanasiou, N.
Solar cells based on Cu(In,Ga)S₂ prepared by a two-step process
22nd European Photovoltaic Conference and Exhibition 2007
Milano, Italy 03. Sep - 07. Sep 2007

Oral

Pistor, P.; Caballero, R.; Hariskos, D.; Pérez Rodríguez; Wächter, R.; Klenk, R.
Physical vapour deposition of compound indium sulphide as buffer layer in Cu(In,Ga)S₂ solar cells: Material characterisation and device performance
17th Asian PVSEC
Fukuoka, Japan 03. Dec - 07. Dec 2007

Oral

Pistor, P.; Klenk, R.
Modelling of the effect of a buried pn-junction on cell performance in chalcopyrite thin film solar cells
Workshop NUMOS
Gent 28. Mar - 30. Mar 2007

Oral

Powalla, M.; Kessler, F.; Hariskos, D.; Voorwinden, G.; Tiwari, A. N.; Bremaud, D.; Edoff, M.; Schleussner, S.; Stolt, L.; Dimmler, D.; Wächter, R.; Klenk, R.; Pistor, P.; Abou-Ras, D.; Schock, H.-W.; Kerrec, O.; Grand, P.-P.; Lincot, D.; Naghavi, N.; Perez-Rodriguez, A.; Auvray, A.
Highly productive manufacturing of CIS-based large-area modules
22nd European Photovoltaic Solar Energy Conference and Exhibition
Fiera Milano, Italy 03. Sep - 07. Sep 2007

Poster

Todorov, T.; Carda, J.; Escribano, P.; Klaer, J.; Klenk, R.
Optimization of electro deposited In₂S₃ buffer layers in CuInS₂ cells
2007 MRS Spring Meeting
San Francisco 09. Apr - 13. Apr 2007

SE2.Integration

Oral

Gordijn, A.; Klenk, R.; Köntges, M.; Wieder, S.; Stannowski, B.
Prozessentwicklung für industrielle Pilotierung von Dünnschichttechnologien
Jahrestagung des Forschungsverbands Sonnenenergie
Leibniz Universität Hannover 26. Sep - 27. Sep 2007

Poster

Unold, T.; Eisenbarth, T.; Schweigert, D.; Abou-Ras, C.; Kaufmann, C.A.; Klenk, R.; Caballero, R.; Schock, H.-W.

Defects in high-efficiency CuIn_{1-x}GaxSe₂ solar cells

22nd European Photovoltaic Conference and Exhibition 2007

Milano, Italy 03. Sep - 07. Sep 2007

SE2.Semico

Poster

Caballero, R.; Siebentritt, S.; Kaufmann, Ch. A.; Kelch, C.; Schweigert, D.; Unold, Th.; Rusu, M.; Schock, H.-W.; Lux-Steiner, M. Ch.

CuGaSe₂ -based solar cells with high open circuit voltage

MRS Spring Meeting 2007

San Francisco, U.S.A. 09. Apr - 13. Apr 2007

Poster

Doka, S.; Hofstetter, J.; Rusu, M.; Arushanov, E.; Lips, K.; Schedel-Niedrig, Th.; Lux-Steiner, M.Ch.

Electron Spin Resonance and Ultra Violet Photoluminescence of Ge Implanted CuGaSe₂ Thin Films Prepared by the CCSVT Technique

MRS Spring Meeting 2007

San Francisco, U.S.A. 09. Apr - 13. Apr 2007

Oral

Fuertes Marrón, D.; Klenk, R.

Design rules for surface conditioning of widegap chalcopyrite absorbers

Numerical Modelling of thin film solar cells (NUMOS) Workshop

Gent, Belgium 28. Mar - 30. Mar 2007

Poster

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

The microstructure of Cu(In,Ga)S₂ solar cell absorber films using three-stage and two-stage evaporation

EMRS Spring Meeting, Symposium D: Advanced materials and concepts for photovoltaics ¿AMPS¿

Strasbourg (France) 28. May - 01. Jun 2007

Invited Talk

Lux-Steiner, M. Ch.

Stand der Technik auf dem Gebiet der Solarzellen

29. Ulmer Gespräch 2007

Neu-Ulm, Germany 10. May - 11. May 2007

Invited Talk

Lux-Steiner, M. Ch.

Advanced Thin Film Technologies for Cost Effective Photovoltaics (ATHLET) - An European Effort

E-PVSEC 2007

Milano, Italy 03. Sep - 07. Sep 2007

Oral

Mainz, R.; Klaer, J.; Klenk, R.; Papathanasiou, N.

Solar cells based on CU(IN,GA)S₂ prepared by a two-step process

22nd EU-PVSEC

Milano, Italy 03. Sep - 07. Sep 2007

Invited Talk

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

Quantitative analysis of cell transparency and its implications for the design of Chalcopyrite-based tandems

17th International Photovoltaic Science and Engineering Conference (PVSEC)

Fukuoka, Japan 03. Dec - 07. Dec 2007

SE3.Baseline

Oral

*Kaufmann, C.; Caballero, R.; Unold, T.; Hesse, R.; Klenk, R.; Schorr, S.; Nichterwitz, M.; Schock, H.-W.***Depth Profiling of Cu(In,Ga)Se₂ Thin Films Grown at Low Temperatures**

17th International Photovoltaic Science and Engineering Conference (PVSEC-17)

Fukuoka, Japan 03. Dec - 07. Dec 2007

SE4.Cells

Poster

*Schwarzburg, K.; Tornow, J.; Belaidi, J.; Dittrich, T.; Kieven, D.; Kunst, M.; Allsop, N.; Gavrilov, S.***Nanometer sized semiconductor assemblies as building blocks for photovoltaic cells**

22nd European Photovoltaic Solar Energy Conference

Milano 03. Sep - 07. Sep 2007

SE5.Interfaces

Oral

*Skorupska, K.; Streicher, F.; Aggour, M.; Sadewasser, S.; Kanis, M.; Baohui, X.; Lewerenz, H. J.***Preparation and Surface Analytic Characterization of Step Bunched Si(111)**

211th ECS Meeting -2007

Chicago Illinois, USA 06. May - 10. May 2007

SE3 - Technology

SE2.Analytics

Poster

*Lauermann, I.; Mönig, H.; Camus, C.; Pistor, P.; Grimm, A.; Johnson, B.; Kropp, T.; Ennaoui, A.; Kaufmann, C.; Lux-Steiner, M. Ch.; Fischer, Ch.-H.; Jung, C.; Mast, M.***SXES of chalcopyrite solar cell components in the CISSY end-station In-situ measurements and depth profiling of layered films**

BESSY User Meeting 2007

Berlin Adlershof 06. Dec - 07. Dec 2007

Oral

*Sadewasser, S.; Bremsteller, W.; Plake, W.; Kaufmann, C.A.; Pettenkofer, Ch.***Microscopic investigation of the CdS buffer layer growth on Cu(In,Ga)Se₂ absorbers**

Materials Research Society Spring Meeting 2007

San Francisco, U.S.A. 09. Apr - 13. Apr 2007

SE2.Chemistry

Oral

*Allsop, N.A.; Camus, C.; Gledhill, S.; Unold, Th.; Lux-Steiner, M.Ch.; Niesen, Th.; Fischer, Ch.-H.***Nanostructured ZnS:In₂S₃ buffer layers. Can voltage and efficiency be improved through interface inhomogeneities on a scale below the minority carrier diffusion length?**

MRS 2007

San Francisco, U.S.A. 24. Apr - 27. Apr 2007

Oral

*Camus, C.; Abou-Ras, D.; Allsop, N.; Bohne, W.; Gledhill, S.; Lauermann, M. Ch.***A systematic study on the deposition of /µm thick CuInS₂ spray ILGAR layers**

DPG-Tagung

Regensburg, Germany 26. Mar - 30. Mar 2007

SE2.Contacts

Poster

*Mainz, R.; Klaer, J.; Klenk, R.; Papathanasiou, N.***Solar cells based on Cu(In,Ga)S₂ prepared by a two-step process**

22nd European Photovoltaic Conference and Exhibition 2007

Milano, Italy 03. Sep - 07. Sep 2007

Oral

*Powalla, M.; Kessler, F.; Hariskos, D.; Voorwinden, G.; Tiwari, A. N.; Bremaud, D.; Edoff, M.; Schleussner, S.; Stolt, L.; Dimmler, D.; Wächter, R.; Klenk, R.; Pistor, P.; Abou-Ras, D.; Schock, H.-W.; Kerrec, O.; Grand, P.-P.; Lincot, D.; Naghavi, N.; Perez-Rodriguez, A.; Auvray, A.***Highly productive manufacturing of CIS-based large-area modules**

22nd European Photovoltaic Solar Energy Conference and Exhibition

Fiera Milano, Italy 03. Sep - 07. Sep 2007

Poster

*Todorov, T.; Carda, J.; Escribano, P.; Klaer, J.; Klenk, R.***Optimization of electro deposited In₂S₃ buffer layers in CuInS₂ cells**

2007 MRS Spring Meeting

San Francisco 09. Apr - 13. Apr 2007

SE2.Integration

Poster

*Unold, T.; Eisenbarth, T.; Schweigert, D.; Abou-Ras, C.; Kaufmann, C.A.; Klenk, R.; Caballero, R.; Schock, H.-W.***Defects in high-efficiency CuIn_{1-x}Ga_xSe₂ solar cells**

22nd European Photovoltaic Conference and Exhibition 2007

Milano, Italy 03. Sep - 07. Sep 2007

SE2.Semico

Poster

*Caballero, R.; Siebentritt, S.; Kaufmann, Ch. A.; Kelch, C.; Schweigert, D.; Unold, Th.; Rusu, M.; Schock, H.-W.; Lux-Steiner, M. Ch.***CuGaSe₂ -based solar cells with high open circuit voltage**

MRS Spring Meeting 2007

San Francisco, U.S.A. 09. Apr - 13. Apr 2007

Oral

*Mainz, R.; Klaer, J.; Klenk, R.; Papathanasiou, N.***Solar cells based on CU(IN,GA)S₂ prepared by a two-step process**

22nd EU-PVSEC

Milano, Italy 03. Sep - 07. Sep 2007

SE3.Baseline

Oral

*Kaufmann, C.; Caballero, R.; Unold, T.; Hesse, R.; Klenk, R.; Schorr, S.; Nichterwitz, M.; Schock, H.-W.***Depth Profiling of Cu(In,Ga)Se₂ Thin Films Grown at Low Temperatures**

17th International Photovoltaic Science and Engineering Conference (PVSEC-17)

Fukuoka, Japan 03. Dec - 07. Dec 2007

Invited Talk

Schock, H.-W.

New Strategies for Chalcopyrites

22nd European Photovoltaics Solar Energy Conference PVSEC

Milano, Italy 03. Sep - 07. Sep 2007

Invited Talk

Schock, H.-W.

Challenges in understanding chalcopyrite semiconductors for photovoltaics

MRS 2007 Spring Meeting

San Francisco 09. Apr - 13. Apr 2007

Invited Talk

Schock, H.-W.

Chalcopyrite based solar cells, developments and production in Europe

17th International Photovoltaic Science and Engineering Conference PVSEC-17

Fukuoka, Japan 03. Dec - 07. Dec 2007

Invited Talk

Schock, H.-W.

Solartechnik: Aktuelle technische Entwicklungen und Perspektiven

DECHEMA-Kolloquium

DECHEMA-Haus, Frankfurt am Main 25. Oct - 25. Oct 2007

Invited Talk

Schock, H.-W.; Scheer, R.; Kötschau, I.; Kaufmann, C.; Unold, T.

Strategies for future developments of CIGS photovoltaic modules

20th Anniversary Workshop of Japanese Multinary Compound Research Community

Tokio 21. Sep - 21. Sep 2007

SE3.Control

Oral

Abou-Ras, D.

"Special issues of transmission electron microscopy" - presentation as part of the "Young Scientist Tutorial on Characterization Techniques for Thin-Film Solar Cells", Symposium Y

MRS 2007 Spring Meeting

San Francisco, CA, USA 09. Apr - 13. Apr 2007

Invited Talk

Abou-Ras, D.

EDX-Untersuchungen an Chalkopyritdünnschichtsolarzellen in Kombination mit Rückstreuelektronenbeugung

ThermoFisher Scientific Anwendertreffen Mikroanalyse

Günter-Köhler-Institut, Jena, Deutschland 29. Nov - 29. Nov 2007

Oral

Abou-Ras, D.; Nichterwitz, M.; Bundesmann, J.; Kaufmann, C.A.; Schorr, S.; Gholinia, A.; Konijnenberg, P.; Schock, H.W.

Solar cells from chalcopyrite-type thin films analysed by electron backscatter diffraction

DGM-DVM AK-Treffen "Mikrostrukturuntersuchungen im REM" 2007

ETH Zürich, Zürich, Schweiz 14. Jun - 15. Jun 2007

Oral

Abou-Ras, D.; Nichterwitz, M.; Caballero, R.; Kaufmann, C.A.; Unold, T.; Schorr, S.; Scheer, R.; Klaer, J.; Schock, H.W.

(Enhanced) Insight in the Microstructure and Composition of Chalcopyrite-Type Thin- Film Solar Cells

22nd European Photovoltaic Solar Energy Conference and Exhibition

Milano, Italien 03. Sep - 07. Sep 2007

Poster

Abou-Ras, D.; Nichterwitz, M.; Kaufmann, C.A.; Schorr, S.; Gibmeier, J.; Gholinia, A.; Konijnenberg, P.; Schock, H.-W.

Texture and grain-boundary analyses in chalcopyrite-type thin-film solar cells

MC 2007, 33th Conference of the Deutsche Gesellschaft für Elektronenmikroskopie
Saarbrücken, Deutschland 02. Sep - 07. Sep 2007

Oral

Abou-Ras, D.; Nichterwitz, M.; Kaufmann, C.A.; Schorr, S.; Schock, H.W.;

Preferred Orientation, Grain Sizes and Grain Boundaries of Chalcopyrite-Type Thin Films

MRS 2007 Spring Meeting

San Francisco, CA, USA 09. Apr - 13. Apr 2007

Oral

Abou-Ras, D.; Schorr, S.; Schock, H.-W.

Grain-size distributions and grain boundaries of chalcopyrite thin films

Gemeinsame Jahrestagung der Deutschen Gesellschaft für Kristallographie

Bremen, Deutschland 05. Mar - 09. Mar 2007

SE3.Others

Oral

Abou-Ras, Daniel; Schorr, Susan; Schock, Hans-Werner

Grain-size distribution and grain boundaries in chalcopyrite thin films

15. Annual meeting of the Germany Society of Crystallography

Bremen 05. Mar - 08. Mar 2007

Oral

Klöss G.; Ende, M.; Schorr, S.; Franz, A.; Gonzales Avilez, G.; Guillaume, G.

Nanocrystals in natural glas

15. Annual meeting of the Germany Society of Crystallography

Bremen, Germany 05. Mar - 08. Mar 2007

Invited Talk

Schock, H.-W.

Renewable Energies - Photovoltaics

Indo-German Workshop

Chennai, India 20. Jun - 21. Jun 2007

Oral

Schorr, S.; Tovar, M.

Cation ordering in chalcopyrite related materials

HMI-workshop "Structural investigations of adamantine photovoltaic materials"

Berlin 20. Feb - 21. Feb 2007

Invited Talk

Schorr, Susan

Materials Science with neutrons investigation of photovoltaic and thermoelectric compounds

1. International Conference on Material and Information Sciences in High Technologies

Baku, Azerbaidshchan 26. Oct - 29. Oct 2007

Oral

Schorr, Susan; Höbler, H.-J.; Tovar, M.

Cation order and disorder in kesterite

15. Annual meeting of the Germany Society of Crystallography

Bremen 05. Mar - 08. Mar 2007

Oral

Schorr, Susan; Höhne, M.; Korzun B.

Magnetic properties of Mn substituted I-III-VI₂ semiconductors

Materials Research Society (MRS) Spring Meeting

San Francisco, USA 09. Apr - 13. Apr 2007

Oral

Schorr, Susan; Sheptyakov, D.

Low temperature thermal expansion in sphalerite and chalcopyrite type multinary semiconductors

4. European Conference on Neutron Scattering

Lund, Schweden 25. Jun - 29. Jun 2007

Oral

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

Structure and microstructure of Zn₂x(CuBIII)_{1-x}X₂ semiconductors (BIII=Ga, In ; X=S,Se,Te)

Materials Research Society (MRS) Spring Meeting

San Francisco, USA 09. Apr - 13. Apr 2007

SE5.Energetics

Oral

Tomm, Y.; Schorr, S.; Fiechter, S.

Crystal growth of Argyrodite-type phases of Cu_{8-x}GeS_{6-x} and Cu_{8-x}GeSe_{6-x}

15th International Conference on Crystal Growth

Salt Lake City, Utah, USA 12. Aug - 17. Aug 2007

Poster

Tomm, Y.; Schorr, S.; Fiechter, S.

Crystal growth and thermal stability of CuAlS₂ and CuAlSe₂

15th International Conference on Crystal Growth

Salt Lake City, Utah, USA 12. Aug - 17. Aug 2007

SE4 - Dynamics of interfacial reactions

SE2.Concepts

Oral

Belaidi, A. Dittrich, Th. Kieven, D. Tornow, J. Schwarzburg, K. Kunst, M. Allsop, N. Gavrilov, S.

Zinc Oxide Nanorod Arrays for solar cells with extremely thin sulfidic absorber

17th International Photovoltaic Science and Engineering Conference

Japan 03. Dec - 07. Dec 2007

SE4.Cells

Oral

Döscher, H.; Hannappel, T.; Kunert, B.; Volz, K.; Stolz, W.

In-situ RAS an GaP(100) auf MOVPE-präpariertem Si(100)

DGKK-Workshop Epitaxie von III/V-Halbleitern

Marburg 06. Dec - 07. Dec 2007

Oral

Julian Tornow and Klaus Schwarzburg

Electrical properties of ZnO nanorod electrodes for solar cell application

The International Conference

Moscow, Russia 01. Oct - 03. Oct 2007

Oral

N. Szabó, U. Seidel, E. Sagol, K. Schwarzburg, T. Hannappel

Monolithische III-V-Tandemsolarzelle auf InP(100) mit InGaAs/GaAsSb-Tunnel-Diode

DGKK Workshop

Marburg, Germany 06. Dec - 07. Dec 2007

Poster

Sagol, B.E.; Seidel, U.; Szabo, N.; Höhn, C.; Schwarzburg, K.; Hannappel, T.

Progress in the Development of an InGaAsP/InGaAs Tandem Solar Cell

22nd European Photovoltaic Solar Energy Conference

Fiera Milano - ITALIEN 03. Sep - 07. Sep 2007

Oral

Schwarzburg, K.

Introduction to the Quantsol 'Novel concepts and 3rd generation photovoltaics' session

19th Workshop on Quantum Solar Energy Conversion

Bad Hofgastein, Austria 18. Mar - 23. Mar 2007

Oral

Schwarzburg, K.; Tornow, J.

Electrical Response of Wet Chemically Grown ZnO Nanorods for Photovoltaic Application

E-MRS 2007 Spring Meeting

Strasbourg 28. May - 01. Jun 2007

Poster

Schwarzburg, K.; Tornow, J.; Belaidi, J.; Dittrich, T.; Kieven, D.; Kunst, M.; Allsop, N.; Gavrilov, S.

Nanometer sized semiconductor assemblies as building blocks for photovoltaic cells

22nd European Photovoltaic Solar Energy Conference

Milano 03. Sep - 07. Sep 2007

Oral

Seidel, U.; Hannappel, T.

MOVPE-präparierte InGaAs-Oberflächen

DGKK-Workshop Epitaxie von III/V-Halbleitern

Marburg 06. Dec - 07. Dec 2007

Oral

Seidel, U.; Sagol, B.E.; Schwarzburg, K.; Hannappel, T.

InGaAsP/InGaAs tandem solar cells

19th Workshop on Quantum Solar Energy Conversion

Bad Hofgastein 18. Mar - 23. Mar 2007

Poster

Seidel, U.; Sagol, B.E.; Szabo, N.; Albrecht, W.; Schwarzburg, K.; Hannappel, T.

InGaAs/GaAsSb tunnel junction in an InP(100)-based low band gap tandem solar cell

Frühjahrstagung der DPG

Regensburg 26. Mar - 30. Mar 2007

Oral

Seidel, U.; Sagol, B.E.; Szabo, N.; Schwarzburg, K.; Hannappel, T.

InGaAs/GaAsSb-interface studies in a tunnel junction of a low band gap tandem solar cell

E-MRS Spring Meeting

Strasbourg/France 28. May - 01. Jun 2007

Oral

Seidel, U.; Sagol, B.E.; Szabo, N.; Schwarzburg, K.; Hannappel, T.

InP(100)-based low band gap tandem solar cell with an InGaAs/GaAsSb tunnel junction

Frühjahrstagung der DPG

Regensburg 26. Mar - 30. Mar 2007

Poster

Seidel, U.; Sagol, B.E.; Szabo, N.; Schwarzburg, K.; Hannappel, T.

InGaAs/GaAsSb tunnel junction in an InP(100)-based low band gap tandem solar cell

European Workshop on MOVPE

Bratislava, Slovakia 03. Jun - 06. Jun 2007

Oral

U. Seidel and T. Hannappel

Interface studies of an MOVPE-prepared InGaAs/GaAsSb tunnel junction

11-th International Conference on the Formation of Semiconductor Interfaces

Manaus, Brasil 19. Aug - 24. Aug 2007

Oral

U. Seidel, B.E. Sagol, K. Schwarzburg, T. Hannappel

InGaAsP/InGaAs tandem solar cells

Quantum Solar Energy Conversion

Bad Hofgastein, Austria 18. Mar - 23. Mar 2007

Oral

U. Seidel, B.E. Sagol, N. Szabó, K. Schwarzburg, T. Hannappel

In-situ control and UHV-benchmarking to prepare an improved tunnel junction of a III-V tandem solar cell

15th International Conference on on Crystal Growth

Salt Lake City, Utah, USA 12. Aug - 17. Aug 2007

SE4.Dynamics

Poster

A. Neubauer, J. Szarko, C. Dinkel, G. Morbach; L. Socaciu-Siebert, R. Eichberger, F. Willig

Effects of different bridge/anchor groups on the mechanisms of ultrafast heterogeneous electron transfer in a dye/semiconductor system.

DPG-Frühjahrstagung

Düsseldorf, Germany 19. Mar - 23. Mar 2007

Oral

Neubauer, A., Szarko, J., Eichberger, R., Lettau, O., Dinkel,

Distance Dependence of the Dynamics of Ultrafast Heterogeneous Electron Transfer for Systematically Varied Dyes in a Dye/Semiconductor System

ICP - International Conference on Photochemistry

Köln, Germany 29. Jul - 03. Aug 2007

Oral

Szarko, J.; Neubauer, A.; Socaciu-Siebert, L.; Eichberger, R.

Ultrafast interfacial carrier dynamics

19th Workshop on Quantum Solar Energy Conversion

Bad Hofgastein, Austria 18. Mar - 23. Mar 2007

SE4.Others

Oral

A. Chemseddine

Titanium Polyanions and the Growth of Titania and Titanates Nanostructures

XIVth International Sol-Gel Conference

Montpellier, France 02. Sep - 07. Sep 2007

Poster

Janata, E.

Early stages in the growth of small silver cluster

25th Miller Conference on Radiation Chemistry

Buxton, U.K. 14. Apr - 19. Apr 2007

Oral

Janata, E.

Early stages in the growth of small silver cluster

106. Hauptversammlung der Bunsengesellschaft für Physikalische Chemie

Graz / Österreich 17. May - 19. May 2007

SE5 - Solar energy

SE1.Others

Oral

Koslowski, U.I.; Fiechter, S.; Lips, K.; Abs-Wurmbach, I.; Behrends, J.; Schmithals, G.; Bogdanoff, P.;

Synthesis and magnetic properties of porphyrin-based electrocatalysts for the oxygen reduction in a fuel cell

DPG Frühjahrstagung

Regensburg 26. Mar - 30. Mar 2007

SE2.Concepts

Oral

Belaidi, A. Dittrich, Th. Kieven, D. Tornow, J. Schwarzburg, K. Kunst, M. Allsop, N. Gavrilov, S.

Zinc Oxide Nanorod Arrays for solar cells with extremely thin sulfidic absorber

17th International Photovoltaic Science and Engineering Conference

Japan 03. Dec - 07. Dec 2007

SE4.Cells

Poster

Schwarzburg, K.;Tornow,J.;Belaidi, J.;Dittrich, T.;Kieven, D.; Kunst,M.; Allsop,N.;Gavrilov, S.

Nanometer sized semiconductor assemblies as building blocks for photovoltaic cells

22nd European Photovoltaic Solar Energy Conference

Milano 03. Sep - 07. Sep 2007

SE5.Energetics

Oral

Brunken, S., Mientus, R., Ellmer, K.

Nickel-induzierte schnelle Kristallisation reaktiv gesputterter Wolframdisulfid-Schichten.

Erfahrungsaustausch Oberflächentechnologie mit Plasma- und Ionenstrahlprozessen

Mühlleithen 13. Mar - 15. Mar 2007

Oral

Brunken, S., Seeger, S., Mientus, R., Ellmer, K.

Nickel-sulphide induced rapid crystallization of strongly (001)-textured tungsten disulphide thin films

IVC17 / ICSS13 and ICN+T 2007

Stockholm 02. Jul - 06. Jul 2007

Poster

D. Klein, F. Wuensch, M. Schmidt, M. Kunst & A. Ostmann, A. En Naciri

Improved light coupling into a-Si:H/c-Si Heterojunction Solar cells

22nd European Photovoltaic Solar Energy Conference and Exhibition, Milano

Milano, Italien 03. Sep - 07. Sep 2007

Poster

D. Klein, M. Kunst, F. Wuensch, A. En Naciri

Utilization of silicon nitride as a passivation and anti-reflection coating for silicon solar cells

Innovations on Thin Films Processing and Characterisation.

Nancy, Frankreich 20. Nov - 23. Nov 2007

Oral

Ellmer, K.

Ion-Energy Distributions in Reactive Magnetron Sputtering of Sulfides

17th Int. Vacuum Congress/13th Int. Conference on Surface Science

Stockholm, Sweden 02. Jul - 06. Jul 2007

Invited Talk

Ellmer, K., Mientus, R.

The Influence of Grain Boundaries on the Carrier Transport in the Polycrystalline Transparent Conductive Oxides ZnO and In₂O₃

5th Int Symposium on Transparent Oxide Thin Films

Shonan Village, Japan 21. May - 22. May 2007

Invited Talk

Ellmer, K., Seeger, S.; Unold, T.

Effiziente Dünnschichtsolarzellen durch reaktives Magnetronspütern von CuInS₂

Vakuumbeschichtung und Plasmaoberflächentechnik 2007

Dresden, Germany 16. Oct - 18. Oct 2007

Oral

Ellmer, K.; Seeger, S.; Brunken, S.; Kunst, M.; Mientus, R.;

Preparation Routes Based on Reactive Magnetron Sputtering for Tungsten Disulfide Films (WS₂) for Thin Film Solar Cells

18th Int. Symposium on Plasma Chemistry

Kyoto, Japan 26. Aug - 31. Aug 2007

Poster

Fiechter, S.; Bogdanoff, P.; Herrmann, I.; Schmithals, G.; Zehl, G.; Dorbandt, I.; Hoell, A.; Haas, S.; Tributsch, H.

Novel platinum free electrocatalysts for the oxygen reduction reaction in acidic media

Tenth Grove Fuel Cell Symposium

London, UK 25. Sep - 27. Sep 2007

Invited Talk

Fiechter, S.; Bogdanoff, P.; Zehl, G.; Dorbandt, I.; Mette, K.; Herrmann, I.; Koslowski, U.; Tributsch, H.

Preparation strategies and structure - activity relationship of platinum-free electrocatalysts

2007 E-MRS FALL MEETING;

Warschau, Polen 17. Sep - 21. Oct 2007

Invited Talk

Fiechter, S.; Zehl, G.; Schmithals, G.; Dorbandt, I.; Herrmann, I.; Bogdanoff, P.

In-situ XAFS Investigation Probing Selenium Modified Ruthenium Electrocatalyst under Oxygen Reduction Conditions

212th ECS Meeting, Washington, DC, 2007, Nanomaterials for Energy Conversion and Storage B7

Washington, DC 07. Oct - 12. Oct 2007

Poster

Herrmann, I., Bogdanoff, P. and Fiechter, S.

Correlation of the mesoscopic and molecular structure of carbon formed via pyrolysis of CoTMPP with its electrocatalytic activity in the oxygen reduction

Bunsentagung: Heterogene Neuartige Kohlenstoffstrukturen

Graz, Österreich 17. May - 19. May 2007

Invited Talk

Herrmann, I., Bogdanoff, P., Dorbandt, I., Fiechter, S., Koslowski, U., Zehl, G.

Selektive Sauerstoffreduktion an Platin-freien Kathoden

Fachkolloquium

Schwerin 13. Sep - 14. Sep 2007

Oral

Koslowski, U.; Fiechter, S.; Abs-Wurmbach, I.; Lips, K.; Herrmann, I.; Bogdanoff, P.

New preparation strategy and magnetic properties of pyrolysed porphyrin-based electrocatalysts for the ORR

Annual Meeting of the International Society of Electrochemistry (ISE 2007)

Banff, Canada 09. Sep - 14. Sep 2007

Oral

Koslowski, U.; Fiechter, S.; Lips, K.; Abs-Wurmbach, I.; Behrends, J.; Schnegg, A.; Bogdanoff, P.

Synthesis and Magnetic Properties of Porphyrin-based Electrocatalysts for the Oxygen Reduction in Fuel Cells

DPG Jahrestagung 2007

Regensburg, Germany 25. Mar - 30. Mar 2007

Invited Talk

Kunst, M.

Silicon nitride film for silicon solar cells

Eingeladener Vortrag

Portici (ENEA) Italien 15. May - 15. May 2007

Oral

Martinez Moreno, E.; Moehl, T.; Kunst, M.; Tributsch, H.

Microwave electrochemical impedance studies on WSe₂

SP-2 Aberdeen

Aberdeen 23. Jul - 25. Jul 2007

Oral

Neumann, B.; Bierau, F.; Ellmer, K.; Tributsch, H.

Nb-doped TiO₂ Layers as Optical Windows for Solar cells

Faraday-Discussions 138 (Poster)

Birmingham, England 03. Sep - 05. Sep 2007

Oral

P. Bogdanoff, S. Fiechter, G. Zehl, I. Dorbandt, A. Hoell*

Structural investigation of selenium modified ruthenium nano particles as an alternative catalyst for the electroreduction of oxygen

58th Annual Meeting

Banff, Canada 09. Sep - 14. Sep 2007

Oral

Seeger, S.; Harbauer, K.; Ellmer, K.

Reactive Magnetron Sputtering from Tungsten, Copper and Indium Targets in Ar/H₂S: Measurement of Ion-Energy Distributions at the Substrate

18th Int. Symposium on Plasma Chemistry

Kyoto, Japan 26. Aug - 31. Aug 2007

Poster

Seeger, S.; Unold, Th.; Ellmer, K.

Reactive Magnetron Sputtering of CuInS_2 Films: Process Stability of the Solar Cell Properties

22th European Photovoltaic Solar Energy Conference

Milan, Italy 03. Sep - 09. Sep 2007

Oral

Tomm, Y.; Schorr, S.; Fiechter, S.

Crystal growth of Argyrodite-type phases of $\text{Cu}_{8-x}\text{GeS}_6\text{-xI}_x$ and $\text{Cu}_{8-x}\text{GeSe}_6\text{-xI}_x$

15th International Conference on Crystal Growth

Salt Lake City, Utah, USA 12. Aug - 17. Aug 2007

Poster

Tomm, Y.; Schorr, S.; Fiechter, S.

Crystal growth and thermal stability of CuAlS_2 and CuAlSe_2

15th International Conference on Crystal Growth

Salt Lake City, Utah, USA 12. Aug - 17. Aug 2007

Invited Talk

Tributsch, H.

Materialforschung für die Solarenergetik

Symposium "Materialforschung für Innovationen in der Region Berlin/Brandenburg

Potsdam 27. Sep - 27. Sep 2007

Oral

Wünsch, F.; Klein, D.; Podlasly, A.; Ostmann, A.; Schmidt, M.; Kunst, M.

Low Temperature Contacts through SixNy-Antireflection Coatings for Inverted a-Si:H/c-Si Hetero-contact Solar Cells

PVSEC-17

Fukuoka, 03. Dec - 07. Dec 2007

Poster

Zehl, G.; Hoell, A.; Haas, S.; Dorbandt, I.; Schmithals, G.; Bogdanoff, P.; Fiechter, S.

On the structure of carbon supported RuSeX -nanoparticles as electro-catalysts for the oxygen reduction in fuel cells

Joint Symposium of Collaborative Research Centers SFB 546 and SFB 558 From clusters to catalysts

Erkner bei Berlin 28. Oct - 31. Oct 2007

SE5.Interfaces

Oral

H.-J. Lewerenz

Fourth Generation Solar Cells: Biomimetic Approaches

Workshop on Electron Transfer in Biocorrosion and 4. Generation Solar Cells

Portsmouth, UK 09. Dec - 09. Dec 2007

Invited Talk

Dr. H.-J. Lewerenz

Advanced Solar Energy Conversion Concepts

Inaugural Talk at the 1. Research Triangle Energy Consortium Meeting, invited

Research Triangle Park, North Carolina, 28. Jun - 28. Jun 2007

Invited Talk

Lewerenz, H.-J.

**Electrodeposition on Photoelectrochemically Prepared Silicon Nanostructures: Solar Applications
Hothersall Memorial Award Lecture**

Annual General Meeting of the Institute of Metal Finishing

Birmingham, 30. Nov - 30. Nov 2007

Invited Talk

Lewerenz, H.-J., Aggour, M., Stempel Pereira, T., Lublow, M., Grzanna, J., Skorupska, K.

Photoactive Device by Electrochemical Processing of Silicon

3rd Internat. IEEE Sci. Conf. on Physics and Control

Potsdam, 04. Sep - 04. Sep 2007

Invited Talk

Lewerenz, H.J.; Skorupska, K.

Self Organized nanotopographies for Photovoltaic and Proteomic Applications

2007 E-MRS Fall Meeting

Warsaw University of Technology, Poland 16. Sep - 21. Sep 2007

Oral

Lewerenz, H.J.; Stempel Pereira, T.

Initial Stages of Metal Electrodeposition onto Si Single Crystal Electrodes

CRG Meeting

Bischofsmühle 26. Jan - 28. Jan 2007

Oral

Lublow, M.; Lewerenz, H. J.

Nanotopography Development on Silicon Electrodes by Analysis of Brewster Angle Real-Time Spectroscopy

211th ECS Meeting

Chicago, Illinois 06. May - 10. May 2007

Invited Talk

Lublow, M.; Lewerenz, H. J.

Electrochemical conditioning of fractal topographies at the silicon oxide/silicon interface

PhysCon 2007 (invited talk)

University of Potsdam, Germany 03. Sep - 07. Sep 2007

Oral

Lublow, M.; Lewerenz, H. J.

Interface Condition during Oscillatory Behavior of Silicon Photoelectrodes Investigated by Brewster Angle Reflectometry

DPG Frühjahrstagung

Regensburg 26. Mar - 30. Mar 2007

Invited Talk

Skorupska, K.; Lewerenz, H.J.

From Electrochemically Induced Nanostructures to More Complex Systems

Workshop: Electrons and light in self-organized systems

University of Portsmouth, Great Britain 12. Mar - 12. Mar 2007

Oral

Skorupska, K.; Lublow, M.; Kanis, M.; Lewerenz, H.J.

Combined SRPES and SPM on selected Nanostructures on Silicon

2007 E-MRS Fall Meeting

Warsaw University of Technology, Poland 16. Sep - 21. Sep 2007

Poster

Skorupska, K.; Lublow, M.; Kanis, M.; Stempel-Pereira, T.; Lewerenz, H.J.

Combined SRPES and AFM model experiments on Pt electrodeposition on Si(111)-(1x1)H : characterization of nano-emitter solar cells

BESSY 26th Annual Users' Meeting

Bessy, Adlershof, Germany 06. Dec - 07. Dec 2007

Oral

Skorupska, K.; Lublow, M.; Lewerenz, H.J.

**Comparison of Chemical and Electrochemical Dissolution of Si in Alkaline Solution:
Nanotopographies and Surface Electronics**

Cooperating Research Group (CRG) Meeting
Bischofsmühle, Germany 26. Jan - 27. Jan 2007

Invited Talk

Skorupska, K.; Smith, J.R.; Campbell, S.A.; Mernagh, D.; Streicher, F.; Lewerenz, H.J.

Adsorption of biomolecules on self-organized nanostructured semiconductor surfaces

SMCBS'2007, Surface Modification for Chemical and Biochemical Sensing
Wlodowice Poland 04. Nov - 08. Nov 2007

Oral

Skorupska, K.; Streicher, F.; Aggour, M.; Sadewasser, S.; Kanis, M.; Baohui, X.; Lewerenz, H. J.

Preparation and Surface Analytic Characterization of Step Bunched Si(111)

211th ECS Meeting -2007
Chicago Illinois, USA 06. May - 10. May 2007

Oral

Stempel Pereira, T.; Lewerenz, H.-J.

Design of an in situ Electrochemistry Cell For SoXBIC and NEXAFS

CRG Meeting, Culmitz
Culmitz 06. Jul - 08. Jul 2007

Oral

Stempel Pereira, T.; Skorupska, K; Lewerenz, H.J.

Electrochemically prepared Schottky-type Nanoemitter Solar Cells

71. Jahrestagung der Deutschen Physikalischen Gesellschaft und DPG Frühjahrstagung des Arbeitskreises
Festkörperphysik
Regensburg 26. Mar - 30. Mar 2007

SF3.BESSY

Oral

Haas, S.; Hoell, A.; Zehl, G.; Dorbandt, I.; Bogdanoff, P.; Fiechter, S.

Structural investigation of Carbon Supported Ru-Se Based Catalysts using Anomalous Small Angle X-Ray Scattering

211th Electrochemical Society Meeting
Chicago, USA 06. May - 10. May 2007

SE6 - Electronic structure of semiconductor interfaces

SE2.Analytcs

Oral

Sadewasser, S.; Bremsteller, W.; Plake, W.; Kaufmann, C.A.; Pettenkofer, Ch.

Microscopic investigation of the CdS buffer layer growth on Cu(In,Ga)Se₂ absorbers

Materials Research Society Spring Meeting 2007
San Francisco, U.S.A. 09. Apr - 13. Apr 2007

SE6.BESSY

Oral

Hoffmann, P.; Andres, S.; Pettenkofer C.

Chemical Nature of N Incorporated in ZnO During Epitaxial Film Growth

MRS Fall Meeting
Boston, MA (USA) 26. Nov - 30. Nov 2007

Invited Lectures

SF - Structural Research

SF - BENSC

SF1.BENSC

Rule, K.C

How Frustrating: Removing the “frustration from the antiferromagnets Tb₂Ti₂O₇ and Tb₂Sn₂O₇

Invited Physics Seminar: Monash University

Monash University, Melbourne Australia, 14.02.2007

SF2.BENSC

Rupp, A.

Overview of the ³He-NSF project at HMI

7. NSF-JRA Meeting

Grenoble, 16.04.2007

Rupp, A.; Nünighoff, K.; Klenke, J.; Keiderling, U.; Wiedenmann, A.; Heil, W.

Filling station to polarise ³He and ³He-NSF at V4 (SANS)

5th General NMI3 Meeting

Bilbao, Spain, 08.10.2007

SF - ISL

ISL.User

Denker, A.

Swift Ion Beams for Solid State Physics and Materials Science, Medicine and Science of Art

Graduate School of Information Engineering

Salerno, Italien, 02.04.2007

SF - BESSY

SF2.BESSY

Schmitz, D.

Untersuchung des “exchange bias” und unkompensierter antiferromagnetischer Momente in fcc Co/FeMn/Cu(001) mit polarisierter Weichröntgenstrahlung

Forschungsseminar der Arbeitsgruppe "Physik der Grenzflächen und dünnen Schichten"

Humboldt-Universität zu Berlin

11.07.2007

SF1 - Methods and Instruments

SF1.Dynamics

Pappas, C.

From here to infinity - relaxation in glasses and spin glasses

TU Delft, 03.12.2007

SF2 - Magnetism**SF2.Quantum Phenomena**

Tennant, A.

Quantum phase transitions in condensed matter

Colloquium of Physics Department
TU Berlin, 25.01.2007

SF2.Thin films

Holub-Krappe, E.

Soft X-ray Studies of the Spin Reorientation in Thin Au/Co/Au Films

Eingeladener Vortrag an der University M.C.S. Lublin, Poland
Lublin, Poland, 12.04.2007

SF6.Others

Bordallo, H.N.

Isotopic Effects in the smallest chiral amino acid

Laboratory for Neutron Scattering (LNS) /PSI/ ETH Seminar
Villigen, PSI - CH, 31.10.2007

SF3 - Materials**SF3.Light weight mat.**

Banhart, J.

Flüssige Metallschäume - ein weiches System im Lichte harter Röntgenstrahlen

Berliner Physikalisches Kolloquium
Magnus-Haus, Berlin, 06.12.2007

Banhart, J.

Metal Foams - The unknown physics of stabilisation

Kolloquiumsvortrag an der Universität Göttingen
Göttingen, Germany, 11.06.2007

Garcia-Moreno, F.

Radiographie mit Röntgenstrahlung im Labor und im Weltraum

DLR Köln
Köln,, 16.10.2007

SF3.Microstructure

Abromeit, C.

Simulation of Irradiation - Induced local Phase Transformations in a Model Ni-Al Alloy

Vortrag am BARC, Mumbai
Mumbai, India, 27.12.2007

SF6 - Trace Elements**SF6.Others**

Bordallo, H.N.

Isotopic Effects in the smallest chiral amino acid

Laboratory for Neutron Scattering (LNS) /PSI/ ETH Seminar
Villigen, PSI - CH, 31.10.2007

SF7 - Measurement instrumentation**SF7.Detector**

Gebauer, Burckhard

Development of very high rate and resolution neutron detectors incl. readout and data acquisition hard- and software in DETNI

Seminarvortrag, BESSY
Berlin, 30.11.2007

SF8 - Struktur und Dynamik**SF8.Structures**

Zeit, W.-D.; Prandolini, M. J.; Brewer, W. D.; Imielski, P. and the ISOLDE Collaboration

Observation of polarised s-levels at Cd guest atoms on Nickel-surfaces

Atomphysik-Seminar der GSI
Darmstadt 21. Nov - 21. Nov 2007

Zeit, W.-D.; Prandolini, M. J.; Manzhur, Y.; Brewer, W. D.; Imielski, P. and the ISOLDE Collaboration

Polarisierte s-Zustände an Fremdatomen auf Nickel-Oberflächen

Seminar der AG Prof. Brewer,
Berlin 29. Nov - 29. Nov 2007

SE - Solar Energy Research

SE1 - Silicon photovoltaics

SE1.Cells

Behrends, J.

Spin-dependent transport and recombination in silicon-based thin-film solar cells

Kolloquiumsvortrag

TU München, Walter Schottky Institut, 23.11.2007

Lips, K.

Quantenbits in Silizium

Physikalisches Kolloquium der Universität Würzburg

Würzburg, 02.07.2007

Lips, K.

New approaches in EPR spectroscopy to study old problems in amorphous and microcrystalline silicon

National Renewable Energy Laboratory (NREL)

Golden, Co, USA, 28.08.2007

Lips, K.

Spins in Silizium-Solarzellen

Physikalisches Kolloquium der RWTH Aachen

Aachen, 15.11.2007

Rech, B.

Thin Film Silicon Solar Cells: Status and Challenges

Kolloquiumsvortrag am Fraunhofer Institut IST

Braunschweig, 10.07.2007

Rech, B.

Stand und Perspektiven von Silizium - Dünnschichtsolarzellen

ISFH-Kolloquium

Hameln, 26.06.2007

Rech, B.

Photovoltaik mit dünnen Schichten - Herausforderungen einer neuen Technologie

„Solartag Berlin-Adlershof“, PV-Event der WISTA

Berlin, 26.10.2007

SE1.Hetero

Korte, L.

Elektronische Zustände in a-Si:H/c-Si Heterostrukturen

Kolloquiumsvortrag am IV. Phys. Inst. (Halbleiterphysik) der Georg-August-Universität Göttingen

Göttingen, 18.01.2007

Korte, L.

Bandlücken-Zustände von ultradünnen a-Si:H-Schichten und a-Si:H/c-Si Grenzflächen-Eigenschaften

Kolloquiumsvortrag am ISE Freiburg

Freiburg, 06.11.2007

Korte, L.; Schmidt, M.

Gap states of ultra-thin a-Si:H and their relation to a-Si:H/c-Si interface properties

Kolloquiumsvortrag am National Renewable Energy Laboratory

Golden, CO, USA, 27.08.2007

Rappich, J.

In-situ photoluminescence and photovoltage investigations during grafting of benzene derivatives onto Si surfaces in aqueous solutions

Kolloquiumsvortrag des Instituts für Analytische Wissenschaft ISAS
Berlin, 31.01.2007

Schmidt, M.

Stand der Forschung und Applikationspotential von a-Si/c-Si Heterosolarzellen

4. Solarmeeeting am Institut für Halbleiterphysik
Frankfurt/Oder, 19.09.2007

Schmidt, M.

Entwicklungen für zukünftige Si-basierte Solarzellen

IHP-Symposium
Institut für Halbleiterphysik Frankfurt/O, 18.04.2007

Schmidt, M.; Korte, L.; Laades, A.; Stangl, R.; Schubert, Ch.

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

Institutskolloquium
BTU-Cottbus, 05.06.2007

Stegemann, B.

Si/SiO₂ Single Quantum Wells prepared in UHV: Structure and photoelectrical properties

Kolloquiumsvortrag am National Renewable Energy Laboratory (NREL)
Golden, CO, USA, 27.08.2007

SE1.Others

Schnegg, A.

THz Electron Paramagnetic Resonance (EPR) at BESSY

BESSY Colloquium
Berlin, 26.07.2007

SE2 - Heterogeneous material systems

SE2.Analytiks

Lauermann, I.

Photovoltaik

AK Bauphysik der Brandenburgischen Ingenieurskammer
Potsdam, Germany, 20.02.2007

Lauermann, I.

Photovoltaik

Sitzung des AK Bauphysik der Brandenburgischen Ingenieurskammer
Potsdam, 20.02.2007

Sadewasser, S.

Resonance Enhanced Kelvin Probe Force Microscopy for Semiconductor Characterization on the Nanoscale

Universidad del Valle
Cali, Colombia, 28.02.2007

Sadewasser, S.

Kelvin probe force microscopy on semiconductors

Washington University
St. Louis, MO, U.S.A., 02.04.2007

Sadewasser, S.

Kelvin Probe Force Microscopy on Semiconductors

University of Nevada

Las Vegas, NV, U.S.A., 04.04.2007

Sadewasser, S.

Kelvin probe force microscopy on semiconductors

University of California

Irvine, CA, U.S.A., 23.03.2007

Sadewasser, S.

Resonance Enhanced Kelvin Probe Force Microscopy for Semiconductor Characterization on the Nanoscale

Universidad de los Andes

Bogota, Colombia, 02.03.2007

Sadewasser, S.

Resonance Enhanced Kelvin Probe Force Microscopy for Semiconductor Characterization on the Nanoscale

Universidad de Antioquia

Medellin, Colombia, 27.02.2007

Sadewasser, S.

Resonance Enhanced Kelvin Probe Force Microscopy for Semiconductor Characterization on the Nanoscale

Universidad del Norte

Barranquilla, Colombia, 22.02.2007

Sadewasser, S.

Kelvin Probe Force Microscopy on Semiconductors

Freie Universität Berlin

Berlin, Germany, 02.02.2007

SE2.Chemistry

Ennaoui, A.

Performance of the first solar cells based on CZTS, kesterite thin film solar cell

Projektmeeting

Universität Erlangen, Germany, 14.09.2007

Ennaoui, A.

SEM Cross sectional analysis

Projektmeeting

HMI, Berlin, Germany, 15.05.2007

Ennaoui, A.

Vorstellung der Arbeiten der "Wet Chemical Group"

Firma Atotech GmbH

Berlin, Germany, 23.02.2007

SE2.Concepts

Dittrich, Th.

Research in Photovoltaics at the Hahn-Meitner-Institute

Doktoranden-Kolloquium

Tallinn Technical University, Estland, 04.10.2007

Dittrich, Th.

Aspects of composite solar cells

Seminar

ECN, Petten, The Netherlands, 29.03.2007

Dittrich, Th.

Charge separation in nanostructured systems

Seminar am Departamento de Sistemas Fisicos, Quimicos y Naturales

Universidad Pablo de Olavide, Sevilla, 19.04.2007

Dittrich, Th.

Charge separation studied by surface photovoltage techniques

Seminar bei Prof. Feldmann

Ludwig Maximilian Universität, München, 01.02.2007

Dittrich, Th.

Charge separation studied by surface photovoltage techniques

Seminar

Tallinn Technical University, Estland, 03.10.2007

SE2.Contacts

Lux-Steiner, M. Ch.

CIS-Solarzellen

IHP-Symposium Fortschritte in der Photovoltaik, Institut f. Halbleiterphysik

Frankfurt/Oder, Germany, 18.04.2007

SE2.Others

Lauermann, I.

Photovoltaikmodule - Funktionsweise und Entwicklungstendenzen

2. Objektplanertag der Baukammer Potsdam

Potsdam, Haus der Wirtschaft, 25.09.2007

SE2.Semico

Fuertes Marrón, D.

On CuGaSe₂ and wide-gap chalcopyrites

Laboratory of Photovoltaic Materials, University of Nantes, France , 03.05.2007

Lux-Steiner, M. Ch.

Indium - Basiswerkstoff für Dünnschichtsolarzellen

Agricola-Kolloquium, TU Freiberg

Freiberg, Germany, 15.06.2007

Lux-Steiner, M. Ch.

Scientific challenges in thin-film photovoltaics

Universitätskolloquium

Universität Basel, Schweiz, 04.05.2007

Lux-Steiner, M. Ch.

Progress in inorganic thin film photovoltaics

Humboldt-Kolleg Izmir 2007, Erneuerbare Energien Symposium

Izmir, Turkey, 03.10.2007

Rusu, M.

Thin film solar cells ζ from devices with micro- to nano-scale thick absorbers

Institute Seminar. Lecture series

A.Mickiewicz University, Poznan, Poland, 12.06.2007

SE3 - Technology

SE3.Baseline

Schock, H.-W.

Growth and properties of chalcopyrite films for efficient thin film solar cells

Seminar at National Institut of Advanced Industrial Science and Technology AIST,

Tsukuba, Japan 20. Sep - 20. Sep 2007

SE3.Control

Abou-Ras, D.

Transmission Electron Microscopy at CIGS/Buffer interfaces / Electron Backscatter Diffraction (EBSD) and Energy-Dispersive X-Ray Spectrometry (EDX) in a Scanning Electron Microscope

Seminar at the Angstrom Solar Center, Uppsala University

Uppsala, Sweden, 10.09.2007

Abou-Ras, D.

Chalcopyrite-type thin film solar cells studied by electron microscopy and its related techniques

Seminar at the Laboratório Nacional de Luz Síncrotron (LNLS)

Campinas (SP), Brasilien, 09.10.2007

SE3.Others

Schorr, Susan

Structural investigations of novel chalcopyrite type related materials for thin film photovoltaics

Forschungsseminar des Fachbereiches Materialforschung & Physik

Universität Salzburg, Österreich, 21.03.2007

SE4 - Dynamics of interfacial reactions

SE4.Cells

Sagol, B.E.; Seidel, U.; Szabo, N.; Döscher, H.; Höhn, C.; Schwarzburg, K.; Hannappel, T.

Basic Concepts and Interfacial Aspects of High-Efficiency III-V Multijunction Solar Cells

invited seminar talk,

Ege University - Institute of Solar Energy, Izmir-Turkey, 26.12.2007

Sagol, B.E.; Seidel, U.; Szabo, N.; Döscher, H.; Höhn, C.; Schwarzburg, K.; Hannappel, T.

III-V Grubu Günes Pilleri (in turkish language Group III-V Solar Cells)

invited seminar talk,

The Chamber of Electrical Engineers, Adana-Turkey, 18.12.2007

Schwarzburg, K.

Introduction to 3rd generation PV

19th Workshop on Quantum Solar Energy Conversion

Bad Hofgastein, Österreich, 18.03.2007

Thomas Hannappel

Grenzflächenuntersuchungen für hocheffiziente Solarzellen

Vortrag

TU Berlin, 22.10.2007

SE5 - Solar energy

SE5.Energetics

Kunst, M.

(Opto)electronic properties of Silicon Films

Eingeladener Vortrag Universität Salerno (Italien)

Fisciano, 22.04.2007

Kunst, M.

The characterization of multicrystalline silicon for solar cells

Eingeladener Vortrag Universität Salerno (Italien)

Fisciano (SA) Italien, 17.04.2007

Seeger, S.; Harbauer, K.; Ellmer, K.

Ionen- Energie-Verteilungen beim reaktiven Magnetronspütern von W-, Cu und In- Targets in Ar/H₂S

XIV. Erfahrungsaustausch

Mühlleithen / Vogtland, 13.03.2007

Tributsch, H.

Solar Energy - everlasting environmentally friendly energy

University of New South Wales

Sydney, AUSTRALIA, 26.03.2007

Tributsch, H.

Solare Bionik Strategie: Globale Energiewirtschaft nach dem Vorbild der Natur

Sommer-Akademie

St. Johann, Italien, 31.08.2007

Tributsch, H.

A bionic strategy towards a solar energy economy

CSIRO-Energy

New Castle, New South Wales, AUSTRALIA, 01.03.2007

Tributsch, H.

Bionische Solarstrategie - Energiewirtschaft nach dem Vorbild Natur

Vortrag: Universität Göttingen

Göttingen 13. Jun - 13. Jun 2007

SE5.Interfaces

Herr Prof. Dr. H.-J. Lewerenz

Nanoemitter Devices for Photovoltaic and Photoelectrocatalytic Solar Energy Conversion

Seminar, Bath University

Bath, U.K., 03.12.2007

Lewerenz, H.-J.

Routes in Advanced Solar Energy Conversion

Seminar, Department of Materials Science and Engineering, North Carolina State University

Raleigh, N.C., USA, 26.06.2007

Lewerenz, H.-J.

Exploring Semiconductor-Protein-Metal Contacts: Energy and Charge Transfer Considerations

Workshop on Biomolecule-Semiconductor Interactions, School of Pharmacy and Biomedical Sciences,,
Portsmouth University,
Portsmouth, U.K. , 11.03.2007

Herr Prof. Dr. H.-J. Lewerenz

Protein-Semiconductor Junctions: Reflections on the STM Imaging Process

ISB Seminar of the School of Pharmacy and Biomedical Sciences, Portsmouth University,
Portsmouth,UK 13. Mar - 13. Mar 2007

Lewerenz, H.-J.

Overview on Solar Energy Research and Education

Seminar, Department of Materials Science and Engineering, North Carolina State University
Raleigh, N.C., USA, , 19.06.2007

Skorupska, K.

Self Organized Nanostructure Formation on Silicon Photoelectrodes: Photovoltaic and Biological Implications

Seminar, Self organization on silicon
Brandenburgische Technische Universität , 22.01.2007

Skorupska, K.; Lewerenz H.J.

Photoactive Silicon-Based Devices by Electrochemical Self-Organization

SE Materialien für zukünftige Silizium-Nano-Technologien
Brandenburgische Technische Universität , 04.06.2007

Skorupska, K.

Structural and Electronic Characterization of Electrochemically Induced Nanostructures on Silicon

Department of Physics and Astronomy
Georgia State University, Atlanta, USA 03. May - 03. May 2007

Skorupska, K.

Electrochemically Induced Silicon Nanostructures: Structural and Electronic Properties

Department Seminar, University of Warsaw, Department of Chemistry,
Warszawa.Poland 13. Jun - 13. Jun 2007

Skorupska, K.; Lewerenz, H.J.

Electrochemically Induced Self-Organized Nanostructure on Silicon Surface for Biomolecules Adsorption

Seminar
Duke University, Durham, NC, USA 27. Nov - 27. Nov 2007

Patents and Patent Application

Patents

Dep.	HGF-Programme	Inventor	Title	Date of filing	Date of grant
SE1	Energy	Böhme, C.; Lips, K.	Verfahren und Anordnung zur Messung von zeitaufgelösten spinabhängigen Rekombinationsprozessen DE: 10147460	30.12.99	30.12.99
SE2	Energy	Birkholz, M.	Thermoelektrisches Halbleiterbauelement DE: 10035840	30.12.99	30.12.99
SE2	Energy	Bär, M.; Fischer, C.-H.; Lux-Steiner, M.C.; Muffler, H.-J.; Müller, F.	Verfahren zur Herstellung dünner, schwer löslicher Beschichtungen DE: 1448808 ES: 1448808 FR: 1448808 GB: 1448808 GR: 1448808	30.12.99	30.12.99
SE2, SE4	Energy	Fischer, C.-H.; Könenkamp, R.; Lux- Steiner, M.C.; Möller, J.; Siebentritt, S.	Verfahren und Anordnung zur Herstellung dünner Metallchalkogenid-Schichten DE: 1064685 ES: 1064685 FR: 1064685 GB: 1064685 IT: 1064685 SE: 1064685	30.12.99	30.12.99
SE5	Energy	Bogdanoff, P.; Bron, M.; Dorbandt, I.; Fiechter, S.; Hilgendorff, M.; Schulenburg, H.; Tributsch, H.	Herstellungsverfahren für ein Alkanol-resistentes Katalysator- material für die elektrochemische, selektive Sauerstoffreduktion.. DE: 10035841	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 DE: 10132490	30.12.99	30.12.99
SE5	Energy	Tributsch, H.	Photovoltaiksystem für die direkte Wasserstoffherzeugung und -sammlung DE: 10332570	30.12.99	30.12.99

Dep.	HGF-Programme	Inventor	Title	Date of filing	Date of grant
SF1	Structure of matter	Clemens, D.; Mezei, F.; Mokrani, L.	Neutronenoptisches Bauelement für die Neutronenkleinwinkelstreu-Messtechnik CH: 1535288 DE: 1535288 FR: 1535288 GB: 1535288 US: US7214948	30.12.99	30.12.99
SF1	Structure of matter	Krist, T.	Neutronenpolarisator zur Erzeugung von polarisierten Neutronenstrahlen DE: 102005011364	30.12.99	30.12.99
SF3	Structure of matter	Blackler, M.; Caron, P.; Escale, A.M.; Lelait, L.; Malcom McColvin, G.; Wahi, R.P.	Superlegierung auf Nickelbasis mit sehr hoher Beständigkeit gegen Heisskorrosion für Einkristallturbinenschaufeln von industriellen DE: 1211335 FR: 1211335 GB: 1211335	30.12.99	30.12.99
SF3	Structure of matter	Blackler, M.; Caron, P.; Escale, A.M.; Lelait, L.; Malcom McColvin, G.; Wahi, R.P.	Monokristalline Superlegierung auf Ni-Basis DE: 1211336 FR: 1211336 GB: 1211336	30.12.99	30.12.99
SF3	Structure of matter	Banhart, J.; Garcia-Moreno, F.	Verfahren zur pulvermetallurgischen Herstellung von Metallschaumstoff und von Teilen aus Metallschaumstoff DE: 102005037305	30.12.99	30.12.99
SF3	Structure of matter	Bieder, H.; Hoell, A.; Mokrani, L.; Zizak, I.	Einrichtung zur Kleinwinkelstreuung zur Analyse der Nanostruktur an Proben mittels Röntgenstrahlung DE: 102006029449	30.12.99	30.12.99
SF3	Structure of matter	Babcsán, N.; Banhart, J.; Murty, B.S.; Vinod Kumar, G.S.	Verfahren zur Herstellung von Metallschäumen und Metallschaum DE: 102006031213	30.12.99	30.12.99
SF8	Structure of matter	Fink, D.; Hoppe, K.	Sensor mit einem Feld aus Nanoporen und Verfahren zur Herstellung DE: 102005043397	30.12.99	30.12.99
SF8	Structure of matter	Fink, D.	Elektronisches Nanobauelement mit einer Tunnelstruktur und Verfahren zur Herstellung DE: 102004058765	30.12.99	30.12.99
SF8	Structure of matter	Fink, D.; Fink, E.	Elektromechanisches Steuerelement mit einem elastisch verformbaren Polymerkörper und Bauelement damit DE: 102005001439	30.12.99	30.12.99

Dep.	HGF-Programme	Inventor	Title	Date of filing	Date of grant
SF8	Structure of matter	Fink, D.; Tabacniks, M..H.	Mikrokanalplatte mit Ionenspurkanälen, Verfahren zur Herstellung und Anwendung DE: 102005040297	30.12.99	30.12.99
SF8	Structure of matter	Fink, D.	Messverfahren zur in-situ-Kontrolle des chemischen Ätzzvorgangs von latentem Ionenspuren DE: 102005040296	30.12.99	30.12.99
SF8	Structure of matter	Fink, D.	Intelligente Filtervorrichtung mit einer Überwachungseinheit DE: 102006008324	30.12.99	30.12.99
SF8	Structure of matter	Fink, D.	Miniaturisierte Transportsysteme aus einem Formgedächtnis-Polymer und Verfahren zur Herstellung DE: 102006008315	30.12.99	30.12.99

Patent applications

Dep.	HGF-Programme	Inventor	Title	Date of filing
SE1	Energy	Gall, S.; Stangl, R.	Einseitig kontaktierte Solarzelle mit Durchkontaktierungen und Verfahren zur Herstellung WO: PCT/DE2007/001007	02.06.07
SE1	Energy	Berghold, J.; Berginski, M.; Gall, S.; Hüpkes, J.; Lee, K.; Muske, M.; Rech, B.	T-stabiles ZnO DE: 102007024986.3-33	28.05.07 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 WO: PCT/DE2007/002230	11.12.07
SE2	Energy	Lux-Steiner, M.C.; Rusu, M.	Organische Solarzelle DE: 102007009995.0-33	01.03.07 Prior application
SE2	Energy	Fuertes Marrón, D.; Guenther, E.; Lux-Steiner, M.C.; Parisi, J.; Weiler, R.; Zrenner, E.	Implantierbares System zur Anregung von Neuronen DE: 102007020305.7	19.04.07 Prior application
SE2	Energy	Dittrich, T.; Lux-Steiner, M.C.; Zabel, P.	Sensor für elektromagnetische Strahlung mit einer externen Spannungsquelle DE: 102007020983.7-33	29.04.07 Prior application
SE2	Energy	Belaidi, A.; Dittrich, T.; Lux-Steiner, M.C.	Verfahren zum nasschemischen Ätzen von TiO ₂ -Dünnschichten und TiO ₂ -Partikeln sowie Ätzmittel DE: 102007025136.1	30.05.07 Prior application
SE2	Energy	Aichele, C.; Chen, J.; Lux-Steiner, M.C.	Array aus vertikalen UV-Leuchtdioden und Verfahren zu seiner Herstellung DE: 102007031600.5-33	06.07.07 Prior application
SE2	Energy	Fostiropoulos, K.; Johnev, B.	Passivierungsschicht für eine transparente leitfähige Oxidschicht in einem Bauelement mit organischer aktiver Schicht DE: 102007037945.7-33	11.08.07 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 WO: PCT/DE2007/000031	10.01.07
SE3	Energy	Abou-Ras, D.; Hesse, R.; Schock, H.-W.; Unold, T.	Verfahren zur in-situ-Bestimmung der stofflichen Zusammensetzung von optisch dünnen Schichten, Anordnungen zur Durchführung und .. DE: 102007034289.8-52	20.07.07 Prior application
SE5	Energy	Junghänel, M.; Tributsch, H.	Photoelektrische Solarzelle mit einer elektrolytfreien Kontaktschicht und Verfahren zur Herstellung WO: PCT/DE2007/000496	15.03.07

Dep.	HGF-Programme	Inventor	Title	Date of filing
SE5	Energy	Ellmer, K.; Unold, T.	Reaktives Magnetron-Sputtern zur großflächigen Abscheidung von Chalkopyrit-Absorberschichten für Dünnschichtsolarzellen WO: PCT/DE2007/001998	07.11.07
SE5	Energy	Barkschat, C.; Bogdanoff, P.; Fiechter, S.; Herrmann, I.	Electrode Catalyst for Fuel Cells, a Method of Preparing an Electrode Catalyst for Fuel Cells, and a Polymer Electrolyte ... WO: PCT/JP2007/074369	12.12.07 Prior application
SE5	Energy	Barkschat, C.; Bogdanoff, P.; Fiechter, S.; Herrmann, I.	Method of Preparing an Electrode Catalyst for Fuel Cells, and a Polymer Electrolyte Fuel Cell WO: PCT/JP2007/074373	12.12.07 Prior application
SE5	Energy	Barkschat, C.; Bogdanoff, P.; Fiechter, S.; Herrmann, I.; Koslowski, U.	Method of Preparing an Electrode Catalyst for Fuel Cells, and a Polymer Electrolyte Fuel Cell WO: PCT/JP2007/074351	12.12.07 Prior application
SE5	Energy	Barkschat, C.; Bogdanoff, P.; Fiechter, S.; Herrmann, I.	Method of Preparing an Electrode Catalyst for Fuel Cells, and a Polymer Electrolyte Fuel Cell WO: PCT/JP2007/074368	12.12.07 Prior application
SE6	Energy	Andres, S.; Lehmann, C.; Pettenkofer, C.	Verfahren zur Herstellung eines eine mindestens ZnO enthaltende Zweifach-Pufferschicht aufweisenden Heterokontaktes und DE: 102007060236.9	14.12.07 Prior application
SF3	Structure of matter	Babcsán, N.; Banhart, J.; Murty, B.S.; Vinod Kumar, G.S.	Verfahren zur Herstellung von Metallschäumen und Metallschaum WO: PCT/DE2007/001140	27.06.07
SF3	Structure of matter	Banhart, J.; Brothers, A.	Verfahren zur Herstellung eines Metallmatrix-Nanoverbundwerkstoffes, Metallmatrix-Nanoverbundwerkstoff und seine Anwendung DE: 102007044565.4-24	07.09.07 Prior application

Academic Education

Lectures, Courses, ...

Dep.	Lecturer	Topic	Course	University	Hrs/week
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Summer Term 2007					
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 metallischen Leichtbauwerkstoffe (II)	lecture	TU-Berlin	2
SF3	Genzel, C.	Einsatz von röntgen- und neutronographischen Verfahren in der Werkstoffanalytik	lecture	TU-Berlin	2
SF3	Schumacher, G.	Werkstoffe für Hoch- und Ultrahochtemperaturanwendungen	lecture	TU-Berlin	2
SF6	Behne, D.; Kyriakopoulos, A.	Doktorandenseminar: Ausgewählte Gebiete der Spurenelementforschung	seminar	FU-Berlin	1
SF6	Kyriakopoulos, A.	Biochemie von Spurenelementen	lecture	FU-Berlin	1
SF6	Kyriakopoulos, A.	Biochemie von Spurenelementen	lab course	FU-Berlin	5
SF8	Mahnke, H.-E.; Heyn, M.	Kern- und Elementarteilchenphysik II (Ionenstrahlphysik)	lecture	FU-Berlin	3
SF8	Schiwietz, G.	Einführung in das Physikalische Grundpraktikum 3	lecture	TU-Berlin	2
SF8	Schiwietz, G.; Mahnke, H.-E.	Ionenstrahlphysik	lecture	TU-Berlin	2
SE1	Nickel, N.H.	Wasserstoff in Festkörpern	lecture	TU-Berlin	2
SE2	Dittrich, T.	Photovoltaics	lecture	Universidad Nacional Rio Cuarto, Argentina	2
SE2	Dittrich, T.; Hannappel, T.	Einführung und Grenzflächenaspekte der Photovoltaik	lecture	FU-Berlin	2
SE2	Dittrich, T.; Hannappel, T.	Übung zur Einführung und Grenzflächenaspekte der Photovoltaik	tutorial	FU-Berlin	2
SE2	Fostiropoulos, K.	Struktur ultra-dünner organischer Molekülfilme	lecture	Uni Potsdam	2
SE2	Lux-Steiner, M.C.	Physikalisches Praktikum	lab course	FU-Berlin	2
SE2	Sadewasser, S.	Übungen zu Physik II "Elektromagnetismus"	tutorial	FU-Berlin	2
SE3	Schock, H.-W.; Kötschau, I.; Weber, A.	Herstellung einer Siliziumsolarzelle	lab course	TU-Berlin	3
SE3	Schock, H.-W.	Bauelemente für die photovoltaische Energieumwandlung	lecture	TU-Berlin	3

Dep.	Lecturer	Topic	Course	University	Hrs/week
SE4	Hannappel, T.	Einführung und Grenzflächenaspekte der Photovoltaik	tutorial	FU-Berlin	2
SE4	Hannappel, T.	Einführung und Grenzflächenaspekte der Photovoltaik	lecture	FU-Berlin	2
SE5	Lewerenz, H.J.	Energieumwandelnde Halbleitergrenzflächen	seminar	TU-Berlin	2
SE5	Lewerenz, H.J.	Elektrochemische Nanotechnologie	lecture	TU-Berlin	2
SE5	Tributsch, H.	Physikalische Chemie II für Biochemiker	lecture	FU-Berlin	2
SE6	Pettenkofer, C.	Einführung in die Physik 2	lecture	TU- Cottbus	4
SE6	Pettenkofer, C.	Einführung in die Physik 2	tutorial	TU-Cottbus	4

Winter Term 2007/2008					
SF2	Siemensmeyer, K.	Neutronen als Sonde zur Untersuchung kondensierter Materie	lecture	TU-Berlin	4
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.	Technologie der metallischen Leichtbauwerkstoffe (I) - Modul "Prozesstechnik metallischer Werkstoffe III"	lecture	TU-Berlin	4
SF3	Banhart, J.; Garcia-Moreno, F.; Jiménez, C.	Metallschaumpraktikum	lab course	TU-Berlin	1
SF3	Gibmeier, J.	Werkstofftechnische Grundlagen für die Bauteildimensionierung	lecture	TU-Berlin	4
SF3	Manke, I.; Kardjilov, N.	Praktikum Tomographie und Radiographie	lab course	TU-Berlin	3
SF6	Behne, D.; Kyriakopoulos, A.	Doktorandenseminar: Ausgewählte Gebiete der Spurenelementforschung	seminar	FU-Berlin	1
SF6	Kyriakopoulos, A.	Biochemie von Spurenelementen	lab course	FU-Berlin	5
SF6	Kyriakopoulos, A.	Biochemie von Spurenelementen	lecture	FU-Berlin	1
SF8	Mahnke, H.-E.; Heyn, M.	Einführung in die Kern- und Teilchenphysik	lecture	FU-Berlin	4
SF8	Mahnke, H.-E.; Heyn, M.	Einführung in die Kern- und Teilchenphysik	lecture	FU-Berlin	4
SF8	Mahnke, H.-E.; Schiwietz, G.	Ionenstrahlphysik	seminar	FU-Berlin	2
SF8	Schiwietz, G.	Grundlagen zum Physikalischen Grundpraktikum II und III	lecture	TU-Berlin	2
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

Dep.	Lecturer	Topic	Course	University	Hrs/week
SE1	Gall, S.; Korte, L.; Becker, C.	Photovoltaik I	tutorial	TU-Berlin	2
SE1	Gall, S.	Photovoltaik I	lecture	TU-Berlin	2
SE1	Nickel, N.H.; Esser, N.	Physik für Chemiker	lecture	TU-Berlin	4
SE1	Rau, B.; Klaer (SE3), J.	Herstellung einer Silizium-Solarzelle	lab course	TU-Berlin	3
SE2	Fostiropoulos, K.	Übungsgruppe zur Physik für Chemiker	tutorial	Uni Potsdam	2
SE2	Sadewasser, S.	Fortgeschrittenen-Praktikum Teil B	lab course	FU-Berlin	2
SE2	Sadewasser, S.	Nanotecnología y microscopía de barrido	lecture	Universidad del Norte, Barranquilla, Colombia	1
SE3	Schock, H.-W.; 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	Lewerenz, H.J.	Energieumwandelnde Halbleitergrenzflächen	seminar	TU-Berlin	2
SE5	Lewerenz, H.J.; Skorupska, K.	Nanoscaled Dielectric Barriers	seminar	BTU Cottbus	1
SE5	Lewerenz, H.J.; Skorupska, K.	Photovoltaische Solarzellen	lecture	TU-Berlin	2
SE5	Munoz, A.	Solar Cells	lecture	BTU Cottbus	2
SE5	Skorupska, K.	Light-induced energy conversion processes and systems	lecture	Universität Warschau	1
SE5	Tributsch, H.	Physikalische Chemie II für Studierende der Biochemie	lecture	FU-Berlin	2
SE6	Pettenkofer, C.	Einführung in die Physik 1	tutorial	TU-Cottbus	4
SE6	Pettenkofer, C.	Einführung in die Physik 1	lecture	TU-Cottbus	4

Exams

Dep.	Author	Title	University	Date
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Ph. D.				
SF2	Notbohm, S.	Spin Dynamics of Quantum Spin-Ladders and Chains	St. Andrews University	09/07
SF3	Mechler, S.	Massivglasbildung und thermische Stabilität von Gläsern im System Zr-Ti-Ni-Cu-Be - Die Rolle der Ikosaedrischen Nahordnung	TU-Berlin	01/07
SF5	Gholami, A.	Actin-Based-Motility	LMU München	10/07
SF8	Imielski, P.	Untersuchungen von magnetischen und strukturellen Eigenschaften mittels lokalen Sonden	FU-Berlin	10/07
SE2	Lehmann, S.	Leerstellen-Verbindungen im System Cu-Ga-Se: Eine strukturelle Studie an Kompakt- und Schichtmaterial	FU-Berlin	03/07
SE4	Fox-Bork, T.	New Approaches to the III-V on Silicon Heteroepitaxy	HU-Berlin	04/07
SE4	Möller, K.	In situ Überwachung der MOCVD-Präparation von Gallium- und Indiumantimonid	Duisburg-Essen	05/07
SE4	Schimper, H.J.	MOCVD-Präparation von III-V-Materialien auf Gitterkonstanten von InP für Solarzellen	Universität Duisburg-Essen	07/07
SE4	Seidel, U.	Grenzflächenuntersuchungen am Tunnelkontakt einer MOCVD-präparierten Tandemsolarzelle	HU-Berlin	07/07
SE5	Junghänel, M.	Novel aqueous electrolyte films for hole conduction in dye sensitized solar cells and development of an electron transport model	FU-Berlin	11/07
SE5	Neumann, B.	Entwicklung und Untersuchung einer photoelektrochemischen Membran für eine direkte Wasserstoffgewinnung aus wässrigen Elektrolyten	FU-Berlin	11/07
SE5	Thomalla, M.	Entwicklung einer Nano-komposit Solarzelle mit WS ₂ -Absorber	FU-Berlin	05/07
SE6	Andres, S.	Elektronische Eigenschaften und Morphologie MOMBE gewachsener ZnO Schichten	HU-Berlin	12/07
SE6	Lehmann, C.	Elektronische Struktur dünner Halbleiterfilme (Chalkopyrite) als Absorbermaterialien für Dünnschicht solarzellen	TU-Cottbus	12/07

Diploma				
SF2	Veira, J.R.	Feld induzierte Übergänge in BaMnF ₄ und verwandten Materialien	TU-Berlin	01/07

Dep.	Author	Title	University	Date
SF2	Wand, T.	Messung der Spezifischen Wärme an Ag-basierten super-ionischen Gläsern bei tiefen Temperaturen	TU-Berlin	07/07
SF2	Wulf, E.	Charakterisierung der magnetischen Eigenschaften von REBx-Verbindungen	TU-Berlin	11/07
SF3	Haas, S.	Nanostrukturen und Fluktuationen der chemischen Zusammensetzung in Katalysatormaterialien für Brennstoffzellen	TU-Berlin	03/07
SF3	Rosumek, M.R.	Untersuchung des Schäumverhaltens von Zinkschäumen	TU-Berlin	04/07
SF3	Wieler, I.	Grundlegende Untersuchungen des Aushärtungsverhaltens von AlMgSi-Legierungen	TU-Berlin	08/07
SE1	Geipel, T.	2D-Simulation von neuartigen Kontaktstrukturen zur Rückseitenkontaktierung von waferbasierten Siliziumsolarzellen	TU Dresden, FB Informationstechnik	04/07
SE1	Gluba, M.-A.	Elektronenspinresonanzuntersuchungen an Zinkoxyd	TU-Berlin	03/07
SE2	Cinque, S.	Entwicklung von Spray-ILGAR-Pufferschichten	FHTW	09/07
SE2	Kreuzer, M.	Wechselwirkung zwischen Glutamat und Polypyrrol	TU-Berlin	12/07
SE2	Köhler, T.	Entwicklung einer technisch relevanten Methode zur nasschemischen Abscheidung von Halbleitersolarzellen	FHTW	03/07
SE2	Lewer, P.	Invertierte organische Solarzellen	FU-Berlin	09/07
SE2	Tress, W.	Software-Entwicklung zur Modellierung von Schichtsystemen	Universität Ulm	10/07
SE3	Schubert, B.-A.	Thin-Film Solar Cells: Physics and Economics - An economic approach to evaluate the indium lifetime and its impact on indium based solar cells	TU-Berlin	10/07
SE3	Steinkopf, L.	Auswertung von Freilandtests an Dünnschichtphotovoltaikmodulen	FHTW-Berlin	02/07
SE3	Wendt, M.	Ortsaufgelöste Charakterisierung von Dünnschicht solarzellen	HTWK-Leipzig	06/07
SE5	Resch, M.	Herstellung sowie elektrische und optische Charakterisierung von reaktiv gesputterten transparenten Fensterschichten mit niedriger Elektronenaffinität für Dünnschicht solarzellen	TFHW Berlin	11/07
SE6	Güttler, C.	Vakuumtechnischer Aufbau einer UHV Spiegelkammer	TFH-Berlin	10/07
WT	Backhaus, P.	Konzeption und Erstellung der Steuerung einer 3He-Polarisations- und Abfüllstation	Berufsakademie in der FHW Berlin	01/07
WT	Dubiel, M.	3D Visualisierung von simulierten 2D Solarzellenkenngrößen	Berufsakademie in der FHW Berlin	08/07

Dep.	Author	Title	University	Date
WT	Ehmig, D.	Programmierung einer Mess- und Auswerterroutine für einen Spektralmessplatz	Berufsakademie in der FHW Berlin	08/07
WT	Fedorenko, D.	Individualisierte Parametersätze - Erweiterung einer Datenbank zur Geräteverwaltung	Berufsakademie in der FHW Berlin	08/07
WT	Gülow, R.	Entwicklung einer Steuerungs- und Auswerterroutine zum Betreiben eines Messstandes für mechanische Eigenspannungsanalysen unter Verwendung von LabVIEW	Berufsakademie in der FHW Berlin	08/07
WT	Zalden, M.	Aufbau einer Datenbank zur automatischen Messdatenerfassung und -verwaltung	Berufsakademie in der FHW Berlin	08/07

Master Thesis				
SE1	Bivour, M.	Realisierung eines neuartigen Kontaktsystems für rückseitig kontaktierte amorph/kristalline Silizium Heterosolarzellen	FHTW Berlin	11/07

Studienarbeit				
SE5	Jäger, U.	Einführung und Charakterisierung von sauerstoffhaltigen Oberflächengruppen in einen kohlenstoffbasierten Fe-Co-S Katalysator	FU-Berlin	03/07

Summer students etc.

The 20th HMI Summer Programme for undergraduate students took place from August 6th to September 30th, 2007. 28 students, including 18 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, 8 student trainees and 35 high school trainees visited the HMI for individual training projects.

Faculty appointments and Awards

Faculty appointments

Dep.	Name	Position	Date
SF3	Genzel, C.	APL-position TU-Berlin	accepted 05/07
SE3	Schorr, S.	W2-position FU-Berlin	accepted 01/08

Awards

Dep.	Name	Award
SF2	Prokhnenko, O.	BESSY Poster Preis, BESSY User Meeting 2007, 07.12.2007
SF7	von Oertzen, W.	Gentner-Kastler-Preis, Deutsche Physikalische Gesellschaft + Société Française de Physique, 09.07.2007
SE1	Behrends, J.	Auszeichnung für das beste Examen in Physik, Universität Oldenburg, 08.02.2007
SE1	Fuhs, W.	MOTT Lectureship, ICANS 22, Colorado, USA, 20.08.2007
SE2	Eisenbarth, T.	Einstein Junior Award, Solar World AG, 03.09.2007
SE2	Leendertz, C.	Einstein Junior Award, Solar World AG, 03.09.2007
SE2	Pistor, P.	Young Researchers Award, 17th Asian PVSEC, Fukouka, Japan, 07.12.2007
SE2	Vogel, M.	HMI Kommunikationspreis, Hahn-Meitner-Institut, 02.07.2007
SE2	Wimmer, M.	Einstein Junior Award, Solar World AG, 03.09.2007
SE5	Lewerenz, H.J.	Hothersall Memorial Medal, Inst. of Metal Finishing, Birmingham, UK, 01.11.2007

Participation in external scientific bodies and committees

Dep.	Name	Committee / Board / Scientific body
SF1	Habicht, K.	ILL College 4 Subcommittee
SF1	Mezei, F.	International Advisory Committee of Conference on Polarized Neutrons in Condensed Matter Investigations
SF1	Mezei, F.	Journal of Neutron Research
SF1	Mezei, F.	Scientific Council Laboratoire Leon Brillouin (LLB), Saclay, France
SF1	Mezei, F.	International Advisory Council of the Budapest Neutron Center (BNC), Budapest, Hungary
SF1	Mezei, F.	European Neutron Scattering Association (ENSA), Switzerland
SF1	Pappas, C.	PNCMI 2008 Program Committee
SF1	Pappas, C.	NIST Nutzer Ausschuss
SF1	Schneider, R.	VDI Beirat FRM II
SF1	Schneider, R.	Nutzer Ausschuss ANSTO
SF2	Feyerherm, R.	BESSY Nutzerausschuss
SF2	Holub-Krappe, E.	International Executive XAFS Committee of the Union of Crystallography
SF2	Holub-Krappe, E.	Executive Committee of the International X-Ray Society
SF2	Tennant, A.	Scientific Advisory Committee for the advanced magnets project at ISIS
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
SF3	Abromeit, C.	Scientific committee for E-MRS-Fall Meeting 2006
SF3	Abromeit, C.	Symposium Organizer for MRS Fall Meeting 2006, Boston
SF3	Banhart, J.	Organizing Committee of MetFoam 2007
SF3	Banhart, J.	Programme Committee of the International Conference on Aluminium Alloys 11
SF3	Banhart, J.	Arbeitsgemeinschaft Metall- und Materialphysik der DPG
SF3	Banhart, J.	Assigned Scientific Committee of lutam Symposium
SF3	Banhart, J.	DGM-Arbeitskreis Tomographie
SF3	Garcia-Moreno, F.	DGM-Fachausschuss "Strahllinien für die Werkstoffcharakterisierung"
SF3	Garcia-Moreno, F.	AK "Zellulare Metalle" des Fachausschusses "Metallische Verbundwerkstoffe und zellulare Metalle" der DGM
SF3	Genzel, C.	International Scientific Committee of the Size-Strain V Conference
SF3	Kardjilov, N.	Member of Board of Directors of International Society for Neutron Radiology
SF3	Manke, I.	DGZfP-Fachausschuss Durchstrahlungsprüfung UA Bildverarbeitung in der Durchstrahlungsprüfung UA Computertomographie
SF3	Manke, I.	DGM-Fachausschuss "Strahllinien für die Werkstoffcharakterisierung"
SF3	Wanderka, N.	National Committee of THERMEC 2009
SF3	Wanderka, N.	National Committee of RQ13, 13th International Conference on Rapid Quenched & Metastable Materials
SF3	Wanderka, N.	Editor Ultramicroscopy Proceedings der Konferenz IFES 2006
SF3	Wanderka, N.	International Steering Committee of Field Emission Society
SF3	Wiedenmann, A.	Advisory committee Instrumentation KAERI

Dep.	Name	Committee / Board / Scientific body
SF3	Wiedenmann, A.	Organisation committee for Int. Conf. on polarised Neutrons
SF3	Wiedenmann, A.	FZ Jülich Gutachter für Instrument-Umzug
SF3	Wiedenmann, A.	Scientific council Institut-Laue-Langevin Subcommittee 1, Grenoble, France
SF3	Wiedenmann, A.	FRMII Instrument advisory committee
SF3	Wiedenmann, A.	Instrumentation advisory board ANSTO/Australia
SF5	Falcke, M.	SFB 555 "Komplexe nichtlineare Prozesse"
SF6	Bordallo, H.	Spallation Neutron Source (SNS), Gutachter- und Beratungsgremium
SF6	Bordallo, H.	National Institut of Standards, Gutachter- und Beratungsgremium
SF6	Bordallo, H.	Australien Nuclear Science and Technology Organisation (ANSTO), Gutachter- und Beratungsgremium
SF6	Bordallo, H.	Instrument Development Team of the Cold Neutron Chopper Spectrometer at the Spallation Neutron Source, USA
SF6	Bordallo, H.	Backscattering Spectrometer at the Spallation Neutron Source, USA Gutachter- und Beratungsgremium
SF6	Kyriakopoulos, A.	4th international Conference on Trace Element Speciation in Biomedical, Nutritional and Environmental Sciences Wissenschaftl. Komitee zur Vorbereitung von Konferenzen
SF8	Mahnke, H.-E.	Komitee Forschung mit Nuklearen Sonden und Ionenstrahlen (KFSI)
SF8	Schiwietz, G.	Editorial Board Journal Nuclear Instruments and Methods, Section B, Beam Interactions with Materials and Atoms
SF8	Schiwietz, G.	Editor Konferenzband zur ICACS 22 innerhalb von Nuclear Instruments and Methods, Section B: NIM-B (2007)
SF8	Schiwietz, G.	International Committee" der Konferenzserie "International Conference on Atomic Collisions in Solids " (ICACS)
SF8	Schiwietz, G.	"International Scientific Committee" der Konferenzserie "Swift Heavy Ions in Matter " (SHIM)
SF8	Schiwietz, G.	Mitglied des Editorial Boards des Journals Nuclear Instruments and Methods, Section B, Beam Interactions with Materials and Atoms
SF8	Sielemann, R.	Mitglied des Editorial Boards der Zeitschrift "Hyperfine Interactions"
SFN1	Lake, B.	NIST reactor panel
SE1	Friedrich, F.	Laser Processing for Silicon Devices; veranstaltet von Universite de Rennes, F und HMI Organizing committee
SE1	Lips, K.	ICANS - Intern. Conf. on amorphon and nanocrystalline semiconductors Gutachter- und Beratungsgremium
SE1	Lips, K.	INTAS, Gutachter- und Beratungsgremium
SE1	Nickel, N.H.	Alexander-von-Humboldt-Stiftung, Gutachter- und Beratungsgremium
SE1	Nickel, N.H.	TU Berlin, Gutachter- und Beratungsgremium
SE1	Nickel, N.H.	Laser Processing for Silicon Devices; veranstaltet von Universite de Rennes, F und HMI Organizing committee
SE1	Rech, B.	FVS-Jahrestagung, Leibnitz-Universität Hannover
SE1	Rech, B.	Tagungsbeirat des OTTI-Anwenderforums
SE1	Rech, B.	Prüfungskomitee Uni Leuven
SE1	Rech, B.	Europäische Photovoltaikkonferenz
SE1	Rech, B.	EuroNorm GmbH (Projekträger des BMWi)

Dep.	Name	Committee / Board / Scientific body
SE1	Rudigier, E.	Girls'Day - Wettbewerb "Vision 2027 - Erfinde deine Zukunft"
SE1	Weizman, M.	Laser Processing for Silicon Devices; veranstaltet von Universite de Rennes, F und HMI Organizing committee
SE2	Lux-Steiner, M.C.	1. Vorsitzende des Vereins Arbeitsgemeinschaft Solare Materialien (ASM)
SE2	Lux-Steiner, M.C.	Wissenschaftlicher Beirat des Forschungszentrums Rossendorf e.V. (FZR)
SE2	Lux-Steiner, M.C.	Committee of the SPIE Meeting
SE2	Lux-Steiner, M.C.	Eidgenössische Energieforschungskommission CORE in der Schweiz
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.	Hochschulrat der Universität Oldenburg
SE2	Lux-Steiner, M.C.	Scientific Committee and Executive Committee, 23rd European PV Solar Energy Conference
SE2	Lux-Steiner, M.C.	Organisationskomitee des Symposiums "Nanotechnologie für eine nachhaltige Energieversorgung"
SE2	Lux-Steiner, M.C.	Jury EXIST-Forschungstransfer
SE2	Lux-Steiner, M.C.	Project Coordinator ATHLET
SE2	Lux-Steiner, M.C.	Scientific Committee and Executive Committee, 22nd European PV Solar Energy Conference 2007
SE2	Lux-Steiner, M.C.	Associate Editor for the journal "Advanced Science Letters"
SE2	Schedel-Niedrig, T.	Eurec Agency
SE3	Schock, H.	ICTMC, Member of International Advisory Committee, Chairman ICTMC 16, 2008
SE3	Schock, H.-W.	WPSEC, Member of Scientific Committee
SE3	Schock, H.-W.	Progress in Photovoltaics, Member of the Editorial Board
SE3	Schock, H.-W.	Programmbeirat Energie FZ Jülich
SE3	Schock, H.-W.	EU-PV SEC European Photovoltaic Solar Energy Conference, Member of Scientific Committee
SE3	Schock, H.-W.	HGF Programm Erneuerbare Energien, Topic Sprecher PV
SE3	Schock, H.-W.	EMRS, Session organizer
WGF	Steiner, M.	Innovationsrat des Ministeriums für Wirtschaft und Arbeit des Landes Sachsen-Anhalt
WGF	Steiner, M.	DAAD
WGF	Steiner, M.	Commission on Neutron Scattering of the International Union of Crystallography, USA
WGF	Steiner, M.	Steering Committee, Institut Laue-Langevin (ILL), Grenoble, France
WGF	Steiner, M.	Aufsichtsrat, BESSY GmbH Berlin
WGF	Steiner, M.	NSL-CARR (Neutron Scattering Laboratory-China Advanced Research Reactor) on Neutron Science & Technology and Management
WGF	Steiner, M.	Forschungsverbund Sonnenergie
WT	Nielsen, U.	Ständige Kommission des Verwaltungsrates des Konrad-Zuse-Zentrums für Informationstechnik Berlin

Dep.	Name	Committee / Board / Scientific body
WT	Nielsen, U.	Innovationsförderprogramm der Investitionsbank Berlin
WT	Nielsen, U.	Mitgliederversammlung des DFN Vereins
WTE	Sauer, O.-P.	Prüfungsausschuss der Fachrichtung Informatik der Berufsakademie Berlin
WTE	Wulf, F.	Conference Committee IEEE NSS/MIC 2008, Dresden, Exhibits Chair
WTE	Wulf, F.	Committee for European Studies on Norms for Electronics (ESONE), XT/TCC
WTE	Wulf, F.	Studiengruppe für Elektronische Instrumentierung (SEI)

Organization of Scientific Conferences and Meetings

Dep.	Title	Type	Date
SF2	6th Workshop on Orbital Physics and Novel Phenomena in Transition Metal Oxides Dr. Dimitri Argyriou	Workshop	10.10.07 - 11.10.07
SF3	"Wide-Angle Laser - Assisted Tomographic Atom Probe Dr. Nelia Wanderka	Workshop	10.05.07
SF3	AK "Zellulare Metalle" Prof. Dr. John Banhart, Dipl.-Ing. Catalina Jiménez, Dipl.-Ing. Manas Mukherjee, Dr. Francisco Garcia-Moreno	Workshop	21.03.07
SF3	Meeting of the European Neutron Radiography Association (ENRA) Dr. Nikolay Kardjilov	Workshop	23.03.07 - 24.03.07
SF3	Treffen des DGM Fachausschusses "Strahllinien für die Werkstoffcharakterisierung" Dr. Ingo Manke	Fachausschuss	04.05.07
SF3	Workshop on Tomography in Materials Science using TEM and FIB Dr. Markus Wollgarten, Dr. Nelia Wanderka	Workshop	10.10.07 - 12.10.07
SF6	European Conference on Metallobiomics Dr. A. Kyriakopoulos, Dr. D. Alber, A. Graebert	Conference	29.11.07 - 30.11.07
SF8	Analysis in Art with Radiation AARD 2007 Prof. Dr. H.-E. Mahnke	Sommerschule	03.09.07 - 11.09.07
SE1	Tag der Wissenschaft und Wirtschaft Thomas Weber "Solarenergienutzung"	Nachwuchsförderung	11.10.07
SE2	Cost-effective Photovoltaic Research Dr. Sascha Sadewasser, Dr. Thomas Dittrich	Sommerschule	19.08.07 - 01.09.07
SE2	Nanotechnology für eine nachhaltige Energieversorgung Prof. Dr. Martha Ch. Lux-Steiner	Workshop	29.11.07 - 30.11.07
SE3	HMI Workshop SF-SE Structural investigations of adamantane photovoltaic materials, Dr. Susan Schorr	Workshop	20.02.07 - 21.02.07
SE4	European Society for Quantum Solar Energy Conversion 2007 Dr. Thomas Hannappel	Workshop	18.03.07 - 24.03.07
SE4	Symposium "Nanotechnologie für eine nachhaltige Energieversorgung" Dr. Thomas Hannappel	Workshop	29.11.07 - 30.11.07
SE5	Sommerakademie 2007, St. Johann Prof. Dr. H. Tributsch	Sommerakademie: AG: Energieforschung und Bionik	27.08.07 - 07.09.07
WTE	Studiengruppe für Elektronische Instrumentierung, Frühjahrstagung 2007 Dr. Friedrich Wulf	Conference	26.03.07 - 28.03.07
WTE	Studiengruppe für Elektronische Instrumentierung, Herbsttagung 2007 Dr. Friedrich Wulf	Conference	24.09.07 - 26.09.0

