

Supplement
to the
Annual Report 2005

Berlin 2005

Supplement, Annual Report 2005

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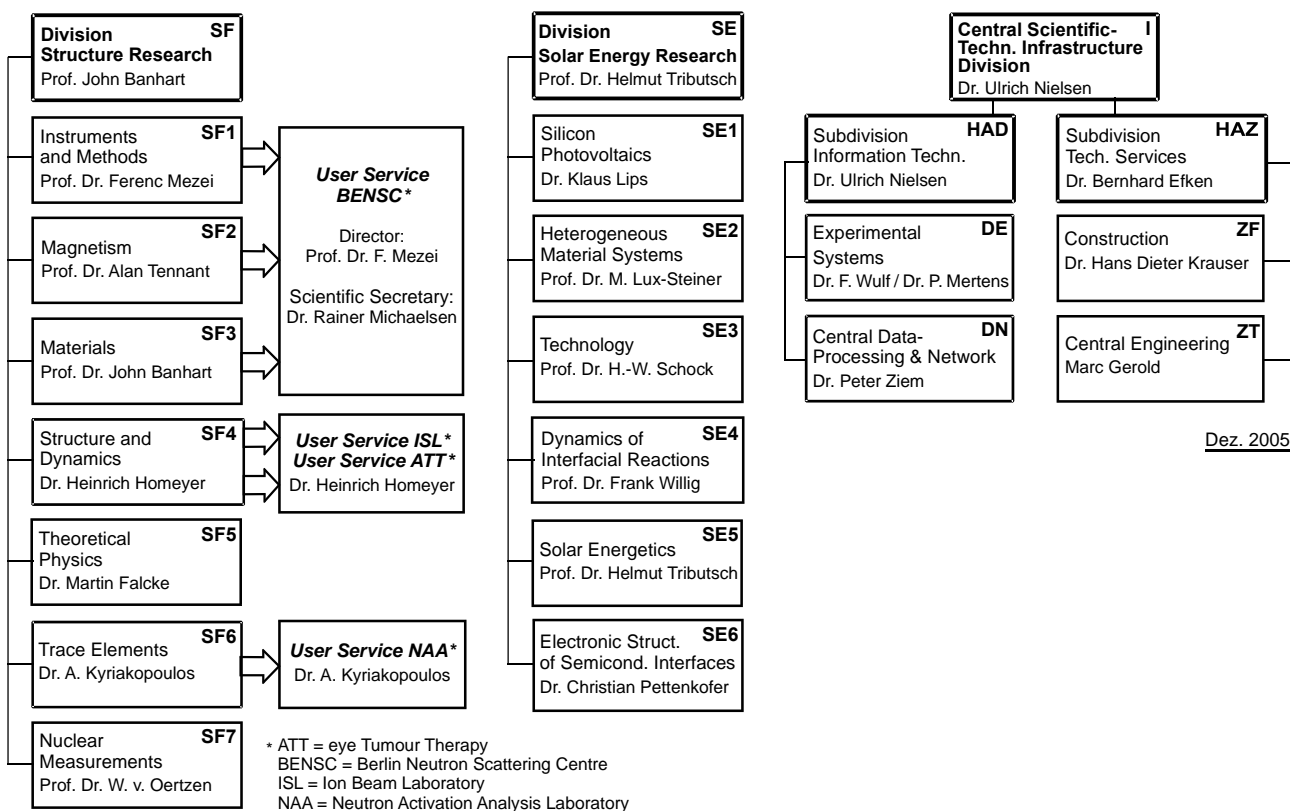
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Preface

This supplement to the Annual Report 2005 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 valid for 2005 reads as follows:



The supplement was generated mostly from an internal data base installed over the last two years. We would like to thank Marion Schröder and Volker Denzer (Central Data-Processing & Network) for a lot of technical support.

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

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

Publications

SF - Structural Research

SF - BENSC

BENSC.User

Abbas, S.; Wagh, A.G.

Neutron Deflection by a Perfect Crystal Prism

Sol. St. Phys. (India)

50 (2005) 317 - 318

Auffermann, G.; Bronger, W.; Müller, P.; Roth, G.; Schilder, H.; Sommer, T.

Cs₃OsH₉; Synthese, Struktur und magnetische Eigenschaften

Zeitschrift für Anorganische Allgemeine Chemie

631 (2005) 1060 – 1064

Carelli C. ; Jones R.A.L. ; Young R.N. ; Cubitt R. ; Krastev R. ; Gutberlet T. ; Dalgliesh R. ; Schmid F. ; Sferazza M.

The effects of long-ranged and short-ranged forces in confined near-critical polymeric liquids

Europhysics Letters

71 (2005) 763 - 769

Cousin, F.; Gummel, J.; Ung, D.; Boué, F.

Polyelectrolyte-Protein Complexes; Structure and Conformation of Each Specie Revealed by SANS

Langmuir

21 (2005) 9675 - 9688

Gäbler, F.; Kirchner, M.; Schnelle, W.; Schmitt, M.; Rosner, H.; Niewa, R.

(Sr₃N_x)E and (Ba₃N_x)E (E = Sn, Pb): Preparation, Crystal Structures, Physical Properties and Electronic Structures

Zeitschrift für Anorganische Allgemeine Chemie

631 (2005) 397 - 402

Gilles, R.

Neutrons scattering , a powerful tool in material science exemplary on superalloys

Zeitschrift für Metallkunde

96 (2005) 325 - 334

Gjoka, M.; Mergia, K.; Niarchos, D.

Neutron diffraction study of the rare earth-Fe-Co-V intermetallic compounds

Proceedings of the XXI Greek Conference on Solid State Physics and Material Science

(2005) 100

Kirchner, M.; Schnelle, W.; Wagner, F.R.; Kniep, R.; Niewa, R.

(A₁₉N₇)[In₄]₂ (A = Ca, Sr) and (Ca₄N)[In₂]: Synthesis, Crystal Structures, Physical Properties and Chemical Bonding

Zeitschrift für Anorganische Allgemeine Chemie

631 (2005) 1477 - 1486

Rocha, S; Krastev, R.; Thünemann, A.F.; Carmo Pereira, M.; Möhwald, H.; Brezesinski, G.

Adsorption of Amyloid b-Peptide at Polymer Surfaces: A Neutron Reflectivity Study

ChemPhysChem

6 (2005) 2527 - 2534

Romer R.L. ; Heinrich W. ; Schröder-Smeibidl B. ; Meixner A. ; Fischer C.-O. ; Schulz C.

Elemental dispersion and stable isotope fractionation during reactive fluid-flow and fluid immiscibility in the Bufa del Diente aureole, NE-Mexico: evidence from radiographies and Li, B, Sr, Nd and Pb isotope systematics

Contributions to Mineralogy and Petrology

149 (2005) 400 – 429

Smarsly, B.; Thommes, M.; Ravikovitch, P.I.; Neimark, A.V.

Characterization of Worm-Like Micro- and Mesoporous Silicas by Small-Angle Scattering and High-Resolution Adsorption Porosimetry

Adsorption

11 (2005) 653 - 655

Ulbricht, A.; Böhmert, J.; Uhlemann, M.; Müller, G.

Small-angle neutron scattering study on the effect of hydrogen in irradiated reactor pressure vessel steels

Journal of Nuclear Materials

336 (2005) 90 - 96

SF1.BENSC

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

Neutron reflectivity studies of critical adsorption: behaviour of the surface scaling function

Physical Review E

72 (2005) 041606/1 - 7

Delajon C. ; Gutberlet T. ; Steitz R. ; Möhwald H. ; Krastev R.

Formation of polyelectrolyte multilayer architectures with embedded DMPC studied in situ by neutron reflectometry

Langmuir

21 (2005) 8509 - 8514

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

Approaching the precipitation temperature of the deposition solution and the effects on the internal order of polyelectrolyte multilayers

Macromolecules

38 (2005) 5228 - 5235

Hagiwara M. ; Regnault L.P. ; Zheludev A. ; Stunault A. ; Metoki N. ; Suzuki T. ; Suga S. ; Kakurai K. ; Koike Y. ; Vorderwisch P. ; Chung, J.-H.

Spin excitations in an anisotropic bond-alternating quantum S=1 chain in a magnetic field: contrast to Haldane spin chains

Physical Review Letters

94 (2005) 177202/1 - 4

Hoinkis E. ; Röhl-Kuhn B.

Application of percolation theory to the drainage of liquid nitrogen from mesoporous silica xerogel Gelsil 50

Langmuir

21 (2005) 7366 - 7372

Jackler G. ; Czeslik C. ; Steitz R. ; Royer C.A.

Spatial distribution of protein molecules adsorbed at a polyelectrolyte multilayer

Physical Review E

71 (2005) 041912/1 - 7

Jauch W. ; Reehuis M.

Electron-density distribution in cubic SrTiO₃: a comparative gamma-ray diffraction study

Acta Crystallographica A

61 (2005) 411 - 417

Khaykovich B. ; Wakimoto S. ; Birgeneau R.J. ; Kastner M.A. ; Lee Y.S. ; Smeibidl P. ; Vorderwisch P. ; Yamada K.

Field-induced transition between magnetically disordered and ordered phases in underdoped $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$

Physical Review B
71 (2005) 220508/1 - 4

Kiselev M.A. ; Gutberlet T. ; Lesieur P. ; Hauss T. ; Ollivon M. ; Neubert R.H.H.

Properties of ternary phospholipid/dimethyl sulfoxide/water systems at low temperatures

Chemistry and Physics of Lipids
133 (2005) 181 - 193

Krist Th. ; Peters J. ; Shimizu H.M. ; Suzuki J. ; Oku T.

Transmission bender for polarizing neutrons

Physica B
356 (2005) 197 - 200

Lake B. ; Lefmann K. ; Christensen N.B. ; Aeppli G. ; McMorro D.F. ; Ronnow H.M. ; Vorderwisch P. ; Smeibidl P. ; Mangkorntong N. ; Sasagawa T. ; Nohara M. ; Takagi H.

Three-dimensionality of field-induced magnetism in a high-temperature superconductor

Nature Materials
4 (2005) 658 - 662

Mezei F.

History of neutrons and neutron scattering

In: Encyclopedia of condensed matter physics, eds. Bassani F.
Elsevier, Amsterdam, 2005, 76 - 83

Pappas C. ; Mezei F. ; Triolo A. ; Zorn R.

Going to the limits of the NSE

Physica B
356 (2005) 206 - 212

Peters J.

Neutron transmission probability through a revolving slit for a continuous source and a divergent neutron beam

Nuclear Instruments and Methods in Physics Research A
540 (2005) 419 - 429

Popova E. ; Loosvelt H. ; Gierlings M. ; Leunissen L.H.A. ; Jonckheere R. ; Van Haesendonck C. ; Temst K.

Magnetization reversal in exchange biased Co/CoO patterns

European Physical Journal B
44 (2005) 491 - 500

Rocha S. ; Krastev R. ; Thünemann A.F. ; Pereira M.C. ; Möhwald H. ; Brezesinski G.

Adsorption of amyloid beta-peptide at polymer surfaces: a neutron reflectivity study

ChemPhysChem
6 (2005) 2527 - 2534

Sobolev O. ; Vorderwisch P. ; Desmedt A.

Free NH_3 quantum rotations in Hofman clathrates: structure factors and line widths studied by inelastic neutron scattering

Chemical Physics
308 (2005) 147 - 157

Steitz R. ; Schemmel S. ; Shi H. ; Findenegg G.H.

Boundary layers of aqueous surfactant and block copolymer solutions against hydrophobic and hydrophilic solid surfaces

Journal of Physics: Condensed Matter
17 (2005) S665 - S683

Stock C. ; Wakimoto S. ; Birgeneau R.J. ; Danilkin S. ; Klenke J. ; Smeibidl P. ; Vorderwisch P.

Enhancement of magnetic order in the incommensurate phase of Mg-doped CuGeO₃

Journal of the Physical Society of Japan

74 (2) (2005) 746 - 752

Strobl M. ; Treimer W. ; Kardjilov N. ; Hilger A.

Application of refraction contrast tomography

Nuclear Instruments and Methods in Physics Research A

542 (2005) 383 - 386

Toca-Herrera J. L. ; Krastev R. ; Bosio V. ; Küpcü S. ; Pum D. ; Fery A. ; Sara M. ; Sleytr U.B.

Recrystallization of bacterial S-layers on flat polyelectrolyte surfaces and hollow polyelectrolyte capsules

Small

1 (2005) 339 - 348

Treimer W. ; Hilger A. ; Kardjilov N. ; Strobl M.

Review about old and new imaging signals for neutron computerized tomography

Nuclear Instruments and Methods in Physics Research A

542 (2005) 367 - 375

Treimer W. ; Kardjilov N. ; Feye-Treimer U. ; Hilger A. ; Manke I. ; Strobl M.

Absorption- and phase-based imaging signals for neutron tomography

Advances in Solid State Physics

45 (2005) 407 - 420

Treimer W. ; Strobl M. ; Hilger A. ; Peschke H.J.

Neutron tomography using small angle scattering data

IEEE Transactions on Nuclear Science

52 (2005) 386 - 388

Wagh A.G. ; Rackhecha V.C. ; Strobl M. ; Treimer W.

SUSANS with polarized neutrons

Journal of Research of the National Institute of Standards and Technology

110 (2005) 231 - 235

Wilmer D. ; Feldmann H. ; Lechner R.E. ; Combet J.

Sodium ion conduction in plastic phases: Dynamic coupling of cations and anions in the picosecond range

Journal of Materials Research

20 (2005) 1973 - 1978

SF2.BENSC

Argyriou D.N. ; Radaelli P.G. ; Milne C.J. ; Aliouane N. ; Chapon L.C. ; Chemseddine A. ; Veira J. ; Cox S. ; Mathur N.D. ; Midgley P.A.

Crystal structure of the superconducting layered cobaltate Na_xCoO_{2,y}D₂O

Journal of Physics: Condensed Matter

17 (2005) 3293 - 3304

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

Magnetic ordering in HoFe_{0.33}Ge₂

Journal of Magnetism and Magnetic Materials

285 (2005) 188 - 192

Chemnitzer R. ; Auffermann G. ; Többens D.M. ; Kniep R.

(Sr₂N)H: Untersuchungen zur Redox-Intercalation von Wasserstoff in Sr₂N

Zeitschrift für Anorganische und Allgemeine Chemie

631 (2005) 1813 - 1817

Christianson A.D. ; Llobet A. ; Bao W. ; Gardner J.S. ; Swainson I.P. ; Lynn J.W. ; Mignot J.-M. ; Prokes K. ; Pagliuso P.G. ; Moreno N.O. ; Sarrao J.L. ; Thompson J.D. ; Lacerda A.H.

Novel coexistence of superconductivity with two distinct magnetic orders

Physical Review Letters
95 (2005) 217002/1 - 4

Faulhaber E. ; Stockert O. ; Jeevan H.S. ; Prokes K. ; Deppe M. ; Geibel C. ; Steglich F. ; Loewenhaupt M.

Magnetic field dependence of the magnetic order in A-type CeCu₂Si₂

Physica B
359-361 (2005) 357 - 359

Gil A. ; Penc B. ; Hernandez-Velasco J. ; Wawrzynska E. ; Szytula A.

Low temperature neutron diffraction data for CeCo_{0.86}Ge₂

Journal of Alloys and Compounds
387 (2005) L8 - L10

Hutaru V. ; Rupp A.

Research on ³He spin filter cells made of quartz glass

Physica B
356 (2005) 91 - 95

Kaiser-Bischoff I. ; Boysen H. ; Frey F. ; Hoffmann J.-U. ; Hohlwein D. ; Lerch M.

The defect structure of Y- and N-doped zirconia

Journal of Applied Crystallography
38 (2005) 139 - 146

Kamarad J. ; Prokhnenko O. ; Prokes K. ; Arnold Z.

Magnetization and neutron diffraction studies of Lu₂Fe₁₇ under high pressure

Journal of Physics: Condensed Matter
17 (2005) S3069 - S3075

Kang H.J. ; Pengcheng Dai ; Mook H.A. ; Argyriou D.N. ; Sikolenko V. ; Lynn J.W. ; Kurita Y. ; Komiya S. ; Ando Y.

Electronically competing phases and their magnetic field dependence in electron-doped nonsuperconducting and superconducting Pr_{0.88}LaCe_{0.12}CuO_{4+or-delta}

Physical Review B
71 (2005) 214512/1 - 17

Karpinsky D.V. ; Troyanchuk I.O. ; Bäumer K. ; Szymczak H. ; Tovar M.

Crystal structure and magnetic ordering of the LaCo_{1-x}Fe_xO₃ system

Journal of Physics: Condensed Matter
17 (46) (2005) 7219 - 7226

Kreitlow J. ; Mathoniere C. ; Feyerherm R. ; Süllow S.

Pressure response of the bimetallic chain compound MnNi(NO₂)₄(en)₂; en = ethylenediamine

Polyhedron
24 (2005) 2413 - 2416

Kreitlow J. ; Menzel D. ; Wolter A.U.B. ; Schoenes J. ; Süllow S. ; Feyerherm R. ; Doll K.

Pressure dependence of C₄N₂H₄-mediated superexchange in XCl₂(C₄N₂H₄)₂ (X=Fe,Co,Ni)

Physical Review B
72 (2005) 134418/1 - 6

Köbler U. ; Hoser A.

Stable magnetic universality classes for T-> 0

Physica B
362 (2005) 295 - 305

Lee S. ; Podlesnyak A.A. ; Prokes K. ; Sikolenko V.E. ; Ermolenko A.S. ; Gerasimov E.G. ; Dorofeev Yu.A. ; Vokhmyanin A.P. ; Park J.-G. ; Pirogov A.N.

Magnetic phase transitions in TbNi₅ single crystal: bulk properties and neutron diffraction studies

JETP Letters

82 (2005) 34 - 38

Ono T. ; Tanaka H. ; Kolomyiets O. ; Mitamura H. ; Ishikawa F. ; Goto T. ; Nakajima K. ; Oosawa A. ; Koike Y. ; Kakurai K. ; Klenke J. ; Smeibidl P. ; Meissner M. ; Coldea R. ; Tennant D.A. ; Ollivier J.

Field-induced phase transitions driven by quantum fluctuation in S=1/2 anisotropic triangular antiferromagnet Cs₂CuBr₄

Progress of Theoretical Physics / Supplement

159 (2005) 217 - 221

Pissas M. ; Margiolaki I. ; Papavassiliou G. ; Stamopoulos D. ; Argyriou D.

Crystal and magnetic structure of the La_{1-x}Ca_xMnO₃ compound (0.11 < x <= 0.175).

Physical Review B

72 (2005) 064425/1 - 15

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

Helimagnetism of Fe: high pressure study of an Y₂Fe₁₇ single crystal

Physical Review Letters

94 (2005) 107201/1 - 4

Sazonov A.P. ; Troyanchuk I.O. ; Sikolenko V.V. ; Chobot G.M. ; Szymczak H.

Crystal structure, magnetic and electrical properties of the Nd_{1-x}Ba_xCoO₃ system

Journal of Physics: Condensed Matter

17 (2005) 4181 - 4195

Schorr S. ; Tovar M. ; Sheptyakov D. ; Keller L. ; Geandier G.

Crystal structure and cation distribution in the solid solution series 2(ZnX)-CuInX₂ (X=S, Se, Te)

Journal of Physics and Chemistry of Solids

66 (2005) 1961 - 1965

Szytula A. ; Penc B. ; Wawrzynska E. ; Hernandez-Velasco J.

Magnetic structure of the TbCu₂In compound

Journal of Alloys and Compounds

388 (2005) L4 - L7

Wawrzynska E. ; Balanda M. ; Baran S. ; Leciejewicz J. ; Penc B. ; Stüßer N. ; Szytula A.

Commensurate-incommensurate magnetic phase transitions in PrCu₂Ge₂ and NdFe₂Ge₂

Journal of Physics: Condensed Matter

17 (2005) 1037 - 1047

Wawrzynska E. ; Hernández-Velasco J. ; Penc B. ; Rams M. ; Szytula A.

Magnetic structures of R₃Pd₄Ge₄ (R = Tb and Er)

Journal of Magnetism and Magnetic Materials

288 (2005) 111 - 120

Zhang L. ; Moze O. ; Prokes K. ; Tegus O. ; Brück E.

Neutron diffraction study of history dependence in MnFeP_{0.6}Si_{0.4}

Journal of Magnetism and Magnetic Materials

290-291 (2005) 679 - 681

SF3.BENSC

Bastürk M. ; Arztmann J. ; Jerlich W. ; Kardjilov N. ; Lehmann E. ; Zawisky M.

Analysis of neutron attenuation in boron-alloyed stainless steel with neutron radiography and JEN-3 gauge

Journal of Nuclear Materials

341 (2005) 189 - 200

Bastürk M. ; Kardjilov N. ; Lehmann E. ; Zawisky M.

Monte Carlo simulation of neutron transmission of boron-alloyed steel

IEEE Transactions on Nuclear Science
52 (2005) 394 - 399

Bastürk M. ; Kardjilov N. ; Rauch H. ; Vontobel P.

Neutron imaging of fiber-reinforced materials

Nuclear Instruments and Methods in Physics Research A
542 (2005) 106 - 115

Handstein A. ; Rößler U.K. ; Idzikowski B. ; Kozlova N. ; Nenkov K. ; Müller K.-H. ; Kreyszig A. ; Loewenhaupt M. ; Heinemann A. ; Hoell A. ; Stüßer N.

Change of magnetoresistivity and magnetic structure of MnAu₂ by iron substitution

Journal of Magnetism and Magnetic Materials
290-291 (2005) 1093 - 1096

Heinemann A. ; Wiedenmann A.

Insight into the formation of partially ordered structures in Co-based ferrofluids

Journal of Magnetism and Magnetic Materials
289 (2005) 149 - 151

Kardjilov N. ; Böni P. ; Hilger A. ; Strobl M. ; Treimer W.

Characterization of a focusing parabolic guide using neutron radiography method

Nuclear Instruments and Methods in Physics Research A
542 (2005) 248 - 252

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

Industrial applications at the new cold neutron radiography and tomography facility of the HMI

Nuclear Instruments and Methods in Physics Research A
542 (2005) 16 - 21

Kardjilov N. ; Lee S.W. ; Lehmann E. ; Lim I.C. ; Sim C.M. ; Vontobel P.

Improving the image contrast and resolution in the phase-contrast neutron radiography

Nuclear Instruments and Methods in Physics Research A
542 (2005) 100 - 105

Kardjilov N. ; de Beer F. ; Hassanein R. ; Lehmann E. ; Vontobel P.

Scattering corrections in neutron radiography using point scattered functions

Nuclear Instruments and Methods in Physics Research A
542 (2005) 336 - 341

Kiselev M.A. ; Zbytovska J. ; Matveev D. ; Wartewig S. ; Gapienko I.V. ; Perez J. ; Lesieur P. ; Hoell A. ; Neubert R.

Influence of trehalose on the structure of unilamellar DMPC vesicles

Colloids and Surfaces A
256 (2005) 1 - 7

Lieutenant K. ; Gutberlet T. ; Wiedenmann A. ; Mezei F.

Monte-Carlo simulations of small angle neutron scattering instruments at European spallation source

Nuclear Instruments and Methods in Physics Research A
553 (2005) 592 - 603

Löffler J.F. ; Braun H.B. ; Wagner W. ; Kostorz G. ; Wiedenmann A.

Magnetization processes in nanostructured metals and small-angle neutron scattering

Physical Review B
71 (2005) 134410/1 - 15

Matsushima U. ; Kawabata Y. ; Kardjilov N. ; Herppich W.B.

The potential of neutron and X-ray imaging to observe water transport in plants

In: Non-destructive methods for detecting health promoting compounds : COST action 924 working group meeting, 7 - 8 December 2005, eds. Zude-Sasse M. [u.a.]

ATB, Potsdam-Bornim, 2005, 87 - 89

Pop L.M. ; Odenbach S. ; Wiedenmann A. ; Matoussevitch N. ; Bönnemann H.

Microstructure and rheology of ferrofluids

Journal of Magnetism and Magnetic Materials

289 (2005) 303 - 306

Strunz P. ; Mukherji D. ; Schumacher G. ; Vassen R. ; Gilles R. ; Rösler J. ; Wiedenmann A.

Microstructure investigation of superalloys and ceramic coatings using Small-Angle Neutron Scattering

In: Microstructure analysis in the materials science : Freiburger Forschungsforum, 56. Berg- und Hüttenmännischer Tag 2005; Freiberg, 15. bis 17. Juni 2005, eds. Rafaja D. [u.a.]

Techn. Univ. Bergakad., Freiberg, 2005, 39 - 41

Tatchev D. ; Hoell A. ; Kranold R. ; Armyanov S.

Size distribution and composition of magnetic precipitates in amorphous Ni-P alloy

Physica B

369 (2005) 8 - 19

Triolo R. ; Celso F.L. ; Benfante V. ; Triolo A. ; Wiedenmann A. ; Bernstorff S.

Small angle scattering study of poly(methylmethacrylate)-block-poly(ethylene oxide) block copolymer in aqueous solution

Progress in Colloid and Polymer Science

130 (2005) 79 - 84

SF - BENSC

Addenda to 2004

SF1.BENSC

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

Search for P-odd asymmetry of prompt neutron emission in ²³⁵U fission induced by cold polarized neutrons

JETP Letters

80 (11) (2004) 675 - 677

Joseph Y. ; Krasteva N. ; Besnard I. ; Guse B. ; Rosenberger M. ; Wild U. ; Knop-Gericke A. ; Schlögl R. ; Krustev R. ; Yasuda A. ; Vossmeier T.

Gold-nanoparticle/organic linker films: self-assembly, electronic and structural characterisation, composition and vapour sensitivity

Faraday Discussions

125 (2004) 77 - 97

Lake B. ; Aeppli G. ; Christensen N.B. ; Lefmann K. ; McMorro D.F. ; Clausen K.N. ; Ronnow H.M. ; Vorderwisch P. ; Smeibidl P. ; Mankorntong M. ; Sasagawa T. ; Nohara M. ; Takagi H. ; Hussey N.E.

Effects of magnetic field on the cuprate high-T_c superconductor La_{2-x}Sr_xCuO₄

Physica Status Solidi B

241 (2004) 1223 - 1228

Norgaard Toft K. ; Abrahamsen A.B. ; Eskildsen M.R. ; Lefmann K. ; Andersen N.H. ; Vorderwisch P. ; Smeibidl P. ; Meissner M. ; Canfield P.C.

Neutron diffraction study of anomalous high-field magnetic phases in TmNi₂B₂C

Physical Review B
69 (2004) 214507/1 - 8

Wagh A.G. ; Rakhecha V.C. ; Strobl M. ; Treimer W.

A polarised SUSANS facility to study magnetic systems

Pramana - Journal of Physics
63 (2) (2004) 369 - 373

SF2.BENSC

Glavatska N. ; Mogylnyy G. ; Danilkin S. ; Hohlwein D.

Temperature dependence of lattice parameters in martensite and effect of the external magnetic field on martensite structure in Ni₂MnGa studied in situ with neutron diffraction

Materials Science Forum
443-446 (2004) 397 - 400

Ono T. ; Tanaka H. ; Kolomyiets O. ; Mitamura H. ; Goto T. ; Nakajima K. ; Oosawa A. ; Koike Y. ; Kakurai K. ; Klenke J. ; Smeibidl P. ; Meißner M.

Magnetization plateaux of the S=1/2 two-dimensional frustrated antiferromagnet Cs₂CuBr₄

Journal of Physics: Condensed Matter
16 (2004) S773 - S778

SF3.BENSC

Zrník J. ; Strunz P. ; Vrchovinsky V. ; Muransky O. ; Hornak P. ; Wiedenmann A.

Creep deformation and microstructural examination of a prior thermally exposed nickel base superalloy

Key Engineering Materials
274-276 (2004) 925 - 930

SF - ISL

ISL.PPT

Berg A. ; Bayreder C. ; Naumann I. ; Heufelder J.

3D-high-resolution dosimetry of a 12 mm proton-beam in normoxic polymer gels

Biomedizinische Technik
50 [Suppl. 1 ; Pt. 1] (2005) 118 - 119

Cordini D. ; Marnitz S. ; Fuchs H.

MRI-based treatment planning for proton therapy of uveal melanomas - first experience

Biomedizinische Technik
50 [Suppl. 1 ; Pt. 1] (2005) 465 - 466

Fippel M. ; Soukup M. ; Weber A. ; Heufelder J.

Implementation of geometry modules into the Monte Carlo dose calculation algorithm VMCPRO to modulate proton beams for the treatment planning of ocular tumours

Biomedizinische Technik
50 [Suppl. 1 ; Pt. 1] (2005) 467 - 468

Heufelder J. ; Stark R. ; Weber A.

Influence of tantalum clips used in eye tumour therapy on the dose distribution of a 68 MeV proton beam

Biomedizinische Technik
50 [Suppl. 1 ; Pt. 1] (2005) 344 - 345

Höcht S. ; Stark R. ; Seiler F. ; Heufelder J. ; Bechrakis N.E. ; Cordini D. ; Marnitz S. ; Kluge H. ; Foerster M.H. ; Hinkelbein W.

Proton or stereotactic photon irradiation for posterior uveal melanoma? A planning intercomparison

Strahlentherapie und Onkologie
181 (2005) 783 - 788

Naumann I. ; Heufelder J. ; Pfaender M. ; Lüdemann L. ; Grebe G. ; Bayreder C. ; Berg A.

Dosimetry of a 68 MeV proton beam using normoxic polymer gels and 3 T MR-scanners

Biomedizinische Technik
50 [Suppl. 1 ; Pt. 1] (2005) 125 - 126

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

Comparative treatment planning for proton therapy of eye tumours with EYEPLAN and OCTOPUS

Biomedizinische Technik
50 [Suppl. 1 ; Pt. 2] (2005) 1056 - 1057

Soukup M. ; Weber A. ; Heufelder J. ; Fippel M.

Comparison of Geant4 and MCNPX simulations of a clinical proton therapy facility

Biomedizinische Technik
50 [Suppl. 1 ; Pt. 1] (2005) 463 - 464

Stark R. ; Fromme M. ; Cordini D. ; Heufelder J. ; Simiantonakis I. ; Weber A. ; Kluge H.

Computer-aided patient positioning in proton therapy of eye tumours

Biomedizinische Technik
50 [Suppl. 1 ; Pt. 1] (2005) 346 - 347

ISL.User

Barradas N.P. ; Added N. ; Arnoldbik W.M. ; Bogdanovic-Radovic I. ; Bohne W. ; Cardoso S. ; Danner C. ; Dytlewski N. ; Freitas P.P. ; Jaksic M. ; Jeynes C. ; Krug C. ; Lennard W.N. ; Lindner S. ; Linsmeier Ch. ; Medunic Z. ; Pelicon P. ; Pezzi R.P. ; Radtke C. ; Röhrich J. ; Sajavaara T. ; Salgado T.D.M. ; Stedile F.C. ; Tabacniks M.H. ; Vickridge I.

A round robin characterisation of the thickness and composition of thin to ultra-thin AINO films

Nuclear Instruments and Methods in Physics Research B
227 (2005) 397 - 419

Denker A. ; Blaich M.C.

High-energy PIXE on Early Medieval metal objects

In: Proceedings of the 33rd International Symposium on Archaeometry, 22-26 April 2002, Amsterdam, eds. Kars H. ; Burke E.
Vrije Universiteit, Amsterdam, 2005, 319 - 322

Denker A. ; Bohne W. ; Campbell J.L. ; Heide P. ; Hopman T. ; Maxwell J.A. ; Opitz-Coutureau J. ; Rauschenberg J. ; Röhrich J. ; Strub E.

High-energy PIXE using very energetic protons: quantitative analysis and cross-sections

X-Ray Spectrometry
34 (2005) 376 - 380

Denker A. ; Bohne W. ; Opitz-Coutureau J. ; Rauschenberg J. ; Röhrich J. ; Strub E.

Influence of corrosion layers on quantitative analysis

Nuclear Instruments and Methods in Physics Research B
239 (2005) 65 - 70

Denker A. ; Hahn O. ; Merchel S. ; Radtke M. ; Kanngießer B. ; Malzer W. ; Röhrs S. ; Reiche I. ; Stege H.
Röntgenanalytik für Kunstwerke und Kulturgüter
Nachrichten aus der Chemie
53 (2005) 118 - 123

Denker A. ; Homeyer H. ; Kluge H. ; Opitz-Coutureau J.
Industrial and medical applications of high-energy ions
Nuclear Instruments and Methods in Physics Research B
240 (2005) 61 - 68

Gromball F. ; Ong K. ; Groth C. ; Fu L. ; Müller J. ; Strub E. ; Bohne W. ; Röhrich J.
Impurities in electron beam recrystallised silicon absorbers on glass
In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]
WIP-Renewable Energies, München, 2005, 1431 - 1433

San Andrés E. ; Toledano-Luque M. ; del Prado A. ; Navacerrada M.A. ; Mártel I. ; González-Díaz G. ; Bohne W. ; Röhrich J. ; Strub E.
Physical properties of high pressure reactively sputtered TiO₂
Journal of Vacuum Science and Technology A
23 (2005) 1523 - 1530

Santra S. ; Mitra D. ; Sarkar M. ; Bhattacharya D. ; Denker A. ; Opitz-Coutureau J. ; Rauschenberg J.
Analysis of some coins by energy dispersive X-ray fluorescence (EDXRF) and high energy particle induced X-ray emission (PIXE) techniques
Nuclear Instruments and Methods in Physics Research B
229 (2005) 465 - 470

Strub E.
Soddy, Wells und die Atombombe
Physik Journal
4 Nr.7 (2005) 47 - 51

Strub E. ; Bohne W. ; Röhrich J.
Hints on chemical information obtained by ERDA measurements
Nuclear Instruments and Methods in Physics Research B
240 (2005) 283 - 287

Thamm T. ; Körner K.-U. ; Bohne W. ; Strub E. ; Röhrich J. ; Stöckel S. ; Marx G.
Characterization of PECVD boron carbonitride layers
Applied Surface Science
252 (2005) 223 - 226

SF - ISL

Addenda to 2004

ISL.User

Denker A. ; Opitz-Coutureau J. ; Rauschenberg J. ; Campbell J.L. ; Maxwell J.A. ; Hopman T.
Quantitative analysis using very energetic protons
In: 10th International Conference on Particle-Induced X-Ray Emission and its Analytical Applications, PIXE 2004, Portoroz, Slovenia, 4 - 8 June 2004, eds. Budnar M.G. [u.a.]
J. Stefan Inst., Ljubljana, 2004, 204.1 - 204.3

Rauschenberg J. ; Bohne W. ; Denker A. ; Heide P. ; Opitz-Coutureau J. ; Röhrich J. ; Strub E.
Measurements of high-energy-PIXE cross sections with 68 MeV protons for various thin target elements

In: 10th International Conference on Particle-Induced X-Ray Emission and its Analytical Applications, PIXE 2004, Portoroz, Slovenia, 4 - 8 June 2004, eds. Budnar M.G. [u.a.]
J. Stefan Inst., Ljubljana, 2004, 814.1 - 814.3

SF - BESSY

SF2.BESSY

Beutier G. ; van der Laan G. ; Chesnel K. ; Marty A. ; Belakhovsky M. ; Collins S.P. ; Dudzik E. ; Toussaint J.-C. ; Gilles B.

Characterization of FePd bilayers and trilayers using soft x-ray resonant magnetic scattering and micromagnetic modeling

Physical Review B
71 (2005) 184436/1 - 12

Genzel C.

X-ray residual stress analysis in thin films under grazing incidence - basic aspects and applications

Materials Science and Technology
21 (2005) 10 - 18

Genzel Ch. ; Klaus M. ; Denks I. ; Wulz H.G.

Residual stress fields in surface-treated silicon carbide for space industry--comparison of biaxial and triaxial analysis using different X-ray methods

Materials Science and Engineering A
390 (2005) 376 - 384

Imperia P. ; Schmitz, D. ; Maletta H. ; Sobal N.S. ; Giersig M.

Effect of Ar⁺ and H⁺ etching on the magnetic properties of Co/CoO core-shell nanoparticles

Physical Review B
72 (2005) 014448/1 - 7

Rehr J.J. ; Kozdon J. ; Kas J. ; Krappe H.J. ; Rossner H.H.

Bayes-Turchin approach to XAS analysis

Journal of Synchrotron Radiation
12 (2005) 70 - 74

Rossner H.H. ; Holub-Krappe E. ; Fieber-Erdmann M. ; Krappe H.J.

Lattice dynamics information obtained from EXAFS measurements on Ta

Physica Scripta
T115 (2005) 45 - 48

SF3.BESSY

Manke, I. ; Kardjilov, N. ; Haibel, A. ; Hartnig, C. ; Strobl, M. ; Rack, A. ; Hilger, A. ; Scholta, J. ; Lehnert, W. ; Treimer, W. ; Zabler, S. ; Banhart, J.

Untersuchung der Wasserverteilung in Brennstoffzellen

In: ZfP in Forschung, Entwicklung und Anwendung : Rostock, 2.-4. Mai 2005 ; Jahrestagung 2005
Zerstörungsfreie Materialprüfung / DGZfP
DGZfP, Berlin, 2005

Manke, I. ; Kardjilov, N. ; Haibel, A. ; Rack, A. ; Hilger, A. ; Strobl, M. ; Treimer, W. ; Zabler, S. ; Banhart, J.

Untersuchung industrieller Bauteile mit bildgebenden Verfahren

In: ZfP in Forschung, Entwicklung und Anwendung : Rostock, 2.-4. Mai 2005 ; Jahrestagung 2005
Zerstörungsfreie Materialprüfung / DGZfP
DGZfP, Berlin, 2005

SF4.BESSY

Darowski N. ; Zizak I. ; Schumacher G.

Surface and bulk structural changes in InP single crystals induced by 350 MeV Au ion irradiation

Physica B

357 (2005) 118 - 121

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

Temperature dependence of x-ray intensity profile FWHM of the gamma' phase in the creep-deformed single crystal superalloy SC16

Journal of Physics D

38 (2005) A200 - A203

Eiper, E. ; Martinschitz, K.J. ; Gerlach, J.W. ; Lackner, J.M. ; Zizak, I. ; Darowski, N. ; Keckes, J.

X-ray elastic constants determined by the combination of $\sin^2 \Psi$ and substrate-curvature methods

Zeitschrift für Metallkunde

96 (2005) 1069 - 1073

Hellhammer R. ; Sobocinski P. ; Pesic Z.D. ; Bundesmann J. ; Fink D. ; Stolterfoht N.

Interaction of slow highly charged ions with the inner surface of nanocapillaries

Nuclear Instruments and Methods in Physics Research B

232 (2005) 235 - 243

Hossain S. ; Landers A.L. ; Stolterfoht N. ; Tanis J.A.

Interference phenomena associated with electron-emission from H₂ by (1-5)-MeV H⁺ impact

Physical Review A

72 (2005) 010701/1 - 4

Schumacher G. ; Chen W.

Mechanical behaviour of single crystal superalloy SC16 under hold time LCF loading

In: Creep & fracture in high temperature components : design & life assessment issues ; proceedings ; September 12-14, 2005, London, eds. Shibli I.A.

DEStech Publ, Lancaster, Pa., 2005, 662 - 671

Tökesi K. ; Sulik B. ; Stolterfoht N.

Fermi-shuttle type multiple electron scattering in atomic collisions

Nuclear Instruments and Methods in Physics Research B

233 (2005) 187 - 190

SF - BESSY**Addenda to 2004****SF2.BESSY**

Genzel Ch.

Diffraction stress analysis in thin films and coatings--problems, methods and perspectives

Journal of Neutron Research

12 (2004) 233 - 241

Genzel Ch. ; Stock C. ; Reimers W.

Application of energy-dispersive diffraction to the analysis of multiaxial residual stress fields in the intermediate zone between surface and volume

Materials Science and Engineering A

372 (2004) 28 - 43

SF1 - Methods and Instruments**DN**

Eschricht N. ; Hoinkis E. ; Mädler F. ; Schubert-Bischoff P. ; Röhl-Kuhn B.

Knowledge-based reconstruction of random porous media

Journal of Colloid and Interface Science

291 (2005) 201 - 213

SF1.Methods

Graubner V.-M. ; Clemens D. ; Gutberlet T. ; Kötz R. ; Lippert T. ; Nuyken O. ; Schnyder B. ; Wokaun A.

Neutron reflectometry and spectroscopic ellipsometry studies of cross-linked poly(dimethylsiloxane) after irradiation at 172 nm

Langmuir

21 (2005) 8940 - 8946

Krist, Th.

Neutron optics from HMI Berlin

In: International Symposium on Research Reactor and Neutron Science in Commemoration of the 10th Anniversary of HANARO / HANARO 2005 ; April 11-13, 2005. Daejeon, Korea

2005, 561 - 565

Mezei F.

Polarized neutron scattering research: the beginning

Physica B

356 (2005) 64 - 70

SF1.Spallation

Lieutenant K.

Optimization of neutron scattering instruments using different optimization routines

Journal of Physics: Condensed Matter

17 (2005) S167 - S174

Monkenbusch M. ; Ohi M. ; Richter D. ; Pappas C. ; Zsigmond G. ; Lieutenant K. ; Mezei F.

Aspects of neutron spin-echo spectrometer operation on a pulsed source

Journal of Neutron Research

13 (2005) 63 - 66

Ter-Avetisyan S. ; Schnürer M. ; Hilscher D. ; Jahnke U. ; Busch S. ; Nickles P.V. ; Sandner W.

Fusion neutron yield from a laser-irradiated heavy-water spray

Physics of Plasmas

12 (2005) 012702/1 - 5

Tishchenko V. ; Herbach C.-M. ; Hilscher D. ; Jahnke U. ; Galin J. ; Goldenbaum F. ; Letourneau A. ; Schröder W.-U.

Fast decision in favor of the slow fission process

Physical Review Letters

95 (2005) 162701/1 - 4

SF3.Microstructure

Wollgarten M. ; Hiller S. ; Vierke J. ; Haibel A. ; Schubert-Bischoff P. ; Sahoo K.L. ; Banhart J.

Study of the microstructure of rapidly solidified Al-Ni-La-Zr alloys by synchrotron tomography and transmission electron microscopy

In: Proceedings / Microscopy conference 2005 ; 6. Dreiländertagung : August 28 - September 2, 2005, Davos 2005

SF1 - Methods and Instruments**Addenda to 2004****SF1.Methods**

Gupta M. ; Gutberlet T. ; Stahn J. ; Keller P. ; Clemens D.

AMOR - the time-of-flight neutron reflectometer at SINQ/PSI

Pranama - Journal of Physics

63 (1) (2004) 57 - 63

Ioffe A. ; Manoshin S.

Larmor labelling by thin spin flippers with rotating magnetic field: simulations of performance of neutron scattering instruments

Nuclear Instruments and Methods in Physics Research A

529 (2004) 45 - 49

SF1.Spallation

Ioffe A. ; Manoshin S.

A neutron spin-echo spectrometer based upon thin magnetic film flippers: the simulation of performance

Physica B

345 (2004) 235 - 238

SF2 - Magnetism**SF2.Bulk magnetism**

Köbler U. ; Hoser A. ; Bos J. ; Schäfer W. ; Pohlmann L.

Weak ferromagnets with integer and half-integer spin quantum numbers

Physica B

355 (2005) 90 - 99

Prokes K. ; Bewley R. ; Eccleston R. ; Brück E. ; Syschenko O. ; Sechovsky V.

Magnetic response function in URhGe

Physica B

359-361 (2005) 1123 - 1125

Prokes K. ; Munoz Sandoval E. ; Chinchure A.D. ; Mydosh J.A.

Uncompensated antiferromagnetic structure of Ho₂Ni₂Pb

European Physical Journal B

43 (2005) 163 - 174

Sechovsky V. ; Honda F. ; Prokes K. ; Griveau J.C. ; Andreev A.V. ; Arnold Z. ; Kamarad J. ; Oomi G.

Pressure effects on magnetism in U intermetallics: the UPtAl case

Journal of Magnetism and Magnetic Materials

290-291 (2005) 629 - 632

Sechovsky V. ; Vejpravova J. ; Andreev A.V. ; Honda F. ; Prokes K. ; Santava E.

Specific heat and magnetism of a UIrGe single crystal

Physica B

359-361 (2005) 1126 - 1128

Stüßner N. ; Hoser A. ; Meißner M.

The magnetic spiral in the frustrated antiferromagnet RbCuCl₃ studied by means of neutron diffraction

Journal of Physics: Condensed Matter
17 (2005) 1335 - 1340

Wolter A.U.B. ; Wzietek P. ; Süllow S. ; Litterst F.J. ; Honecker A. ; Brenig W. ; Feyerherm R. ; Klauss H.-H.

Giant spin canting in the S = 1/2 antiferromagnetic chain [CuPM(NO₃)₂(H₂O)₂]_n observed by ¹³C-NMR

Physical Review Letters
94 (2005) 057204/1 - 4

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

Electron spin resonance in sine-Gordon spin chains in the perturbative spinon regime

Physical Review Letters
95 (2005) 017207/1- - 4

SF2.Others

Lake B. ; Tennant D.A. ; Frost C.D. ; Nagler S.E.

Quantum criticality and universal scaling of a quantum antiferromagnet

Nature Materials
4 (2005) 329 - 334

Mädler F. ; Knorr K.

Geometric modeling of force equilibria in crystals: the "equal distance - equal force" formalism (EDEF)

Zeitschrift für Kristallographie
220 (2005) 85 - 94

SF2.Quantum Phenomena

Wolter A. U. B. ; Wzietek P. ; Jerome D. ; Süllow S. ; Litterst F.J. ; Feyerherm R. ; Klauss H.-H.

Observation of solitons in the S=1/2 antiferromagnetic chain [CuPM(NO₃)₂(H₂O)₂]_n by ¹³C-NMR

Journal of Magnetism and Magnetic Materials
290-291 (2005) 302 - 305

SF4.Structures

Koteski V. ; Haas H. ; Holub-Krappe E. ; Ivanovic N. ; Mahnke H.-E.

Lattice relaxation around arsenic and selenium in CdTe

Physica Scripta
T115 (2005) 369 - 371

SF2 - Magnetism

Addenda to 2004

SF2.Bulk magnetism

Kohout A. ; Batko I. ; Czopnik A. ; Flachbart K. ; Matas S. ; Meissner M. ; Paderno Y. ; Shitsevalova N. ; Siemsmeyer K.

Phase diagram and magnetic structure investigation of the fcc antiferromagnet HoB₁₂

Physical Review B
70 (2004) 224416/1 - 7

Prokes K. ; Nakotte H. ; Sechovský V. ; Mihalik M. ; Andreev A.V.

On the magnetic structure of UIrGe

Physica B

350 (2004) e199 - e202

SF3 - Materials

SF3.Light weight mat.

Babcsan N. ; Garcia-Moreno F. ; Banhart J.

Role of oxidation during blowing of aluminium foams by external gas injection

In: Proceedings of Met'Foam 2005, Kyoto, Japan, Sept. 21-23, 2005

2005

Babcsán N. ; Leitlmeier D. ; Banhart J.

Metal foams - high temperature colloids Part I. Ex situ analysis of metal foams

Colloids and surfaces A

261 (2005) 123 - 130

Banhart J.

Aluminium foam technology - towards industrial implementation

Indian Foundry Journal

51 (2) (2005) 36 - 41

Banhart J.

Aluminium foams for lighter vehicles

International Journal of Vehicle Design

37 (2/3) (2005) 114 - 125

Garcia Moreno F. ; Babcsan N. ; Banhart J. ; Haesche M. ; Weise J.

Analysis of metal foaming behaviour and development of foaming processes

In: Cellular metals and polymers : CMaP ; proceedings of the Symposium on Cellular Metals and Polymers, held October 12 - 14, 2004, in Fürth, Germany, eds. Singer R.F. [u.a.]

Trans Tech Publ., Uetikon-Zuerich, 2005, 31 - 34

Garcia-Moreno F. ; Babcsan N. ; Banhart J.

X-ray radioscopy of liquid metalfoams: influence of heating profile, atmosphere and pressure

Colloids and Surfaces A

263 (2005) 290 - 294

Griesche A. ; Macht M.-P. ; Frohberg G.

Chemical diffusion in bulk glass-forming Pd₄₀Cu₃₀Ni₁₀P₂₀ melts

Scripta Materialia

53 (2005) 1395 - 1400

Irretier A. ; Banhart J.

Lead and lead alloy foams

Acta Materialia

53 (2005) 4903 - 4917

Shinsuke S. ; Kraatz K.-H. ; Griesche A. ; Frohberg G.

Shear cell development for diffusion experiments in FOTON-satellite missions and on the ground with consideration of shear-induced convection

Microgravity Science and Technology

16 (2005) 127 - 132

SF3.Microstructure

LaGrange T. ; Schäublin R. ; Grummon D.S. ; Abromeit ; Gotthardt R.

Irradiation-induced phase transformation in undeformed and deformed NiTi shape memory thin films by high-energy ion beams

Philosophical Magazine
85 (2005) 577 - 587

Reissig L. ; Czubayko U. ; Wanderka N. ; Völkl R. ; Glatzel U.

Comparison of oxide measurement techniques applied to Ti6Al4V

Materials Characterization
55 (2005) 153 - 159

Sahoo K.L. ; Wollgarten M. ; Haug J. ; Banhart J.

Effect of La on the crystallization behaviour of amorphous $Al_{94-x}Ni_6La_x$ (x = 4-7) alloys

Acta Materialia
53 (2005) 3861 - 3870

Sahoo K.L. ; Wollgarten M. ; Kim K.B. ; Banhart J.

Crystallization behavior and microhardness evolution in $Al_{92-x}Ni_8La_x$ amorphous alloys

Journal of Materials Research
20 (11) (2005) 2927 - 2933

Wollgarten M. ; Hiller S. ; Vierke J. ; Haibel A. ; Schubert-Bischoff P. ; Sahoo K.L. ; Banhart J.

Study of the microstructure of rapidly solidified Al-Ni-La-Zr alloys by synchrotron tomography and transmission electron microscopy

In: Proceedings / Microscopy conference 2005 ; 6. Dreiländertagung : August 28 - September 2, 2005, Davos 2005

SF3.Nanostructures

Wiedenmann A.

Polarized SANS for probing magnetic nanostructures

Physica B
356 (2005) 246 - 253

Wiedenmann A. ; Heinemann A.

Field-induced ordering phenomena in ferrofluids observed by small-angle neutron scattering

Journal of Magnetism and Magnetic Materials
289 (2005) 58 - 61

SF3.Others

Babcsan J.K. ; Maros M.B. ; Wanderka N. ; Klaffke D. ; Schubert H.

Effect of ion-implantation on the microstructure of Si_3N_4 based ceramics

Key Engineering Materials
290 (2005) 234 - 237

SF3 - Materials**Addenda to 2004****SF3.Light weight mat.**

Banhart J.

Industrialisation of aluminium foam technology

In: Aluminium alloys : their physical and mechanical properties : proceedings of the 9th International Conference on aluminium alloys (ICAA9), eds. Muddle B.C. [u.a.]
Inst. of Mater. Eng. Austral., North Melbourne, Vic., 2004, 764 - 770

SF4.Structures

Chen W. ; Liu Q.K.K. ; Schumacher G. ; Wanderka N. ; Neumann W.

Elastic strain energy study of directional coarsening of γ' precipitates in single crystal superalloys: a 3D finite element analysis

In: Solid state transformation and heat treatment : Euromat 2003, the 8th European Congress and Exhibition on Advanced Materials and Processes held in Lausanne (CH) on 1-5 September 2003, eds. Hazotte A.
Wiley-VCH, Weinheim, 2004, 69 - 76

SF4 - Structure and Dynamics**SE2.Concepts**

Dittrich Th. ; Muffler H.-J. ; Vogel M. ; Guminskaya T. ; Ogacho A. ; Belaidi A. ; Strub E. ; Bohne W. ; Röhrich J. ; Hilt O. ; Lux-Steiner M.Ch.

Passivation of TiO₂ by ultra-thin Al-oxide

Applied Surface Science
240 (2005) 236 - 243

SE2.Semico

Rusu M. ; Doka S. ; Meeder A. ; Würz R. ; Strub E. ; Röhrich J. ; Blöck U. ; Schubert-Bischoff P. ; Bohne W. ; Schedel-Niedrig Th. ; Lux-Steiner M.Ch.

Structural peculiarities of CCSVT-grown CuGaSe₂ thin films

Thin Solid Films
480-481 (2005) 352 - 357

SE5.Energetics

Rojas-Chapana J.A. ; Tributsch H. ; Fink D. ; Petrov A.

Colloidal assembly and functionalization of pore channels in polymer foils

Journal of Porous Materials
12 (2005) 215 - 224

SF4.Dynamics

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

The influence of the Coulomb explosion on the energy loss of H₂⁺ and H₃⁺ molecules channeling along the Si<100> direction

Nuclear Instruments and Methods in Physics Research B
230 (2005) 96 - 99

Fadanelli R.C. ; Grande P.L. ; Schiwietz G.

Impact-parameter dependence of the electronic energy loss of fast cluster projectiles

Nuclear Instruments and Methods in Physics Research B
230 (2005) 17 - 23

Grande P.L. ; Hentz A. ; Schiwietz G. ; Starodub D. ; Garfunkel E. ; Gustafsson T.

Observation of collective inner-shell effects for protons backscattered from the Al(110) surface

Physical Review A
72 (2005) 012902/1 - 4

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

Boundary effects on the plastic flow of amorphous layers during high-energy heavy-ion irradiation

Physical Review B
72 (2005) 054108/1 - 12

Hellhammer R. ; Pesic Z.D. ; Sobocinski P. ; Fink D. ; Bundesmann J. ; Stolterfoht N.

Guided transmission of highly charged ions through nanocapillaries in PET: study of the energy dependence

Nuclear Instruments and Methods in Physics Research B
233 (2005) 213 - 217

Hossain S. ; Stolterfoht N. ; Tanis J.A.

Coherent two-center electron emission from static and transient molecules

Nuclear Instruments and Methods in Physics Research B
233 (2005) 201 - 206

Munoz-Marquez M.A. ; Parkinson G.S. ; Woodruff D.P. ; Hentz A. ; Grande P.L. ; Schiwietz G. ; Wood T.J. ; Bonet C. ; Tear S.P. ; Bailey P. ; Noakes T.C.Q.

Energy loss in medium-energy ion scattering: a combined theoretical and experimental study of the model system Y on Si(111)

Physical Review B
72 (2005) 075415/1 - 10

Schattat, B. ; Bolse, W. ; Klaumünzer, S. ; Zizak, I. ; Scholz, R.

Cylindrical nanopores in NiO induced by swift heavy ions

Applied Physics Letters
87 (2005) 173110/1 - 3

Seredyuk B. ; McCullough R. W. ; Tawara H. ; Gilbody H.B. ; Bodewits D. ; Hoekstra R. ; Tielens A.G.G.M. ; Sobocinski P. ; Pesic D. ; Hellhammer R. ; Sulik B. ; Stolterfoht N. ; Abu-Hajja O. ; Kamber E.Y.

Charge exchange and dissociative processes in collisions of slow He²⁺ ions with H₂O molecules

Physical Review A
71 (2005) 022705/1 - 7

Sobocinski P. ; Pesic Z.D. ; Hellhammer R. ; Stolterfoht N. ; Chesnel J.-Y. ; Legendre S. ; Sulik B.

Fragmentation of H₂O molecules following interaction with slow He²⁺ ions

Nuclear Instruments and Methods in Physics Research B
233 (2005) 207 - 212

Staufenbiel F. ; Schiwietz G. ; Czernski K. ; Roth M. ; Grande P.L.

Electronic energy-density effects in ion tracks of metals

Nuclear Instruments and Methods in Physics Research B
230 (2005) 426 - 430

Stolterfoht N. ; Hellhammer R. ; Pesic Z.D. ; Hoffmann V. ; Bundesmann J. ; Petrov A. ; Fink D. ; Sulik B.

Guiding of slow Ne⁷⁺ ions through nanocapillaries in a PET polymer: dependence on the capillary diameter

Surface and Coatings Technology
196 (2005) 389 - 393

Stolterfoht N. ; Hellhammer R. ; Sobocinski P. ; Pesic Z.D. ; Bundesmann J. ; Sulik B. ; Shah M.B. ; Dunn K. ; Pedregosa J. ; McCullough R.W.

Guiding of slow neon and molecular hydrogen ions through nanocapillaries in PET

Nuclear Instruments and Methods in Physics Research B
235 (2005) 460 - 467

Tanis J.A. ; Hossain S. ; Sulik B. ; Stolterfoht N.

Comment on "Interference effect in electron emission in heavy ion collisions with H₂ detected by comparison with the measured electron spectrum from atomic hydrogen"

Physical Review Letters
95 (2005) 079301/1

Viktor G. ; Rajendra kumar R.T. ; Pesic Z.D. ; Stolterfoht N. ; Schuch R.

Guiding of slow highly charged ions by nanocapillaries in PET

Nuclear Instruments and Methods in Physics Research B
233 (2005) 218 - 221

SF4.Structures

Bertschat H.H.

Surface and interface magnetism on the atomic scale

In: Frontiers in magnetic materials, eds. Narlikar A.V.
Springer, Berlin, 2005, 503 - 530

Dietrich M. ; Zeitz W.-D. ; Weber A. ; Potzger K. ; Unterricker S. ; Schneider F. ; Samikhvalov V. ; the ISOLDE Collaboration

Measurement of the magnetic behaviour of ¹⁴⁷Eu and ¹⁴⁹Eu in cerium and platinum

Journal of Magnetism and Magnetic Materials
294 (2005) 330 - 337

Koteski V. ; Haas H. ; Holub-Krappe E. ; Ivanovic N. ; Mahnke H.-E.

Lattice relaxation around arsenic and selenium in CdTe

Physica Scripta
T115 (2005) 369 - 371

Mahnke H.-E. ; Haas H. ; Holub-Krappe E. ; Koteski V. ; Novakovic N. ; Fochuk P. ; Panchuk O.

Lattice distortion around impurity atoms as dopants in CdTe

Thin Solid Films
480-481 (2005) 279 - 282

Mahnke, H.-E.

Lattice relaxation around impurity atoms as dopants in semiconductors

In: Microstructure analysis in the materials science / Freiburger Forschungsforum, 56. Berg- und Hüttenmännischer Tag 2005, eds. Rafaja, D. [u.a.]
TU Bergakad., Freiberg, 2005, 10 - 12

Manzhur Y. ; Imielski P.M. ; Potzger K. ; Brewer W.D. ; Dietrich M. ; Prandolini M.J. ; Bertschat H.H.

Magnetic anisotropy of Ni modified by extreme lattice expansion

European Physical Journal B
46 (2005) 535 - 540

Potzger K. ; Weber A. ; Zeitz W.-D. ; Bertschat H.H. ; Dietrich M.

Magnetic response of isolated Cd impurities on ferromagnetic Ni surfaces and Ni-Pd interfaces: Access to ordered structures of polarized impurities with ultrahigh density

Physical Review B
72 (2005) 054435/1 - 13

Ricsoka T. ; Vikor Gy. ; Nagy Sz. ; Tökesi K. ; Berenyi Z. ; Paripas B. ; Stolterfoht N. ; Sulik B.
Accelerating multiple scattering of the emitted electrons in collisions of ions with atoms and molecules

Nuclear Instruments and Methods in Physics Research B
235 (2005) 397 - 402

SF4 - Structure and Dynamics

Addenda to 2004

SF4.Dynamics

Araujo L.L. ; Grande P.L. ; Behar M. ; Dias J.F. ; Lifschitz A.F. ; Arista N.R. ; Schiwietz G.

Electronic energy loss of channeled ions: The giant Barkas effect

Physical Review A
70 (2004) 032903/1 - 8

SF4.Structures

Chen W. ; Liu Q.K.K. ; Schumacher G. ; Wanderka N. ; Neumann W.

Elastic strain energy study of directional coarsening of γ' precipitates in single crystal superalloys: a 3D finite element analysis

In: Solid state transformation and heat treatment : Euromat 2003, the 8th European Congress and Exhibition on Advanced Materials and Processes held in Lausanne (CH) on 1-5 September 2003, eds. Hazotte A. Wiley-VCH, Weinheim, 2004, 69 - 76

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

Surface and interface investigations using radioactive atoms

Physica Status Solidi (C)
1 (2004) 3275 - 3283

Prandolini M.J. ; Manzhur Y. ; Weber A. ; Potzger K. ; Bertschat H.H. ; Ueno H. ; Miyoshi H. ; Dietrich M.

Impurity-induced magnetic units embedded in ferromagnetic surfaces

Applied Physics Letters
85 (2004) 76 - 78

SF5 - Theory

SF5.Biosystems

Benetatos P. ; Munk T. ; Frey E.

Bimodality in the transverse fluctuations of a grafted semiflexible polymer and the diffusion-convection analogue: An effective-medium approach

Physical Review E
72 (2005) 030801/1 - 4

Hallatschek O. ; Frey E. ; Kroy K.

Propagation and relaxation of tension in stiff polymers

Physical Review Letters
94 (2005) 077804/1 - 4

Pierobon P. ; Parmeggiani A. ; von Oppen F. ; Frey E.

Dynamic correlation functions and Boltzmann-Langevin approach for driven one-dimensional lattice gas

Physical Review E
72 (2005) 036123/1 - 10

Santos J.E. ; Franosch T. ; Parmeggiani A. ; Frey E.

Renewal processes and fluctuation analysis of molecular motor stepping

Physical Biology
2 (2005) 207 - 222

Sneyd J. ; Falcke M.

Models of the inositol trisphosphate receptor

Progress in Biophysics and Molecular Biology
89 (2005) 207 - 245

Straube R. ; Flockerzi D. ; Müller S.C. ; Hauser M.J.B.

Origin of bursting pH oscillations in an enzyme model reaction system

Physical Review E
72 (2005) 066205/1 - 11

Thul R. ; Falcke M.

Reactive clusters on a membrane

Physical Biology
2 (2005) 51 - 59

SF5.Hard Matter

Fröbrich P. ; Kuntz P.J.

The treatment of zero eigenvalues of the matrix governing the equations of motion in many-body Green function theory

Journal of Physics: Condensed Matter
17 (2005) 1167 - 1191

Fröbrich P. ; Kuntz P.J. ; Jensen P.J.

Coupled ferro-antiferromagnetic Heisenberg bilayers investigated by many-body Green function theory

Journal of Physics: Condensed Matter
17 (2005) 5059 - 5072

Kröger R. ; Einfeldt S. ; Chierchia R. ; Hommel D. ; Reitmeier Z.J. ; Davis R.F. ; Liu Q.K.K.

On the microstructure of $\text{Al}_x\text{Ga}_{1-x}\text{N}$ layers grown on 6H-SiC(0001)

Journal of Applied Physics
97 (2005) 083501/1 - 8

Lipperheide R. ; Wille U.

Spin-polarized electron transport in ferromagnet/semiconductor heterostructures: Unification of ballistic and diffusive transport

Physical Review B
72 (2005) 165322/1 - 22

Ritschel T. ; Kuntz P.J. ; Zülicke L.

Structure and dynamics of cationic van-der-Waals clusters. I. Binding and structure of protonated argon clusters

European Physics Journal D
33 (3) (2005) 421 - 432

SF5.Others

Eichler J.

Lectures on ion-atom collisions : from nonrelativistic to relativistic velocities

Elsevier, Amsterdam, 2005

Eichler J.

Electron-positron pair production in relativistic ion-atom collisions

Physics Letters A
347 (2005) 67 - 72

Gross D.H.E.

Microcanonical thermostatics as foundation of thermodynamics: The microscopic origin of condensation and phase separations

Physica E
29 (2005) 251 - 260

Gross D.H.E. ; Kenney J.F.

The microcanonical thermodynamics of finite systems: the microscopic origin of condensation and phase separations, and the conditions for heat flow from lower to higher temperatures

Journal of Chemical Physics
122 (2005) 224111/1 - 8

Mercader I. ; Batiste O. ; Ramirez-Piscina L. ; Ruiz X. ; Rüdiger S. ; Casademunt J.

Bifurcations and chaos in single-roll natural convection with low Prandtl number

Physics of Fluids
17 (2005) 104108/1 - 13

Rüdiger S. ; Casademunt J. ; Kramer L.

Kinks in stripe forming systems under traveling wave forcing

Discrete and Continuous Dynamical Systems - Series B
5 (2005) 1027 - 1042

Sguanci L. ; Gross D.H.E. ; Ruffo S.

Apparent fractal dimensions in the HMF model

Transport Theory and Statistical Physics
34 (2005) 431 - 440

SF5.Soft Matter

Frey E. ; Kroy K.

Brownian motion: a paradigm of soft matter and biological physics

Annalen der Physik
14 (2005) 20 - 50

Sarlah A. ; Franosch T. ; Frey E.

Melting of colloidal molecular crystals on triangular lattices

Physical Review Letters
95 (2005) 088302/1 - 4

Sedgwick H. ; Kroy K. ; Salonen A. ; Robertson M.B. ; Egelhaaf S.U. ; Poon W.C.K.

Non-equilibrium behavior of sticky colloidal particles: beads, clusters and gels

European Physical Journal E
16 (2005) 77 - 80

SF5 - Theory**Addenda to 2004****SF4.Structures**

Chen W. ; Liu Q.K.K. ; Schumacher G. ; Wanderka N. ; Neumann W.

Elastic strain energy study of directional coarsening of γ' precipitates in single crystal superalloys: a 3D finite element analysis

In: Solid state transformation and heat treatment : Euromat 2003, the 8th European Congress and Exhibition on Advanced Materials and Processes held in Lausanne (CH) on 1-5 September 2003, eds. Hazotte A. Wiley-VCH, Weinheim, 2004, 69 - 76

SF5.Biosystems

Parmeggiani A. ; Schmidt C.F.

Micromechanics of molecular motors: experiments and theory

In: Function and regulation of cellular systems : experiments and models, eds. Deutsch A. ; Falcke M. [u.a.] Birkhäuser, Basel, 2004, 151 - 176

SF5.Soft Matter

Benetatos P. ; Frey E.

Linear response of a grafted semiflexible polymer to a uniform force field

Physical Review E
70 (2004) 051806/1 - 6

Cates M.E. ; Fuchs M. ; Kroy K. ; Poon W.C.K. ; Puertas A.M.

Theory and simulation of gelation, arrest and yielding in attracting colloids

Journal of Physics: Condensed Matter
16 (2004) S4861 - S4875

Pick R.M. ; Dreyfus C. ; Azzimani A. ; Gupta R. ; Torre R. ; Taschin A. ; Franosch T.

Heterodyne detected transient gratings in supercooled molecular liquids. A phenomenological theory

European Physical Journal B
39 (2004) 169 - 197

SF6 - Trace Elements**SF6.Analysis**

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

Detection of trace element and trace element-containing-proteins in the prostate

In: 5th international symposium on trace elements in human : new perspectives. October, 13. - 15. 2005, Athens, Greece
2005, 189 - 194

Kuehbacher M. ; Weseloh G. ; Falkenberg G. ; Kyriakopoulos A. ; Behne D.

Chemical imaging of trace elements with synchrotron light

In: 5th international symposium on trace elements in human : new perspectives. October, 13. - 15. 2005, Athens, Greece
2005, 843 - 847

Kühbacher M. ; Weseloh G. ; Thomzig A. ; Bertelsmann H. ; Falkenberg G. ; Radtke M. ; Riesemeier H. ; Kyriakopoulos A. ; Beekes M. ; Behne D.

Analysis and localization of metal- and metalloid-containing proteins by synchrotron radiation x-ray fluorescence spectrometry

X-Ray Spectrometry
34 (2005) 112 - 117

SF6.NAA

Bergomi M. ; Pellacani G. ; Vinceti M. ; Bassissi S. ; Malagoli C. ; Alber D. ; Sieri S. ; Vescovi L. ; Seidenari S. ; Vivoli R.

Trace elements and melanoma

Journal of Trace Elements in Medicine and Biology
19 (2005) 69 - 73

Görner W. ; Alber D. ; Berger A. ; Haase O. ; Monse G. ; Segebade, Chr.

BEAMGAA: A chance for high precision analysis of big samples

Journal of Radioanalytical and Nuclear Chemistry
263 (2005) 791 - 796

Vinceti M. ; Bassissi S. ; Malagoli C. ; Pellacani G. ; Alber D. ; Bergomi M. ; Seidenari S.

Environmental exposure to trace elements and risk of cutaneous melanoma

Journal of Exposure Analysis and Environmental Epidemiology
15 (2005) 458 - 462

SF6.Proteins

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

Selenium contents in equine semen and semen fractions and their relations with chromatin integrity and foal birthing rate

Animal Reproduction Science
89 (2005) 212 - 215

Bertelsmann H. ; Roesick U. ; Kyriakopoulos A. ; Hammadeh M. ; Behne, D.

Role of selenium and zinc in human sperm nuclei samples

In: 5th international symposium on trace elements in human : new perspectives. October, 13. - 15. 2005, Athens, Greece
2005, 39 - 44

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

Selenoproteins in microglial cells

In: Proceedings of the VII European Meeting on Glial Cell Function in Health and Disease : Amsterdam, The Netherlands, May 17-21, 2005
Medimond, Bologna, 2005, 59 - 64

Kyriakopoulos A. ; Grbavac I. ; Kühbacher M. ; Alber D. ; Behne D.

Characterisation of seleno-glycoproteins in the human plasma by antibodies and mass-spectroscopy

In: 5th international symposium on trace elements in human : new perspectives. October, 13. - 15. 2005, Athens, Greece
2005, 442 - 447

SF6 - Trace Elements**Addenda to 2004****SF6.Proteins**

Hoppe B. ; Kyriakopoulos A. ; Behne D.

Selenhaltige Proteine in einem Zellkultur-Modell der Blut-Hirnschranke

In: Metalloproteine und Metalloidproteine : analytische Aspekte, Redoxprozesse, antioxidative Schutzsysteme, Interaktion Metalle - Proteine, Pathobiochemie ; Berlin, 06. bis 08. November 2003, eds. Kyriakopoulos A. ; Behne D.

Wiss. Verl.-Ges., Stuttgart, 2004, 137 - 142

Kyriakopoulos A. ; Bukalis K. ; Roethlein D. ; Hoppe B. ; Graebert A. ; Behne, D.

Prevention against oxidative stress of eukaryotic cell membranes by selenium compounds of the rat

Annals of the New York Academy of Sciences

1030 (2004) 458 - 461

SF7 - Measurement instrumentation**SF7.Detector**

Alimov S. ; Buzzetti S. ; Gebauer B. ; Petrillo C. ; Sacchetti F. ; Schulz Ch. ; Wilpert Th.

Microstrip detectors with ^{157}Gd converters

Neutron News

16 (2005) 22 - 24

SF7.Others

Avriganu M. ; von Oertzen W. ; Fischer U. ; Avriganu V.

Analysis of deuteron elastic scattering on $^{6,7}\text{Li}$ up to 50 MeV

Nuclear Physics A

759 (2005) 327 - 341

Bürger A. ; Saito T. ; Al-Khatib A. ; Banu A. ; Beck T. ; Becker F. ; Bednarczyk P. ; Benzoni G. ; Bracco A. ; Bringel P. et al. ... Wheldon C. et al. ...

Relativistic Coulomb excitation of $^{54,56,58}\text{Cr}$

Acta Physica Polonica B

36 (2005) 1249 - 1252

Bürger A. ; Saito T.R. ; Grawe H. ; Hübel H. ; Reiter P. ; Gerl J. ; Gorska M. ; Wollersheim H.J. ; Al-Khatib A. ; Banu A. et al. ... Wheldon C. et al. ...

Relativistic Coulomb excitation of neutron-rich $^{54,56,58}\text{Cr}$: On the pathway of magicity from N=40 to N=32

Physics Letters B

622 (2005) 29 - 34

El-Masri H.M. ; Walker P.M. ; Dracoulis G.D. ; Kibedi T. ; Byrne A.P. ; Bruce A.M. ; Orce J.N. ; Emmanouilidis A. ; Cullen D.M. ; Wheldon C. ; Xu F.R.

High-K states in the odd-odd nuclide ^{180}Re

Physical Review C

72 (2005) 054306/1 - 22

Hammond G. ; Bentley M.A. ; Becker F. ; Grebosz J. ; Taylor M.J. ; Banu A. ; Barton C.J. ; Beck T. ; Bednarczyk P. ; Bracco A. ; et al. ... Wheldon C. et al. ...

Spectroscopy of T=3/2 mirror nuclei via two-step fragmentation using RISING

Acta Physica Polonica B

36 (2005) 1253 - 1257

Hübel H. ; Bürger A. ; Saito T.R. ; Grawe H. ; Reiter P. ; Gerl J. ; Gorska M. ; Wollersheim H.J. ; Al-Khatib A. ; Banu A. et al... Wheldon, C. et al...

Relativistic Coulomb excitation of neutron-rich $^{54,56,58}\text{Cr}$

In: Proceedings of the 21st Winter Workshop on Nuclear Dynamics, February 5 - 12, 2005, Breckenridge, Colorado, USA
2005

Keyes K.L. ; Papenberg A. ; Chapman R. ; Ollier J. ; Liang X. ; Burns M.J. ; Labiche M. ; Spohr K.-M. ; Amzal N. ; Beck C. ; Bednarczyk P. ; Haas F. ; Duchene G. ; Papka P. ; Gebauer B. ; Kokalova T. ; Thummerer S. ; von Oertzen W. ; Wheldon C.

Spectroscopy of Ne and Na isotopes: Preliminary results from a EUROBALL + Binary Reaction Spectrometer experiment

European Physical Journal A
25 [Suppl. 1] (2005) 431 - 432

Keyes K.L. ; Papenberg A. ; Chapman R. ; Ollier J. ; Liang X. ; Burns M.J. ; Labiche M. ; Spohr K.M. ; Amzal N. ; Beck C. ; Bednarczyk P. ; Haas F. ; Duchene G. ; Papka P. ; Gebauer B. ; Kokalova T. ; Thummerer S. ; von Oertzen W. ; Wheldon C.

Spectroscopy of Ne, Na and Mg isotopes approaching the Island of Inversion

Journal of Physics G
31 (2005) S1903 - S1906

Kokalova Tz. ; von Oertzen W. ; Torilov S. ; Thummerer S. ; Milin M. ; Tumino A. ; de Angelis G. ; Farnea E. ; Gadea A. ; Napoli D.R. ; Kröll Th. ; Marginean N. ; Martinez T. ; Axiotis M. ; Lenzi S.M. ; Ur C. ; Papka P. ; Rousseau M.

Emission of unbound ^8Be and $^{12}\text{C}^*(\text{O}^*_2)$ clusters in compound nucleus reactions

European Physical Journal A
23 (2005) 19 - 31

Regan P.H. ; Wheldon C. ; Yamamoto A.D. ; Valiente-Dobon J.J. ; Cline D. ; Wu C.Y. ; Macchiavelli A.O. ; Xu F.R. ; Smith J.F. ; Andgren K. ; Chakravarthy R.S. ; Cromaz M. ; Fallon P. ; Freeman S.J. ; Gorgen A. ; Hayes A. ; Hua H. ; Langdown S.D. ; Lee I.-Y. ; Pearson C.J. ; Podolyak Zs. ; Teng R.

Vibrational and rotational sequences in ^{101}Mo and $^{103,4}\text{Ru}$ studied via multinucleon transfer reactions

Acta Physica Polonica B
36 (2005) 1313 - 1322

Sanchez i Zafra I. ; Beck C. ; Haas F. ; Papka P. ; Rauch V. ; Rousseau M. ; Azaiez F. ; Bednarczyk P. ; Courtin S. ; Curien D. ; Dorvaux O. ; Nourreddine A. ; Robin J. ; Salsac M.-D. ; von Oertzen W. ; Gebauer B. ; Kokalova Tz. ; Thummerer S. ; Wheldon C. ; de Angelis G. ; Gadea A. ; Lenzi S. ; Napoli D.R. ; Szilner S. ; Catford W.N. ; Jenkins D.

Study of binary reaction channels in the $^{24}\text{Mg}+^{12}\text{C}$ collisions.

Ricerca Scientifica ed Educazione Permanente / Supplemento
124 (2005) 224 - 231

Taylor M.J. ; Hammond G. ; Bentley M.A. ; Becker F. ; Grebosz J. ; Banu A. ; Barton C.J. ; Beck T. ; Bednarczyk P. ; Bracco A. et al. ... Wheldon C. et al. ...

Spectroscopy of nuclei approaching the proton drip-line using a secondary-fragmentation technique with the RISING detector array

Journal of Physics G
31 (2005) S1527 - S1530

Wheldon C. ; Dracoulis G.D. ; Wilson A.N. ; Davidson P.M. ; Byrne A.P. ; Cullen D.M. ; Pattison L.K. ; Rigby S.V. ; Scholes D.T. ; Sletten G. ; Wood R.

Gamma-ray spectroscopy of the doubly-odd nuclide ^{184}Re

Nuclear Physics A
763 (2005) 1 - 30

Wheldon, C. ; Kokalova, Tz. ; von Oertzen, W. ; Thummerer, S. ; Bohlen, H.G. ; Gebauer, B. ; Tumino, A. ; Massey, T.N. ; de Angelis, G. ; Axiotis, M. ; Gadea, A. ; Kröll, Th. ; Marginean, N. ; Napoli, D.R. ; De Poli, M. ; Ur, C. ; Bazzacco, D. ; Lenzi, S.M. ; Rossi Alvarez, C. ; Lunardi, S. ; Menegazzo, R. ; Bizzeti, P.G. ; Bizzeti-Sona, A.M.

Octupole-deformed molecular bands in ^{21}Ne

European Physical Journal A
26 (2005) 321 - 326

SF7.Q3D

Bohlen H.G. ; Kalpakchieva R. ; von Oertzen W. ; Massey T.N. ; Ogloblin A.A. ; de Angelis G. ; Schulz Ch. ; Kokalova Tz. ; Wheldon C.

Structure studies of excited states of ^{17}C and ^{16}C

Journal of Physics G
31 (2005) S1461 - S1464

Khoa D.T. ; Bohlen H.G. ; von Oertzen W. ; Bartnitzky G. ; Blazevic A. ; Nuoffer F. ; Gebauer B. ; Mittig W. ; Rousset-Chomaz P.

Study of refractive structure in the inelastic $^{16}\text{O}+^{16}\text{O}$ scattering at the incident energies of 250 to 1120 MeV

Nuclear Physics A
759 (2005) 3 - 22

McEwan P. ; Freer M. ; Ashwood N. ; Curtis N. ; Price D. ; Ziman V. ; Bohlen H.G. ; Kokalova Tz. ; Schulz Ch. ; von Oertzen W. ; Wheldon C. ; Massey T.N. ; Kalpakchieva R. ; Catford W.

Investigation into the structure of ^{14}C using recoil co-incidence techniques

Journal of Physics G
31 (2005) S1921 - S1925

SF7 - Measurement instrumentation

Addenda to 2004

SF7.Others

Zhang Y.H. ; Podolyak Zs. ; de Angelis G. ; Gadea A. ; Ur C. ; Lunardi S. ; Marginean N. ; Rusu C. ; Schwengner R. ; Kröll Th. ; Napoli D.R. ; Menegazzo R. ; Bazzacco D. ; Farnea E. ; Lenzi S. ; Martinez T. ; Axiotis M. ; Tonev D. ; Gelletly W. ; Langdown S. ; Regan P.H. ; Valiente Dobon J.J. ; von Oertzen W. ; Rubio B. ; Quintana B. ; Medina N. ; Broda R. ; Bucurescu D. ; Ionescu-Bujor M. ; Iordachescu A.

Stability of the N=50 shell gap in the neutron-rich Rb, Br, Se, and Ge isotones

Physical Review C
70 (2004) 024301/1 - 10

SE - Solar Energy Research

SE1 - Silicon photovoltaics

SE1.Cells

Boehme C. ; Friedrich F. ; Ehara T. ; Lips K.

Recombination at silicon dangling bonds

Thin Solid Films

487 (2005) 132 - 136

Boehme C. ; Friedrich F. ; Lips K.

A pulsed EDMR study of charge trapping at P_b centers

In: Semiconductor defect engineering - materials, synthetic structures and devices : symposium held March 28 - April 1 2005, San Francisco, California, U.S.A., eds. Ashok S. [u.a.]

MRS, Warrendale, Pa., 2005, E11.31 - E11.3.6

Fenske F. ; Selle B. ; Birkholz M.

Preferred orientation and anisotropic growth in polycrystalline ZnO:Al films prepared by magnetron sputtering

Japanese Journal of Applied Physics, Part 2.

44 (21) (2005) L662 - L664

Friedrich F. ; Boehme C. ; Lips K.

Triplet recombination at P_b centers and its implications for capture cross sections

Applied Physics Letters

97 (2005) 056101/1 - 3

Fuhs W.

Silicon thin-film solar cells

In: Nanostructured and advanced materials for applications in sensors, optoelectronic and photovoltaic technology / proceedings ... Sozopol, Bulgaria, 6 - 17 September 2004, eds. Vaseashta A. [u.a.]

Springer, Dordrecht, 2005, 293 - 298

Fuhs W.

ZnO-window layers for solar cells

In: Zinc oxide : a material for micro- and optoelectronic applications / proceedings ... St. Petersburg, Russia, 23-25 June 2004, eds. Nickel N.H. [u.a.]

Springer, Dordrecht, 2005, 197 - 209

Fuhs W.

Geminate and non-geminate recombination in a-Si:H: old questions and new experiments

Journal of Optoelectronics and Advanced Materials

7 (2005) 1889 - 1897

Gall S. ; Schneider J. ; Klein J. ; Muske M. ; Rau B. ; Conrad E. ; Sieber I. ; Fuhs W. ; Van Gestel D. ; Gordon I. ; Van Nieuwenhuysen K. ; Carnel L. ; Beaucarne G. ; Poortmans J. ; Stöger-Pollach M. ; Schattschneider P.

Large-grained polycrystalline silicon thin-film solar cells using AIC SEED layers

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005

IEEE Operations Center, Piscataway, NJ, 2005, 975 - 978

Gall S. ; Schneider J. ; Klein J. ; Muske M. ; Rau B. ; Conrad E. ; Sieber I. ; Fuhs W. ; Van Gestel D. ; Gordon I. ; Van Nieuwenhuysen K. ; Carnel L. ; Irigoyen J. ; Beaucarne G. ; Poortmans J. ; Stöger-Pollach M. ; Schattschneider P. ; Wang Y. ; Van Der Biest O.

Development of polycrystalline silicon thin-film solar cells within the European project METEOR

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]

WIP-Renewable Energies, München, 2005, 869 - 872

Klein J. ; Schneider J. ; Muske M. ; Heimbürger R. ; Gall S. ; Fuhs W.

Aluminium-induced crystallisation of amorphous silicon: parameter variation for optimisation of the process

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005
IEEE Operations Center, Piscataway, NJ, 2005, 1197 - 1200

Lips K. ; Boehme C. ; Ehara T.

The impact of the electron spin on charge carrier recombination - the example of amorphous silicon

Journal of Optoelectronics and Advanced Materials
7 (1) (2005) 13 - 24

Maydell K.v. ; Brehme S. ; Nickel N.H. ; Fuhs W.

Electronic transport in P-doped laser-crystallized polycrystalline silicon

Thin Solid Films
487 (2005) 93 - 96

Nickel N.H.

Influence of the hydrogen concentration on H bonding in zinc oxide

In: Zinc oxide : a material for micro- and optoelectronic applications / proceedings ... St. Petersburg, Russia, 23-25 June 2004, eds. Nickel N.H. [u.a.]
Springer, Dordrecht, 2005, 145 - 155

Nickel N.H.

Wasserstoffbindung in ZnO

In: TCO für Dünnschichtsolarzellen und andere Anwendungen III : Workshop 10. - 12.04.2005 in Freyburg / Unstrut
Forschungsverbund Sonnenenergie c/o Hahn-Meitner-Institut, Berlin, 2005, 126 - 128

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

Vibrational spectroscopy of undoped and nitrogen-doped ZnO grown by metalorganic chemical vapor deposition

Applied Physics Letters
87 (2005) 211905/1 - 3

Nickel N.H. ; Terokov E. [Hrsg.]

Zinc oxide : a material for micro- and optoelectronic applications / proceedings ... St. Petersburg, Russia, 23-25 June 2004. 240 S.

(NATO science series. Series 2, Mathematics, physics, and chemistry ; 194)
Springer, Dordrecht, 2005

Nickel N.H. [u.a.] [Guest Eds.]

Polycrystalline Semiconductors VIII. Proceedings of the Eighth International Conference, Potsdam, Germany, September 5-10, 2004

2005

Petter K. ; Sieber I. ; Rau B. ; Brehme S. ; Lips K. ; Fuhs W.

Structural defects and photoluminescence of epitaxial Si films grown at low temperatures

Thin Solid Films
487 (2005) 137 - 141

Rau B. ; Klein J. ; Schneider J. ; Conrad E. ; Sieber I. ; Stöger-Pollach M. ; Schattschneider P. ; Gall S. ; Fuhs W.

Polycrystalline Si thin-film solar cells on glass by epitaxial thickening of seed layers using ECRCVD

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]
WIP-Renewable Energies, München, 2005, 1067 - 1070

Rau B. ; Petter K. ; Brehme S. ; Sieber I. ; Stöger-Pollach M. ; Schattschneider P. ; Lips K. ; Gall S. ; Fuhs W.
Low-temperature epitaxy for thin-film silicon solar cells by ECRCVD - structural and electronic properties

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005
IEEE Operations Center, Piscataway, NJ, 2005, 1123 - 1126

Rau B. ; Schneider J. ; Conrad E. ; Gall S. ; Fuhs W.

Polycrystalline Si thin-film solar cells with absorber layers grown at temperatures below 600°C by ECRCVD

In: Technical digest / 15th International Photovoltaic Science and Engineering Conference (PVSEC-15) : October 10 - 15, 2005, Shanghai, China
Shanghai Jiao Tong Univ., Shanghai, 2005, 778 - 779

Saleh R. ; Nickel N.H.

Raman spectroscopy of doped and compensated laser crystallized polycrystalline silicon thin films

Surface & Coatings Technology
198 (2005) 143 - 147

Saleh R. ; Nickel N.H. ; Maydell K.V.

Influence of laser annealing on hydrogen bonding in compensated polycrystalline silicon thin films

Thin Solid Films
487 (2005) 89 - 92

Schneider J. ; Heimbürger R. ; Klein J. ; Muske M. ; Gall S. ; Fuhs W.

Aluminum-induced crystallization of amorphous silicon: Influence of temperature profiles

Thin Solid Films
487 (2005) 107 - 112

Schneider J. ; Klein J. ; Muske M. ; Gall S. ; Fuhs W.

Depletion regions in the aluminum-induced layer exchange process crystallizing amorphous Si

Applied Physics Letters
87 (2005) 031905/1 - 3

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

Suppression of nucleation during the aluminum-induced layer exchange process

In: Amorphous and nanocrystalline silicon science and technology - 2005 : symposium held March 28 - April 1, 2005, San Francisco, California, U.S.A.
MRS, Warrendale, Pa., 2005, A2.2.1 - A2.2.6

Stöger-Pollach M. ; Walter T. ; Eyidi D. ; Schneider J. ; Gall S.

The role of an alumina membrane and its phase transformations during the layer exchange process

In: Proceedings / Microscopy conference 2005 ; 6. Dreiländertagung : August 28 - September 2, 2005, Davos 2005, 86

Wang Y. ; Van Der Biest O. ; Gordon I. ; Van Gestel D. ; Beaucarne G. ; Poortmans J. ; Stöger-Pollach M. ; Schattschneider P. ; Gall S.

Antimony induced crystallisation of amorphous silicon

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]
WIP-Renewable Energies, München, 2005, 1179 - 1181

Weizman M. ; Nickel N.H. ; Sieber I. ; Bohne W. ; Röhrich J. ; Strub E. ; Yan B.

Phase segregation in laser crystallized polycrystalline SiGe thin films

Thin Solid Films
487 (2005) 72 - 76

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

Formation of a miscibility gap in laser-crystallized poly-SiGe thin films

In: Amorphous and nanocrystalline silicon science and technology - 2005 : symposium held March 28 - April 1, 2005, San Francisco, California, U.S.A.

MRS, Warrendale, Pa., 2005, A2.5.1 - A2.5.6

Würz R. ; Meeder A. ; Fuertes Marrón D. ; Schedel-Niedrig Th. ; Lips K.

An electron paramagnetic resonance and photoelectron spectroscopy study on the native oxidation of CuGaSe₂

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1, 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]

MRS, Warrendale, Pa., 2005, F5.36.1 - F5.36.6

SE1.Hetero

Angermann H.

Interface state densities and surface charge on wet-chemically prepared Si(100) surfaces

Solid State Phenomena

103-104 (2005) 23 - 26

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

Efficient silicon heterojunction solar cells on n-type and p-type substrates processed at low temperatures

In: Technical digest / 15th International Photovoltaic Science and Engineering Conference (PVSEC-15) : October 10 - 15, 2005, Shanghai, China

Shanghai Jiao Tong Univ., Shanghai, 2005, 881 - 882

Maydell K. v. ; Schmidt M. ; Korte L. ; Laades A. ; Conrad E. ; Stangl R. ; Scherff M. ; Fuhs W.

Basic electronic properties and optimization of TCO/a-Si:H(n)/c-Si(p) hetero solar cells

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005

IEEE Operations Center, Piscataway, NJ, 2005, 1225 - 1228

Maydell K. v. ; Windgassen H. ; Nositschka W.A. ; Rau U. ; Rostan P.J. ; Henze J. ; Schmidt J. ; Scherff M. ; Fahrner W. ; Borchert D. ; Tardon S. ; Brüggemann R. ; Stiebig H. ; Schmidt M.

Basic electronic properties and technology of TCO/a-Si:H(n)/c-Si(p) heterostructure solar cells: a german network project

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]

WIP-Renewable Energies, München, 2005, 822 - 825

Rappich J. ; Fahoume M.

Nonradiative recombination and band bending of p-Si(100) surfaces during electrochemical deposition of polycrystalline ZnO

Thin Solid Films

487 (2005) 157 - 161

Rappich J. ; Hartig P. ; Nickel N.H. ; Sieber I. ; Schulze S. ; Dittrich Th.

Stable electrochemically passivated Si surfaces by ultra thin benzene-type layers

Microelectronic Engineering

80 (2005) 62 - 65

Schaffarzik D. ; Stangl R. ; Laades A. ; Schubert C. ; Schmidt M.

Recombination analysis at the n-doped a-Si:H(n)/c-Si(p) heterojunction by means of time and intensity dependent surface photovoltage

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]

WIP-Renewable Energies, München, 2005, 1224 - 1227

Schmidt M. ; Korte L. ; Laades A. ; Stangl R. ; Maydell, K. v.

Electronic key quantities of a-Si:H (n,p)/ C-Si (p,n) heterostructure solar cells

In: Technical digest / 15th International Photovoltaic Science and Engineering Conference (PVSEC-15) : October 10 - 15, 2005, Shanghai, China
Shanghai Jiao Tong Univ., Shanghai, 2005, 995 - 996

Stangl R. ; Kriegel M. ; Maydell K. v. ; Schmidt M. ; Fuhs W.

AFORS-HET, an open-source on demand numerical PC program for simulation of (thin film) heterojunction solar cells, Version 1.2

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005
IEEE Operations Center, Piscataway, NJ, 2005, 1556 - 1559

Stangl R. ; Kriegel M. ; Schaffarzik D. ; Schmidt M.

AFORS-HET, Version 2.1, a numerical computer program for simulation of (thin film) heterojunction solar cells

In: Technical digest / 15th International Photovoltaic Science and Engineering Conference (PVSEC-15) : October 10 - 15, 2005, Shanghai, China
Shanghai Jiao Tong Univ., Shanghai, 2005, 985 - 986

Stangl R. ; Kriegel M. ; Schmidt M.

AFORS-HET, a numerical PC program for simulation of (thin film) heterojunction solar cells, Version 2.0 (open-source on demand), to be distributed for public use

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]
WIP-Renewable Energies, München, 2005, 814 - 817

Stangl R. ; Schaffarzik D. ; Rudigier E. ; Schmidt M.

Intensity dependent surface photovoltage used for interface characterization of c-Si surfaces and a-Si:H/c-Si heterojunctions

In: Technical digest / 15th International Photovoltaic Science and Engineering Conference (PVSEC-15) : October 10 - 15, 2005, Shanghai, China
Shanghai Jiao Tong Univ., Shanghai, 2005, 993 - 994

SE1.Others

Gensch M. ; Roodenko K. ; Hinrichs K. ; Hunger R. ; Güell A.G. ; Merson A. ; Schade U. ; Shapira Y. ; Dittrich Th. ; Rappich J. ; Esser N.

Molecule-solid interfaces studied with infrared ellipsometry: ultrathin nitrobenzene films

Journal of Vacuum Science and Technology B
23 (2005) 1838 - 1842

Kerst U. ; Sadewater P. ; Schlangen R. ; Boit C. ; Leihkauf R. ; Simmnacher B. ; Lundquist T. ; Le Roy E.

Contacting diffusion with FIB for backside circuit edit - procedures and material analysis

In: Conference proceedings from the 31st International Symposium for Testing and Failure Analysis : 6 - 10 November 2005, San Jose, California
2005, 64 - 69

San Andrés E. ; del Prado A. ; Mártel I. ; González-Díaz G. ; Bohne W. ; Röhrich J. ; Selle B. ; Sieber I. ; Fernández M.

Oxygen to silicon ratio determination of SiO_xH_y thin films

Thin Solid Films
492 (2005) 232 - 235

Tanaka S. ; Yamamoto A. ; Makiuchi S. ; Matsuyama T. ; Rebien M. ; Henrion W. ; Tatsuoka H. ; Tanaka M. ; Liu Z.-Q. ; Kuwabara H.

Growth and morphological properties of β-FeSi₂ layers

Applied Surface Science
244 (2005) 326 - 329

SE2.Concepts

Aggour M. ; Dittrich Th. ; Belaidi A. ; Sieber I. ; Rappich J.

Anodic preparation of porous TiO₂ in fluoride solution

Physica Status Solidi C

2 (2005) 3344 - 3348

Gavrilov S. ; Nosova L. ; Sieber I. ; Belaidi A. ; Dloczik L. ; Dittrich Th.

Synthesis of semiconductor nanowires by pulsed current electrodeposition of metal with subsequent sulfurization

Physica Status Solidi A

202 (2005) 1497 - 1501

Lévy-Clément C. ; Lust S. ; Mamor M. ; Rappich J. ; Dittrich Th.

Investigation of p-type macroporous silicon formation

Physica Status Solidi A

202 (2005) 1390 - 1395

SE2.Integration

Klenk R. ; Linke M. ; Angermann H. ; Kelch C. ; Kirsch M. ; Klaer J. ; Köble Ch.

Die Stabilität von ZnO bei beschleunigter Alterung

In: TCO für Dünnschichtsolarzellen und andere Anwendungen III : Workshop 10. - 12.04.2005 in Freyburg / Unstrut, eds. Ellmer K. ; Stadermann G.

Forschungsverbund Sonnenenergie c/o Hahn-Meitner-Institut, Berlin, 2005, 79 - 82

SE2 - Heterogeneous material systems

SE1.Cells

Würz R. ; Meeder A. ; Fuertes Marrón D. ; Schedel-Niedrig Th. ; Lips K.

An electron paramagnetic resonance and photoelectron spectroscopy study on the native oxidation of CuGaSe₂

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1. 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]

MRS, Warrendale, Pa., 2005, F5.36.1 - F5.36.6

SE1.Hetero

Rappich J. ; Hartig P. ; Nickel N.H. ; Sieber I. ; Schulze S. ; Dittrich Th.

Stable electrochemically passivated Si surfaces by ultra thin benzene-type layers

Microelectronic Engineering

80 (2005) 62 - 65

SE2.Analytics

Bär M. ; Lehmann S. ; Rusu M. ; Grimm A. ; Kötschau I. ; Lauermann I. ; Pistor P. ; Sokoll S. ; Schedel-Niedrig Th. ; Lux-Steiner M.Ch. ; Fischer Ch.-H. ; Weinhardt L. ; Heske C. ; Jung Ch.

Cd²⁺/NH₃ treatment-induced formation of a CdSe surface Layer on CuGaSe₂ thin-film solar cell absorbers

Applied Physics Letters

86 (2005) 222107/1 - 3

Bär M. ; Reichardt J. ; Grimm A. ; Kötschau I. ; Lauermann I. ; Rahne K. ; Sokoll S. ; Lux-Steiner M.C. ; Fischer Ch.-H. ; Weinhardt L. ; Umbach E. ; Heske C. ; Jung Ch. ; Niesen T.P. ; Visbeck S.

Zn(O,OH) layers in chalcopyrite thin-film solar cells: Valence-band maximum versus composition

Journal of Applied Physics

98 (2005) 053702/1 - 8

Bär M. ; Rusu M. ; Lehmann S. ; Sokoll S. ; Grimm A. ; Kötschau I.M. ; Lauermann I. ; Pistor P. ; Weinhardt L. ; Fuchs O. ; Heske C. ; Jung Ch. ; Gudat W. ; Schedel-Niedrig Th. ; Lux-Steiner M.C. ; Fischer Ch.-H.

Cd²⁺/NH₃-treatment of high-gap CuGaSe₂ thin film solar cell absorbers

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005

IEEE Operations Center, Piscataway, NJ, 2005, 307 - 310

Bär M. ; Weinhardt L. ; Heske C. ; Muffler H.-J. ; Lux-Steiner M.Ch. ; Umbach E. ; Fischer Ch.-H.

Cd²⁺/NH₃ treatment of Cu(In,Ga)(S,Se)₂ thin-film solar cell absorbers: a model for the performance-enhancing processes in the partial electrolyte

Progress in Photovoltaics: Research and Applications

13 (2005) 571 - 577

Doka S. ; Rusu M. ; Meeder A. ; Arushanov E. ; Fabre N. ; Fiechter S. ; Schedel-Niedrig Th. ; Lux-Steiner M.Ch.

Effects of Ge-implantation on the photoluminescence of CuGaSe₂ thin films

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1, 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]

MRS, Warrendale, PA., 2005, F5.27.1 - F.5.27.5

Glatzel Th. ; Hoppe H. ; Sariciftci N.S. ; Lux-Steiner M.Ch. ; Komiyama M.

Kelvin probe force microscopy study of conjugated polymer/fullerene organic solar cells

Japanese Journal of Applied Physics

44 (7B) (2005) 5370 - 5373

Glatzel Th. ; Rusu M. ; Sadewasser S. ; Lux-Steiner M.Ch.

A Kelvin probe force microscopy study of the PVD-CdS/Cu(In,Ga)Se₂ interface formation in high efficient thin film solar cells

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]

WIP-Renewable Energies, München, 2005, 1839 - 1842

Glatzel Th. ; Steigert H. ; Sadewasser S. ; Klenk R. ; Lux-Steiner M.Ch.

Potential distribution of Cu(In,Ga)(S,Se)₂-solar cell cross-sections measured by Kelvin probe force microscopy

Thin Solid Films

480-481 (2005) 177 - 182

Grimm A. ; Klenk R. ; Lauermann I. ; Bär M. ; Lux-Steiner M.Ch. ; Niessen T.P. ; Visbeck S.

Alternative Fensterstruktur für Chalkopyrit-Dünnschichtsolarzellen

In: TCO für Dünnschichtsolarzellen und andere Anwendungen III : Workshop 10. - 12.04.2005 in Freyburg / Unstrut, eds. Ellmer K. ; Stadermann G.

Forschungsverbund Sonnenenergie c/o Hahn-Meitner-Institut, Berlin, 2005, 122 - 125

Hoppe H. ; Glatzel T. ; Niggemann M. ; Hinsch A. ; Lux-Steiner M.Ch. ; Sariciftci N.S.

Kelvin probe force microscopy study on conjugated polymer/fullerene bulk heterojunction organic solar cells

Nano Letters

5 (2) (2005) 269 - 274

Lauermann I. ; Pistor P. ; Kötschau I. ; Bär M.

Synchrotron-based spectroscopy for the characterization of surfaces and interfaces in chalcopyrite solar cells

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1. 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]
MRS, Warrendale, PA., 2005, F2.1.1 - F2.1.11

Reichardt J. ; Bär M. ; Grimm A. ; Kötschau I. ; Lauermann I. ; Sokoll S. ; Lux-Steiner M.C. ; Fischer Ch.-H. ; Heske C. ; Weinhardt L. ; Fuchs O. ; Jung Ch. ; Gudat W. ; Niesen T.P. ; Karg F.

Inducing and monitoring photoelectrochemical reactions at surfaces and buried interfaces in Cu(In,Ga)(S,Se)₂ thin-film solar cells

Applied Physics Letters
86 (2005) 172102/1 - 3

Rusu M. ; Glatzel Th. ; Kaufmann C.A. ; Neisser A. ; Siebentritt S. ; Sadewasser S. ; Schedel-Niedrig Th. ; Lux-Steiner M.Ch.

High-efficient ZnO/PVD-CdS/Cu(In,Ga)Se₂ thin film solar cells: formation of the buffer-absorber interface and transport properties

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1. 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]
MRS, Warrendale, PA., 2005, F14.25.1 - F14.25.7

Rusu M. ; Glatzel Th. ; Neisser A. ; Kaufmann C.A. ; Sadewasser S. ; Lux-Steiner M.Ch

High-efficient ZnO/PVD-CdS/Cu(In,Ga)Se₂ thin film solar cells: preparation and new insights in the heterojunction electronic structure

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]
WIP-Renewable Energies, München, 2005, 1815 - 1818

Schwarzman A. ; Grunbaum E. ; Strassburg E. ; Lepkifker E. ; Boag A. ; Rosenwaks Y. ; Glatzel Th. ; Barkay Z. ; Mazzer M. ; Barnham K.

Nanoscale potential distribution across multiquantum well structures: Kelvin probe force microscopy and secondary electron imaging

Journal of Applied Physics
98 (2005) 084310/1 - 4

Würz R. ; Rusu M. ; Schedel-Niedrig Th. ; Lux-Steiner M.Ch. ; Bluhm H. ; Hävecker M. ; Kleimenov E. ; Knop-Gericke A. ; Schlögl R.

In-situ X-ray photoelectron spectroscopy study of the oxidation of CuGaSe₂

Surface Science
580 (2005) 80 - 94

SE2.Chemistry

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

Spray-ILGAR indium sulfide buffers for Cu(In,Ga)(S,Se)₂ solar cells

Progress in Photovoltaics: Research and Applications
13 (2005) 607 - 616

Bär M. ; Bloeck U. ; Muffler H.-J. ; Lux-Steiner M.C. ; Fischer Ch.-H. ; Giersig M. ; Niesen T.P. ; Karg F.

Cd²⁺/NH₃-treatment of Cu(In,Ga)(S,Se)₂: impact on the properties of ZnO layers deposited by the ion layer gas reaction method

Journal of Applied Physics
97 (2005) 014905/1 - 8

Bär M. ; Muffler H.-J. ; Allsop N. ; Fischer Ch.-H.

Thin films prepared by ion layer gas reaction (ILGAR)

Recent Research Developments in Crystal Growth
4 (2005) 211 - 250

Ennaoui A. ; Bär M. ; Klaer J. ; Kropp T. ; Saez-Araoz R. ; Lux-Steiner M.C.

New chemical route for the deposition of ZnS buffer layers: Cd-free CuInS₂-based thin film solar cells with efficiencies above 11%

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]
WIP-Renewable Energies, München, 2005, 1882 - 1885

Moorthy Babu S. ; Ennaoui A. ; Lux-Steiner M.Ch.

Composition and growth procedure-dependent properties of electrodeposited CuInSe₂ thin films

Journal of Crystal Growth
275 (2005) e1241 - e1246

Muffler H.-J. ; Müller F. ; Lux-Steiner M.C. ; Fischer Ch.-H.

Optical analysis of nanocrystalline thin layers deposited by the ion layer gas reaction method

Journal of Applied Physics
97 (2005) 014310/1 - 6

Sankapal B.R. ; Ennaoui A. ; Guminskaya T. ; Dittrich Th. ; Bohne W. ; Röhrich J. ; Strub E. ; Lux-Steiner M.Ch.

Characterization of p-CuI prepared by the SILAR technique on Cu-tape/n-CuInS₂ for solar cells

Thin Solid Films
480-481 (2005) 142 - 146

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

Synthesis and characterization of anatase-TiO₂ thin films

Applied Surface Science
239 (2005) 165 - 170

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

Preparation of nanocrystalline ZnS by a new chemical bath deposition route

Thin Solid Films
480-481 (2005) 168 - 172

SE2.Concepts

Aggour M. ; Dittrich Th. ; Belaidi A. ; Sieber I. ; Rappich J.

Anodic preparation of porous TiO₂ in fluoride solution

Physica Status Solidi C
2 (2005) 3344 - 3348

Dittrich Th. ; Muffler H.-J. ; Vogel M. ; Guminskaya T. ; Ogacho A. ; Belaidi A. ; Strub E. ; Bohne W. ; Röhrich J. ; Hilt O. ; Lux-Steiner M.Ch.

Passivation of TiO₂ by ultra-thin Al-oxide

Applied Surface Science
240 (2005) 236 - 243

Dittrich Th. ; Zinchuk V. ; Skryshevskyy V. ; Urban I. ; Hilt O.

Electrical transport in passivated Pt/TiO₂/Ti Schottky diodes

Journal of Applied Physics
98 (2005) 104501/1 - 6

Gavrilov S. ; Nosova L. ; Sieber I. ; Belaidi A. ; Dloczik L. ; Dittrich Th.

Synthesis of semiconductor nanowires by pulsed current electrodeposition of metal with subsequent sulfurization

Physica Status Solidi A
202 (2005) 1497 - 1501

Gayvoronsky V. ; Galas A. ; Shepelyavyy E. ; Dittrich Th. ; Timoshenko V.Yu. ; Nepijko S.A. ; Brodyn M.S. ; Koch F.

Giant nonlinear optical response of nanoporous anatase layers

Applied Physics B
80 (2005) 97 - 100

Johnev B. ; Vogel M. ; Fostiropoulos K. ; Mertesacker B. ; Rusu M. ; Lux-Steiner M.-C. ; Weidinger A.

Monolayer passivation of the transparent electrode in organic solar cells

Thin Solid Films
488 (2005) 270 - 273

Lévy-Clément C. ; Lust S. ; Mamor M. ; Rappich J. ; Dittrich Th.

Investigation of p-type macroporous silicon formation

Physica Status Solidi A
202 (2005) 1390 - 1395

Mora-Seró I. ; Dittrich Th. ; Belaidi A. ; Garcia-Belmonte G. ; Bisquert J.

Observation of diffusion and tunneling recombination of dye-photoinjected electrons in ultrathin TiO₂ layers by surface photovoltage transients

Journal of Physical Chemistry B
109 (2005) 14932 - 14938

Rühle S. ; Dittrich Th.

Investigation of the electric field in TiO₂/FTO junctions used in dye-sensitized solar cells by photocurrent transients

Journal of Physical Chemistry B
109 (2005) 9522 - 9526

Rusu M. ; Johnev B. ; Streicher F. ; Barreau N. ; Vogel M. ; Glatzel Th. ; Sadewasser S. ; Lux-Steiner M.Ch. ; Fostiropoulos K.

Work function homogeneity of monolayer passivated ITO surfaces for organic solar cells

In: Frontiers in Optics 2005 ; Laser Science XXI ; the 89th OSA Annual Meeting; Tucson, USA, October 16-20, 2005. Technical Digest
2005, SMA3

Ryasnyansky A.I. ; Ganeev R.A. ; Redkorechev V.I. ; Usmanov T. ; Priebe G. ; Fostiropoulos K.

Competition of third- and fifth- order non-linear optical processes in C₆₀ thin film

Fullerenes, Nanotubes and Carbon Nanostructures
13 (2005) 131 - 140

SE2.Contacts

Fuertes Marrón D. ; Meeder A. ; Sadewasser S. ; Würz R. ; Kaufmann C.A. ; Glatzel Th. ; Schedel-Niedrig Th. ; Lux-Steiner M.Ch.

Lift-off process and rear-side characterization of CuGaSe₂ chalcopyrite thin films and solar cells

Journal of Applied Physics
97 (2005) 094915/1 - 7

Fuertes Marrón D. ; Sadewasser S. ; Meeder A. ; Glatzel Th. ; Lux-Steiner M.Ch.

Electrical activity at grain boundaries of Cu(In,Ga)Se₂ thin films

Physical Review B
71 (2005) 033306/1 - 4

Fuertes-Marron D. ; Meeder A. ; Lehmann S. ; Rusu M. ; Schedel-Niedrig Th. ; Lux-Steiner M.Ch.

Improved CuGaSe₂-based solar cell performance by In-S surface treatments

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005
IEEE, Piscataway, NJ, 2005, 303 - 306

Papathanasiou O. ; Siebentritt S. ; Lauermann I. ; Hahn T. ; Metzner H. ; Lux-Steiner M.Ch.

Band offsets at the ZnSe/CuInS₂ interface

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1. 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]
MRS, Warrendale, Pa., 2005, F5.21.1 - F5.21.6

SE2.Integration

Kaufmann C.A. ; Klenk R. ; Lux-Steiner M.C. ; Neisser A. ; Körber P. ; Scheer R. ; Schock H.-W.

Towards a flexible, Cu(In,Ga)Se₂ based, thin film solar cell module

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]
WIP-Renewable Energies, München, 2005, 1729 - 1731

Klaer J. ; Klenk R. ; Boden A. ; Neisser A. ; Kaufmann C. ; Scheer R. ; Schock H.-W.

Damp heat stability of chalcopyrite mini-modules: evaluation of specific test structures

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005
IEEE, Piscataway, NJ, 2005, 336 - 339

Klaer J. ; Klenk R. ; Köble C. ; Boden A. ; Scheer, R. ; Schock H.W.

Stability issues of chalcopyrite photovoltaic devices

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]
WIP-Renewable Energies, München, 2005, 1914 - 1917

Klenk R. ; Linke M. ; Angermann H. ; Kelch C. ; Kirsch M. ; Klaer J. ; Köble Ch.

Die Stabilität von ZnO bei beschleunigter Alterung

In: TCO für Dünnschichtsolarzellen und andere Anwendungen III : Workshop 10. - 12.04.2005 in Freyburg / Unstrut, eds. Ellmer K. ; Stadermann G.
Forschungsverbund Sonnenenergie c/o Hahn-Meitner-Institut, Berlin, 2005, 79 - 82

Scheer R. ; Klaer J. ; Klenk R. ; Lux-Steiner M.Ch. ; Schock H.-W. ; Meyer N. ; Luck I. ; Rühle U.

Towards thin film module production using a simplified CIS process

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005
IEEE Operations Center, Piscataway, NJ, 2005, 219 - 222

SE2.Others

Kaufmann C.A. ; Neisser A. ; Klenk R. ; Scheer R. ; Schock H.-W.

Design of a window layer for flexible Cu(In,Ga)Se₂ thin film solar cell devices

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1. 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]
MRS, Warrendale, Pa, 2005, F7.5.1 - F7.5.6

SE2.Semico

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

Defect band transport in p-type CuGaSe₂

Journal of Physics: Condensed Matter
17 (2005) 2699 - 2704

Babu S.M. ; Meeder A. ; Fuertes-Marron D. ; Schedel-Niedrig T. ; Havecker M. ; Knop-Gericke A. ; Lux-Steiner M.Ch.

Thermal stability and environmental effects on CuGaSe₂ thin film solar cells

Journal of Crystal Growth
275 (2005) e1235 - e1240

Bakehe S. ; Karen A. ; Kaigawa R. ; Klenk R. ; Lux-Steiner M.Ch.

Band gap grading in multi-source evaporated Cu(In,Ga)S₂ thin films

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]

WIP-Renewable Energies, München, 2005, 1767 - 1770

Deniozou Th. ; Esser N. ; Siebentritt S.

The CuGaSe₂ (001) surface: a (4 × 1) reconstruction

Surface Science

579 (2005) 100 - 106

Deniozou Th. ; Esser N. ; Siebentritt S. ; Vogt P. ; Hunger R.

Surface structure of CuGaSe₂ (001)

Thin Solid Films

480-481 (2005) 382 - 387

Fuertes Marron D. ; Lehmann S. ; Doka S. ; Schedel-Niedrig Th. ; Lux-Steiner M.Ch.

Surface treatments of CuGaSe₂ by means of (In,Ga)-S

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]

WIP-Renewable Energies, München, 2005, 1878 - 1881

Fuertes Marrón D. ; Lehmann S. ; Schedel-Niedrig Th. ; Klaer J. ; Klenk R. ; Lux-Steiner M.Ch.

Band gap and interface engineering of wide gap Cu-containing chalcopyrite absorbers by dry (In,Ga)-S surface treatments

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1. 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]

MRS, Warrendale, PA., 2005, F16.21 - F16.2.6

Hahn Th. ; Metzner H. ; Cieslak J. ; Eberhardt J. ; Reislöhner U. ; Kräußlich J. ; Wunderlich F. ; Siebentritt S. ; Witthuhn W.

Epitaxial Cu(In,Ga)S₂ thin film solar cells

Journal of Physics and Chemistry of Solids

66 (2005) 1899 - 1902

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

The effect of sulphur pressure on the depth distribution of elements in Cu(In,Ga)S₂ films

Thin Solid Films

480-481 (2005) 71 - 75

Klenk R. ; Klaer J. ; Scheer R. ; Lux-Steiner M.Ch. ; Luck I. ; Meyer N. ; Rühle U.

Solar cells based on CuInS₂--an overview

Thin Solid Films

480-481 (2005) 509 - 514

Metzner H. ; Dietz A. ; Gossila M. ; Reislöhner U. ; Rega N. ; Siebentritt S. ; Hahn Th. ; Witthuhn W.

Admittance spectroscopy of polycrystalline and epitaxially grown CuGaSe₂

Journal of Physics and Chemistry of Solids

66 (2005) 1940 - 1943

Rega N. ; Siebentritt S. ; Albert J. ; Nishiwaki S. ; Zajogin A. ; Lux-Steiner M.Ch. ; Kniese R. ; Romero M.J.

Excitonic luminescence in Cu(In,Ga)Se₂

Thin Solid Films

480-481 (2005) 286 - 290

Rusu M. ; Doka S. ; Kaufmann C.A. ; Grigorieva N. ; Schedel-Niedrig Th. ; Lux-Steiner M.Ch.

Solar cells based on CCSVT-grown CuGaSe₂ - absorber and device properties

Thin Solid Films

480-481 (2005) 341 - 346

Shafarman W. ; Gessert T. ; Niki S. ; Siebentritt S. [Eds.]

Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1, 2005, San Francisco, California, U.S.A.

(Materials Research Society symposium proceedings ; 865)
MRS, Warrendale, Pa., 2005

Siebentritt S.

Hole transport mechanisms in CuGaSe₂

Thin Solid Films
480-481 (2005) 312 - 317

Siebentritt S. ; Beckers I. ; Riemann T. ; Christen J. ; Hoffmann A. ; Dworzak M.

Reconciliation of luminescence and Hall measurements on the ternary semiconductor CuGaSe₂

Applied Physics Letters
86 (2005) 091909/1 - 3

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

Photoluminescence excitation spectroscopy of a highly compensated CuGaSe₂

Physica Status Solidi B
242 (2005) 2627 - 2632

SE3.Others

Kaufmann C.A. ; Neisser A. ; Klenk R. ; Scheer R.

Transfer of Cu(In,Ga)Se₂ thin film solar cells to flexible substrates using an in situ process control

Thin Solid Films
480-481 (2005) 515 - 519

Neisser A. ; Kaufmann C.A. ; Klenk R. ; Scheer R. ; Kroon M.A. ; Oomen G. ; Schock H.-W.

Prototype development - flexible Cu(In,Ga)Se₂ thin film solar cells for space applications

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005
IEEE, Piscataway, NJ, 2005, 227 - 230

Neisser A. ; Kaufmann C.A. ; Klenk R. ; Scheer R. ; Schock H.W. ; Kroon M.A. ; Oomen G. ; Herrmann D. ; Kessler F. ; Powalla M.

Flexible solar cells for space: a new development based on chalcopyrite thin films

In: Proceedings of the Seventh European Space Power Conference; 9 -13 May 2005, Stresa, Italy, eds. Wilson A.
ESA Publications Division, Noordwijk, 2005

SE5.Interfaces

Wilhelm T. ; Berenguier B. ; Aggour M. ; Skorupska K. ; Kanis M. ; Winkelkemper M. ; Klaer J. ; Kelch C. ; Lewerenz H.-J.

8% efficient CuInS₂ solar cells by electrochemically removed Cu-S phases

Thin Solid Films
480-481 (2005) 24 - 28

SE2 - Heterogeneous material systems**Addenda to 2004****SE2.Chemistry**

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

Chemical processes during Cd²⁺/NH₃-treatment of Cu(In,Ga)(S,Se)₂-absorbers

In: Technical Digest. 14th International Photovoltaic Science and Engineering Conference 26-30 January 2004. Bangkok, Thailand. PVSEC-14
2004, 521 - 522

Muffler H.-J. ; Bär M. ; Lux-Steiner M.C. ; Fischer Ch.-H. ; Niesen T.P. ; Karg F.

Colloid fixation by an ILGAR-layer: the use of fluorescing layers to increase quantum efficiency of solar cells in the blue wavelength region

In: Technical Digest. 14th International Photovoltaic Science and Engineering Conference 26-30 January 2004. Bangkok, Thailand. PVSEC-14
2004, 703 - 704

SE2.Concepts

Ganeev R.A. ; Ryasnyansky A.I. ; Redkorechev V.I. ; Fostiropoulos K. ; Priebe G. ; Usmanov T.

Nonlinear-optical parameters of thin C₆₀ films at 532 nm

Quantum Electronics
34 (2004) 81 - 85

SE3 - Technology**SE2.Chemistry**

Ennaoui A. ; Bär M. ; Klaer J. ; Kropp T. ; Saez-Araoz R. ; Lux-Steiner M.C.

New chemical route for the deposition of ZnS buffer layers: Cd-free CuInS₂-based thin film solar cells with efficiencies above 11%

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]
WIP-Renewable Energies, München, 2005, 1882 - 1885

SE2.Integration

Kaufmann C.A. ; Klenk R. ; Lux-Steiner M.C. ; Neisser A. ; Körber P. ; Scheer R. ; Schock H.-W.

Towards a flexible, Cu(In,Ga)Se₂ based, thin film solar cell module

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]
WIP-Renewable Energies, München, 2005, 1729 - 1731

Klaer J. ; Klenk R. ; Boden A. ; Neisser A. ; Kaufmann C. ; Scheer R. ; Schock H.-W.

Damp heat stability of chalcopyrite mini-modules: evaluation of specific test structures

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005
IEEE, Piscataway, NJ, 2005, 336 - 339

Klaer J. ; Klenk R. ; Köble C. ; Boden A. ; Scheer, R. ; Schock H.W.

Stability issues of chalcopyrite photovoltaic devices

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]
WIP-Renewable Energies, München, 2005, 1914 - 1917

Klenk R. ; Linke M. ; Angermann H. ; Kelch C. ; Kirsch M. ; Klaer J. ; Köble Ch.

Die Stabilität von ZnO bei beschleunigter Alterung

In: TCO für Dünnschichtsolarzellen und andere Anwendungen III : Workshop 10. - 12.04.2005 in Freyburg / Unstrut, eds. Ellmer K. ; Stadermann G.

Forschungsverbund Sonnenenergie, Berlin, 2005, 79 - 82

Scheer R. ; Klaer J. ; Klenk R. ; Lux-Steiner M.Ch. ; Schock H.-W. ; Meyer N. ; Luck I. ; Rühle U.

Towards thin film module production using a simplified CIS process

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005

IEEE Operations Center, Piscataway, NJ, 2005, 219 - 222

SE2.Others

Kaufmann C.A. ; Neisser A. ; Klenk R. ; Scheer R. ; Schock H.-W.

Design of a window layer for flexible Cu(In,Ga)Se₂ thin film solar cell devices

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1. 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]

MRS, Warrendale, Pa, 2005, F7.5.1 - F7.5.6

SE2.Semico

Klenk R. ; Klaer J. ; Scheer R. ; Lux-Steiner M.Ch. ; Luck I. ; Meyer N. ; Rühle U.

Solar cells based on CuInS₂--an overview

Thin Solid Films

480-481 (2005) 509 - 514

SE3.Baseline

Asenjo B. ; Chaparro A.M. ; Gutierrez M.T. ; Herrero J. ; Klaer J.

Influence of In₂S₃ film properties on the behavior of CuInS₂/In₂S₃/ZnO type solar cells

Solar Energy Materials and Solar Cells

87 (2005) 647 - 656

Rudigier E. ; Djordjevic J. ; von Klopmann C. ; Barcones B. ; Pérez-Rodríguez A. ; Scheer R.

Real-time study of phase transformations in Cu-In chalcogenide thin films using in situ Raman spectroscopy and XRD

Journal of Physics and Chemistry of Solids

66 (2005) 1954 - 1960

Rudigier E. ; Enzenhofer T. ; Scheer R.

Determination of the quality of CuInS₂-based solar cells combining Raman and photoluminescence spectroscopy

Thin Solid Films

480-481 (2005) 327 - 331

SE3.Control

Alvarez-García J. ; Barcones B. ; Pérez-Rodríguez A. ; Romano-Rodríguez A. ; Morante J.R. ; Janotti A. ; Su-Huai Wei ; Scheer R.

Vibrational and crystalline properties of polymorphic CuInC₂ (C=S, Se) chalcogenides

Physical Review B

71 (2005) 054303/1 - 9

Enzenhofer T. ; Unold T. ; Scheer R. ; Schock H.-W.

Effect of Zn and Mg doping on CuInS thin films and solar cells

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1, 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]
MRS, Warrendale, PA., 2005, F11.3.1 - F11.3.6

SE3.Others

Kaufmann C.A. ; Neisser A. ; Klenk R. ; Scheer R.

Transfer of Cu(In,Ga)Se₂ thin film solar cells to flexible substrates using an in situ process control

Thin Solid Films
480-481 (2005) 515 - 519

Neisser A. ; Kaufmann C.A. ; Klenk R. ; Scheer R. ; Kroon M.A. ; Oomen G. ; Schock H.-W.

Prototype development - flexible Cu(In,Ga)Se₂ thin film solar cells for space applications

In: Conference record of the Thirty-First IEEE Photovoltaic Specialists Conference - 2005 : Coronado Springs Resort, Lake Buena Vista, FL, January 3 - 7, 2005
IEEE, Piscataway, NJ, 2005, 227 - 230

Neisser A. ; Kaufmann C.A. ; Klenk R. ; Scheer R. ; Schock H.W. ; Kroon M.A. ; Oomen G. ; Herrmann D. ; Kessler F. ; Powalla M.

Flexible solar cells for space: a new development based on chalcopyrite thin films

In: Proceedings of the Seventh European Space Power Conference; 9 -13 May 2005, Stresa, Italy, eds. Wilson A.
ESA Publications Division, Noordwijk, 2005

SE5.Interfaces

Wilhelm T. ; Berenguier B. ; Aggour M. ; Skorupska K. ; Kanis M. ; Winkelkemper M. ; Klaer J. ; Kelch C. ; Lewerenz H.-J.

8% efficient CuInS₂ solar cells by electrochemically removed Cu-S phases

Thin Solid Films
480-481 (2005) 24 - 28

SE4 - Dynamics of interfacial reactions

SE2.Chemistry

Bär M. ; Bloeck U. ; Muffler H.-J. ; Lux-Steiner M.C. ; Fischer Ch.-H. ; Giersig M. ; Niesen T.P. ; Karg F.

Cd²⁺/NH₃-treatment of Cu(In,Ga)(S,Se)₂: impact on the properties of ZnO layers deposited by the ion layer gas reaction method

Journal of Applied Physics
97 (2005) 014905/1 - 8

SE4.Cells

Letzig T. ; Schimper H.-J. ; Hannappel T. ; Willig F.

P-H bonds in the surface unit cell of P-rich ordered InP(001) grown by metalorganic chemical vapor deposition

Physical Review B
71 (2005) 033308/1 - 4

Möller K. ; Töben L. ; Kollonitsch Z. ; Giesen Ch. ; Heuken M. ; Willig F. ; Hannappel T.

In-situ monitoring and analysis of GaSb(100) substrate deoxidation

Applied Surface Science
242 (2005) 392 - 398

Schimper H.-J. ; Kollonitsch Z. ; Möller K. ; Seidel U. ; Bloeck U. ; Schwarzburg K. ; Willig F. ; Hannappel T.

New materials for InP-based high efficiency solar cells

In: Twentieth European Photovoltaic Solar Energy Conference : proceedings of the international conference held in Barcelona, Spain, 6 - 10 June 2005, eds. Palz W. [u.a.]

WIP-Renewable Energies, München, 2005, 492 - 494

SE4.Dynamics

Ernstorfer R. ; Felber S. ; Storck W. ; Galoppini E. ; Wei Q. ; Willig F.

Distance dependence of heterogeneous electron transfer probed in ultra-high vacuum with femtosecond transient absorption

Research on Chemical Intermediates

31 (2005) 643 - 647

Ernstorfer R. ; Gundlach L. ; Felber S. ; Eichberger R. ; Zimmermann C. ; Storck W. ; Willig F.

Ultrafast molecule to semiconductor electron transfer via different anchor groups in ultra-high vacuum

In: Ultrafast phenomena XIV : proceedings of the 14th international conference, Niigata, Japan, July 25 - 30, 2004, eds. Kobayashi T. [u.a.]

Springer, Berlin, 2005, 882 - 884

Ernstorfer R. ; Gundlach L. ; Felber S. ; Storck W. ; Eichberger R. ; Zimmermann C. ; Willig F.

Ultrafast electron transfer via a bridge-extended donor orbital

In: Ultrafast phenomena XIV : proceedings of the 14th international conference, Niigata, Japan, July 25 - 30, 2004, eds. Kobayashi T. [u.a.]

Springer, Berlin, 2005, 891 - 893

Gundlach L. ; Ernstorfer R. ; Riedle E. ; Eichberger R. ; Willig F.

Femtosecond two-photon photoemission at 150 kHz utilizing two noncollinear optical parametric amplifiers for measuring ultrafast electron dynamics

Applied Physics B

80 (2005) 727 - 731

Gundlach L. ; Felber S. ; Storck W. ; Galoppini E. ; Wei Q. ; Willig F.

Femtosecond two-photon photoemission probing electron injection from the excited singlet state of perylene attached to a long rigid tripod anchor-cum-spacer on rutile TiO₂(110)

Research on Chemical Intermediates

31 (2005) 39 - 46

Töben L. ; Gundlach L. ; Ernstorfer R. ; Eichberger R. ; Hannappel T. ; Willig F. ; Zeiser A. ; Förstner J. ; Knorr A. ; Hahn P.H. ; Schmidt W.G.

Femtosecond transfer dynamics of photogenerated electrons at a surface resonance of reconstructed InP(100)

Physical Review Letters

94 (2005) 067601/1 - 4

Wang L. ; Ernstorfer R. ; Willig F. ; May V.

Absorption spectra related to heterogeneous electron transfer reactions: the perylene TiO₂ system

Journal of Physical Chemistry B

(2005) 9589 - 9595

SE4.Others

Adhikari S. ; Mukherjee T. ; Janata E.

Initial steps in the reduction of selenium dioxide in aqueous solution and subsequent colloid formation

Research on Chemical Intermediates

31 (1-3) (2005) 227 - 234

Ershov B.G. ; Janata E. ; Gordeev A.V.

Pulse radiolysis study of I⁻ oxidation with radical anions Cl₂^{-•} in an aqueous solution

Russian Chemical Bulletin
54 (2005) 1378 - 1382

Janata E.

Pulse radiolysis experiments at the ELBENA facility: on the structure of the trimer silver cluster Ag₃²⁺, and the direct observation of aliphatic alcohol radicals

Research on Chemical Intermediates
31 (7-8) (2005) 605 - 611

Mohamed M.B. ; Tonti D. ; Al-Salman A. ; Chemseddine A. ; Chergui M.

Synthesis of high quality zinc blende CdSe nanocrystals

Journal of Physical Chemistry B
109 (2005) 10533 - 10537

SF2.BENSC

Argyriou D.N. ; Radaelli P.G. ; Milne C.J. ; Aliouane N. ; Chapon L.C. ; Chemseddine A. ; Veira J. ; Cox S. ; Mathur N.D. ; Midgley P.A.

Crystal structure of the superconducting layered cobaltate Na_xCoO_{2-y}D₂O

Journal of Physics: Condensed Matter
17 (2005) 3293 - 3304

SE5 - Solar energy

SE2.Analytics

Doka S. ; Rusu M. ; Meeder A. ; Arushanov E. ; Fabre N. ; Fiechter S. ; Schedel-Niedrig Th. ; Lux-Steiner M.Ch.

Effects of Ge-implantation on the photoluminescence of CuGaSe₂ thin films

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1. 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]
MRS, Warrendale, PA., 2005, F5.27.1 - F.5.27.5

SE5.Energetics

Bron M. ; Bogdanoff P. ; Fiechter S. ; Tributsch H.

Enhancement of oxygen electroreduction activity via surface modification of carbon supported ruthenium nanoparticles: a new class of electrocatalysts

Journal of Electroanalytical Chemistry
578 (2005) 339 - 344

Herrmann I. ; Brüser V. ; Fiechter S. ; Kersten H. ; Bogdanoff P.

Electrocatalysts for oxygen reduction prepared by plasma treatment of carbon-supported cobalt tetramethoxyphenylporphyrin

Journal of the Electrochemical Society
152 (2005) A2179 - A2185

Imparato A. ; Minarini C. ; Rubino A. ; Tassini P. ; Villani F. ; Della Sala D. ; Amendola E. ; Kunst M. ; Neitzert H.-C. ; Bellone S.

Excimer laser induced crystallization of amorphous silicon on flexible polymer substrates

Thin Solid Films
487 (2005) 58 - 62

Kunst M. ; Wunsch F. ; Abdallah O. ; Citarella G.

Electrical passivation of silicon wafers

Solid State Phenomena
108-109 (2005) 327 - 332

Kuppusami P. ; Vollweiler G. ; Rafaja D. ; Ellmer K.

Epitaxial growth of aluminium-doped zinc oxide films by magnetron sputtering on (001), (110), and (012) oriented sapphire substrates

Applied Physics A
80 (2005) 183 - 186

Mientus, R. ; Grötschel, R. ; Ellmer, K.

Optical and electronic properties of CrO_xN_y films, deposited by reactive DC magnetron sputtering in $\text{Ar}/\text{N}_2/\text{O}_2(\text{N}_2\text{O})$ atmospheres

Surface and Coatings Technology
200 (2005) 341 - 345

Neumann B. ; Bogdanoff P. ; Tributsch H. ; Sakthivel S. ; Kisch H.

Electrochemical mass spectroscopic and surface photovoltage studies of catalytic water photooxidation by undoped and carbon-doped titania

Journal of Physical Chemistry B
109 (2005) 16579 - 16586

Neumann B. ; Tributsch H.

Electrochemical studies of catalytic water oxidation with differently structured TiO_2 electrodes

In: Proceedings of the World Renewable Energy Congress ; 22 - 27 May 2005, Aberdeen, Scotland, UK.
WREC 2005, eds. Imbabi M. [u.a.]
Elsevier, Amsterdam, 2005, publ. on CD

Neumann B. ; Tributsch H.

Electrochemical and capacitive photovoltage studies of catalytic water oxidation by undoped and carbon doped TiO_2

In: Proceedings of the World Renewable Energy Congress ; 22 - 27 May 2005, Aberdeen, Scotland, UK.
WREC 2005, eds. Imbabi M. [u.a.]
Elsevier, Amsterdam, 2005, publ. on CD

Rojas-Chapana J.A. ; Tributsch H. ; Fink D. ; Petrov A.

Colloidal assembly and functionalization of pore channels in polymer foils

Journal of Porous Materials
12 (2005) 215 - 224

Seeger S. ; Mientus R. ; Ellmer K.

Influence of the ion energy on the growth of WS_x films prepared by reactive magnetron sputtering

In: HASYLAB annual report 2004
2005, 497 - 498

Seeger S. ; Mientus R. ; Röhrich J. ; Strub E. ; Bohne W. ; Ellmer K.

Electrical and optical properties of highly (001) textured WS_x films deposited by reactive magnetron sputtering

Surface and Coatings Technology
200 (2005) 218 - 221

Tomm Y. ; Fiechter S.

Crystal growth of materials for photovoltaics

Journal of Ceramic Processing Research
6 (2) (2005) 141 - 145

Tributsch H.

Photosensitive materials

In: Materials for energy conversion devices, eds. Sorrell C.C. [u.a.]
Woodhead, Cambridge, 2005, 63 - 83

Tributsch H.

The bionic anticipation of natural disasters

Journal of Bionics Engineering
2 (2005) 123 - 144

Tributsch H.

Warum Wasserstoff zur Elektronenwirtschaft gehört

Solarzeitalter
H. 3 (2005) 16 - 17

Tributsch H. ; Cermak J. ; Nadezhdina N.

Kinetic studies on the tensile state of water in trees

Journal of Physical Chemistry B
109 (2005) 17693 - 17707

Unold T. ; Enzenhofer T. ; Ellmer, K.

Optical, structural and electronic properties of CuInS₂ solar cells deposited by reactive magnetron sputtering

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1. 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]
MRS, Warrendale, Pa., 2005, F16.5.1 - F16.5.6

Unold T. ; Enzenhofer T. ; Sieber I. ; Ellmer K.

Reactive magnetron sputtering of CuInS₂ solar cells - the influence of the deposition conditions on structural and electronic properties and solar cell efficiency

In: Technical digest / 15th International Photovoltaic Science and Engineering Conference (PVSEC-15) : October 10 - 15, 2005, Shanghai, China
Shanghai Jiao Tong Univ., Shanghai, 2005, 503 - 504

Zhao F. ; Harnisch F. ; Schröder U. ; Scholz F. ; Bogdanoff P. ; Herrmann I.

Application of pyrolysed iron(II) phthalocyanine and CoTMPP based oxygen reduction catalysts as cathode materials in microbial fuel cells

Electrochemistry Communications
7 (2005) 1405 - 1410

SE5.Interfaces

Berenguier B. ; Lewerenz H.J.

Efficient solar energy conversion with electrochemically conditioned CuInS₂ thin film absorber layers

Electrochemistry Communications
8 (2005) 165 - 169

Grzanna J. ; Jungblut H. ; Lewerenz H.J.

Chaos and resonance in the model for current oscillations at the Si/electrolyte contact

In: Noise and fluctuations : 18th International Conference on Noise and Fluctuations - ICNF 2005, Salamanca, Spain, 19 - 23 September 2005, eds. Gonzales T. [u.a.]
American Inst. of Physics, Melville, NY, 2005, 635 - 638

Jungblut H. ; Jakubowicz J. ; Lewerenz H.J.

Observation of a transitory structure during porous silicon formation: stability of Si (1x1)-H terminated surfaces and facets

Surface Science
597 (2005) 93 - 101

Lublow M. ; Lewerenz H.J.

Analysis of variable scale surface roughness on Si(111): a comparative Brewster angle, ellipsometry and atomic force microscopy investigation

Transactions of the Institute of Metal Finishing
83 (2005) 238 - 247

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

On the surface chemistry of silicon under reducing conditions: an SRPES investigation

Electrochemistry Communications
7 (2005) 1077 - 1081

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

Electrochemical preparation of a stable accumulation layer on Si: a synchrotron radiation photoelectron spectroscopy study

Applied Physics Letters
87 (2005) 262101/1 - 3

Wilhelm T. ; Berenguier B. ; Aggour M. ; Skorupska K. ; Kanis M. ; Winkelkemper M. ; Klaer J. ; Kelch C. ; Lewerenz H.-J.

8% efficient CuInS₂ solar cells by electrochemically removed Cu-S phases

Thin Solid Films
480-481 (2005) 24 - 28

SE5 - Solar energy

Addenda to 2004

SE5.Energetics

Ellmer K. ; Mientus R. ; Seeger S. ; Weiß V.

Highly (001)-textured WS_{2-x} films prepared by reactive radio frequency magnetron sputtering

Physica Status Solidi A
201 (2004) R97 - R100

SE5.Interfaces

Lewerenz H.J.

Development of copperindiumdisulfide into a solar material

Solar Energy Materials and Solar Cells
83 (2004) 395 - 407

SE6 - Electronic structure of semiconductor interfaces

SE6.BESSY

Andres A. ; Pettenkofer C.

Epitaxial deposition of ZnO

In: TCO für Dünnschichtsolarzellen und andere Anwendungen III : Workshop 10. - 12.04.2005 in Freyburg / Unstrut, eds. Ellmer K. ; Stadermann G.
Forschungsverbund Sonnenenergie c/o Hahn-Meitner-Institut, Berlin, 2005, 25 - 27

Hunger R. ; Pettenkofer C.

Band structure investigation of chalcopyrite CuInSe₂(001) by angle-resolved photoelectron spectroscopy

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1. 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]
MRS, Warrendale, PA., 2005, F2.2.1 - F2.2.12

Rudolph R. ; Pettenkofer C. ; Bostwick A.A. ; Adams J.A. ; Ohuchi F. ; Olmstead M.A. ; Jaeckel B. ; Klein A. ; Jaegermann W.

Electronic structure of the Si(1 1 1):GaSe van der Waals-like surface termination

New Journal of Physics
7 (1) (2005) 108/1 - 20

SE6.Interfaces

Calvet W. ; Lehmann C. ; Plake T. ; Pettenkofer C.

Epitaxial CuInS_2 on Si(111) using di-tert-butyl disulfide as sulphur precursor

Thin Solid Films

480-481 (2005) 347 - 351

Meier U. ; Pettenkofer C.

Morphology of the Si-ZnO Interface

Applied Surface Science

252 (2005) 1139 - 1146

Pettenkofer C. ; Lehmann C. ; Calvet W.

Thin CuInS_2 films prepared by MOMBÉ: interfaces and surface properties

In: Thin-film compound semiconductor photovoltaics : symposium held March 29 - April 1. 2005, San Francisco, California, U.S.A., eds. Shafarman W. [u.a.]

MRS, Warrendale, PA., 2005, F5.20.1 - F5.20.4

I - Central Scientific-Technical Infrastructure

DE - Experimental Systems

DE

Bönisch S. ; Kalkner W.

Anwendungen und Modellierung von ESD bei kleinen Spannungen

SMT : Germany ; Fachzeitschrift für Advanced Packaging & Elektronikfertigung
18 (August/September) (2005) 40 - 42

Bönisch S. ; Kalkner W.

Verhalten und Parametereinfluss auf ESD bei kleinen Spannungen

SMT : Germany ; Fachzeitschrift für Advanced Packaging & Elektronikfertigung
18 (Mai) (2005) 37 - 39

Goettmann W. ; Wulf F. ; Körfer M. ; Kuhnhen J.

Beam Loss Position Monitor using Cerenkov radiation in optical fibers

In: Contributions to 7th European Workshop on Beam Diagnostics and Instrumentation for Particle Accelerators ; 7th DIPAC 2005 : Lyon, France, 6 - 8 June, 2005
2005, 295 - 297

Henschel H. ; Körfer M. ; Kuhnhen J. ; Weinand U. ; Wulf F.

Fibre optic sensor solutions for particle accelerators

In: 17th International Conference on Optical Fibre Sensors : [OFS-17]; 23 - 27 May 2005, Bruges, Belgium.
Pt. 1, eds. Voet M. [u.a.]
SPIE, Bellingham, Wash., 2005, 515 - 518

DN - Central Data-Processing and Network

DN

Eschricht N. ; Hoinkis E. ; Mädler F. ; Schubert-Bischoff P. ; Röhl-Kuhn B.

Knowledge-based reconstruction of random porous media

Journal of Colloid and Interface Science
291 (2005) 201 - 213

ISL.PPT

Stark R. ; Fromme M. ; Cordini D. ; Heufelder J. ; Simiantonakis I. ; Weber A. ; Kluge H.

Computer-aided patient positioning in proton therapy of eye tumours

Biomedizinische Technik
50 [Suppl. 1 ; Pt. 1] (2005) 346 - 347

SE5.Interfaces

Grzanna J. ; Jungblut H. ; Lewerenz H.J.

Chaos and resonance in the model for current oscillations at the Si/electrolyte contact

In: Noise and fluctuations : 18th International Conference on Noise and Fluctuations - ICNF 2005,
Salamanca, Spain, 19 - 23 September 2005, eds. Gonzales T. [u.a.]
American Inst. of Physics, Melville, NY, 2005, 635 - 638

SF2.Others

Mädler F. ; Knorr K.

Geometric modeling of force equilibria in crystals: the "equal distance - equal force" formalism (EDEF)

Zeitschrift für Kristallographie

220 (2005) 85 - 94

Conference Contributions

SF - Structural Research

SF - BENSC

BENSC.User

Invited Talk

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

Neutron autoradiography of old masters paintings, exemplified by paintings of Poussin, Steen and others

RICH 05, Research Infrastructures for Cultural Heritage
Trieste, Italy 12. Dec - 13. Dec 2005

SF1.BENSC

Poster

Alba M.; Haeussler W.; Fouquet P.; Pappas C.

Shape function cross-over and dynamical scaling of magnetic critical scattering probed by NSE in 3D Heisenberg ferromagnets

NSE 2005
ILL 08. Sep - 10. Sep 2005

Oral

Bentley, P. M.; Lelièvre-Berna, E.; Pappas, C

Polarimetric neutron spin echo

NMI3 / ENSA Meeting
RAL, Oxford, UK 26. Sep - 29. Sep 2005

Poster

Bentley, P. M.; Lelièvre-Berna, E.; Pappas, C

Optimisation of Neutron Spin Echo Instrumentation for Implementing Spherical Polarimetry

NSE2005
Grenoble, 07. Sep - 10. Sep 2005

Oral

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

Development of polarimetric neutron spin echo technique - recent developments and current status

Semi-annual meeting, nmi3 Joint Research Activity 5 - Polarized Neutron Techniques (PNT)
Gatchina, St Petersburg, Russia 08. Jun - 12. Jun 2005

Invited Talk

C. Pappas, R. Cywinski, A. Hillier, P. Manuel, P. Bentley, M. Alba, F. Mezei, I.A. Campbell, U. Zimmermann

Relaxation in Glassy Magnets

NSE 2005
ILL - Grenoble Frankreich 08. Sep - 10. Sep 2005

Oral

Habicht, K.

Larmor phase corrections in neutron resonance spin-echo: curved dispersion surfaces

NMI3 General Meeting
Rutherford 26. Sep - 29. Sep 2005

Poster

Jauch, W.; Reehuis, M.

Electron Density in Cubic SrTiO₃ from Gamma-ray Diffraction

XX Congress of the International Union of Crystallography
Florenz (Italien) 23. Aug - 31. Aug 2005

Poster

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

Performance of TOF powder diffractometers on reactor sources

International Conference on Neutron Scattering

Sydney (Australia) 27. Nov - 02. Dec 2005

Poster

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

EXED, the new Extreme Environment Diffractometer at the HMI Berlin

Jahrestagung der Deutschen Gesellschaft für Kristallographie 2005

Köln, Deutschland 28. Feb - 03. Mar 2005

Oral

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

Non-exponential Relaxation in Spin-Glasses and other Interacting Systems: Towards a Universal Relaxation Function ?

NSE 2005

ILL - Grenoble Frankreich 08. Sep - 10. Sep 2005

Poster

Steitz, R.

Reflectometry studies of structured interfaces and thin films

Moderne Materialanalytik mit Neutronen, Ionen und Synchrotronstrahlung

Berlin 01. Jun - 01. Jun 2005

Invited Talk

Steitz, R.

Untersuchung dünner Schichten mit Neutronenreflektometrie

Moderne Materialanalytik mit Neutronen, Ionen und Synchrotronstrahlung

Berlin 01. Jun - 01. Jun 2005

Invited Talk

Steitz, R., Findenegg, G.H., v. Klitzing, R.

Swelling and structural changes of polyelectrolyte multilayers in contact with aqueous solution studied by neutron and X-ray reflectometry

344. WE-Heraeus-Seminar

Bad Honnef 04. Apr - 06. Apr 2005

Invited Talk

Steitz, R.; Czeslik, C.; Haas, H.; Riccio, P.;

Soft Interfaces on the Nanometer Scale - How Neutrons Contribute to a Deeper Understanding on the Supramolecular Level

AVS 52nd International Symposium & Exhibition

Hynes Convention Center, Boston, MA 30. Oct - 04. Nov 2005

Oral

Steitz, R.; Schemmel, S.; Findenegg, G. H.

Boundary Layers of Water at Polymer-Liquid Interfaces

104. Hauptversammlung der Deutschen Bunsen-Gesellschaft für Physikalische Chemie e.V.

Frankfurt/Main 05. May - 07. May 2005

Oral

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

Phase retrieval and tomographic reconstruction of the refractive index distribution from DEI

Int. Workshop on phase retrieval and coherent scattering

Porquerolles 15. Jun - 17. Jun 2005

Oral

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

Scattering related contrast signals in neutron computerized tomography and the new V12 instrument at HMI Berlin

ICNS

Sydney 27. Nov - 02. Dec 2005

Invited Talk

Treimer W.

Neutron and Synchrotron Radiography and tomography and applications in material engineering sciences

Autumn School

Ammersbach 10. Oct - 14. Oct 2005

Oral

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

USAS vs refraction - a phase based problem

Int. Workshop on phase retrieval and coherent scattering

Porquerolles 15. Jun - 17. Jun 2005

Invited Talk

Vorderwisch, P.

Selected Experiments Using Cold Neutron Spectroscopy at BENSC (Berlin Neutron Scattering Center)

Satellite Meeting on Neutron Scattering, Eleventh Users' Meeting & Workshops, National Synchrotron Radiation Research Center (NSRRC)

Hsinchu, Taiwan 25. Oct - 25. Oct 2005

Invited Talk

Vorderwisch, P.

The Cold Neutron Triple-Axis-Spectrometer FLEX at BENSC

Taiwan-Australia Workshop on Neutron Scattering Science, National Central University

Chung-Li, Taiwan 27. Oct - 27. Oct 2005

Invited Talk

W. Treimer

Absorption and phase based imaging signals for neutron tomography

DPG Tagung

TU-Berlin 07. Mar - 11. Mar 2005

Oral

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

Slit and phase grating diffraction with a DCD

ICNS

Sydney 27. Nov - 02. Dec 2005

SF2.BENSC

Oral

Sikolenko, V.; Efimov, V.V.; Efimova, E.A.; Sazonov, A.P.; Krivencov, V.V.; Kochubej, D.I.

Neutron Diffraction and SR (EXAFS, XANES) studies of La-based cobaltites

V Russian National Conferens on Application of Neutrons, Synchrotron Radiation and Electron in Nanosystems Studies (RSNE NANO-2005)

Moscow 14. Nov - 19. Nov 2005

Poster

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

μSR and neutron diffraction studies of U(NixCu1-x)2Si2 magnetic structure

X International conference on muSR

Oxford 08. Aug - 12. Aug 2005

Poster

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

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

ICNS 2005

Sydney, Australia 27. Nov - 02. Dec 2005

SF3.BENSC

Poster

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

Nondestructive characterization of archaeological glasses by neutron tomography

International Conference on Neutron Scattering

Sydney, Australien 27. Nov - 02. Dec 2005

Oral

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

Scattering Correction Algorithm for Neutron Radiography and Tomography Tested at Facilities with Different Beam Characteristics

International Conference of Neutron Scattering

Sydney, Australien 27. Nov - 02. Dec 2005

Poster

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

CONRAD - a novel neutron tomography instrument at HMI Berlin

ICNS

Sydney 27. Nov - 02. Dec 2005

Poster

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

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

International Conference of Neutron Scattering

Sydney, Australien 28. Nov - 02. Dec 2005

Poster

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

ASAXS studies on silverfree photochromic glasses

HASYLAB User Meeting

DESY 27. Jan - 28. Jan 2005

Poster

Hoell, A.; Zizak, I.; Bieder, H.; Winter, W.; Banhart, J.

The new SAXS instrument at the BESSY 7T Wiggler

HASYLAB User Meeting

DESY in Hamburg 27. Jan - 28. Jan 2005

Poster

Hoell, A.; Zizak, I.; Haas, S.; Tatchev, D.; Bieder, H.; Banhart, J.

The new SAXS instrument at BESSY - first results

BENSC User meeting

Berlin, Germany 22. Sep - 23. Sep 2005

Poster

Kardjilov, N.; Celso, F. L.; Hilger, A.; Triolo, R.

Applied Neutron Tomography in Modern Archaeology

RICH Meeting

Triest, Italy 12. Dec - 13. Dec 2005

Oral

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

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

International Workshop on Neutron Imaging Using Cold Neutrons

Paul Scherrer Institute, Schweiz 13. Oct - 14. Oct 2005

Oral

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

Conceptual Design of the Cold Neutron Radiography Facility at HANARO

IEEE Nuclear Science Symposium and Medical Imaging Conference

Puerto Rico 24. Oct - 29. Oct 2005

Oral

Manke, I.

Untersuchung industrieller Bauteile mit bildgebenden Verfahren am Hahn-Meitner-Institut

DGZfP-Jahrestagung 2005

Rostock 02. May - 04. May 2005

Poster

Manke, I.; Haibel, A.; Kardjilov, N.; Strobl, M.; Rack, A.; Hilger, A.; Scholta, J.; Hartnig, C.; Banhart, J.

Investigation of Fuel Cells by Means of In-situ Neutron Radiography and Synchrotron Tomography

European Congress on Advanced Materials and Processes 2005

Prague, Czech Republic 05. Sep - 08. Sep 2005

Poster

Manke, I.; Haibel, A.; Kardjilov, N.; Strobl, M.; Rack, A.; Hilger, A.; Scholta, J.; Hartnig, C.; Zabler, S.;

Banhart, J.

Investigation of Fuel Cells by means of Synchrotron Tomography and In-Situ Neutron Radiography

Bessy User Meeting 2005

Berlin, Germany 01. Dec - 02. Dec 2005

Poster

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

Untersuchung industrieller Bauteile mit bildgebenden Verfahren am Hahn-Meitner-Institut Berlin

DGZfP-Jahrestagung

Rostock 02. May - 04. May 2005

Oral

Matsushima, U.; Kawabata, Y.; Kardjilov, N.; Herppich, W.B.

The Potential of Neutron and X-ray Imaging to Observe Water Transport in Plants

Non-Destructive Methods for Detecting Health Promotion Compounds Working Group Meeting; Leibniz-

Institute of Agricultural Engineering

Potsdam-Bornim 07. Dec - 08. Dec 2005

Invited Talk

Pop, Odenbach, S.; Wiedenmann, A.

The Microscopic mechanisms of the magnetoviscous effect in ferrofluids investigated by SANS

Int. Conf. on Fundamental and Applied Magnetohydrodynamics, 15. PAMIR

Riga 28. Jun - 28. Jun 2005

SF - ISL

ISL.Development

Oral

Winkelmann, T.; Arndt, P.; Homeyer, H.; Kluge, H.; Röhrich, J.

Status of the Ion Sources at the ISL and their Application for Eye Tumor Therapy

SNEAP - HIAT

Brookhaven 16. Oct - 20. Oct 2005

ISL.PPT

Oral

*Berg, A.; Bayreder, C.; Naumann, I.; Heufelder, J.***3D-High-Resolution Dosimetry of a 12mm Proton-Beam in Normoxic Polymer Gels**

International Conference of Medical Physics

Nürnberg 14. Sep - 17. Sep 2005

Oral

*Cordini, D.; Bendl, R.; Marnitz, S.; Lemke, A.-J.; Bechrakis, N.E.; Foerster, M.H.; Höcht, S.; Hinkelbein, W.***Proton Therapy of Uveal Melanomas - First Experiences with MRI-based Treatment Planning**

43th International Meeting of Particle Therapy Co-operative Group

München 10. Dec - 14. Dec 2005

Oral

*Cordini, D.; Marnitz, S.; Fuchs, H.***MRI-based Treatment Planning for Proton Therapy of Uveal Melanomas - First Experience**

14th International Conference of Medical Physics

Nürnberg 14. Sep - 17. Sep 2005

Oral

*Fippel, M.; Soukup, M.; Weber, A.; Heufelder, J.***Experimental verification of the Monte Carlo proton dose calculation algorithm VMCpro for the treatment planning of ocular tumors**

8th Biennial ESTRO Meeting on Physics and Radiation Technology for Clinical Radiotherapy

Lissabon 24. Sep - 29. Sep 2005

Oral

*Fippel, M.; Soukup, M.; Weber, A.; Heufelder, J.***Implementation of geometry modules into the Monte Carlo dose calculation algorithm VMCpro to modulate proton beams for the treatment planning of ocular tumors**

International Conference of Medical Physics

Nürnberg 14. Sep - 17. Sep 2005

Oral

*Heufelder, J.; Cordini, D.; Simiantonakis, I.; Stark, R.; Weber, A.***Dose Distribution Disturbances caused by Tantalum Clips in Proton Therapy of Uveal Melanoma**

43th International Meeting of Particle Therapy Co-Operative Group

München 10. Dec - 14. Dec 2005

Oral

*Heufelder, J.; Cordini, D.; Simiantonakis, I.; Stark, R.; Weber, A.; Kluge, H.***Einfluss von Tantalclips auf die Dosisverteilung eines 68 MeV Protonenstrahls**

Frühjahrstagung der DPG

Berlin 04. Mar - 09. Mar 2005

Oral

*Heufelder, J.; Naumann, I.; Bayreder, C.; Berg, A.; Grebe, G.; Lüdemann, L.; Pfaender, M.***Polymergeldosimetrie in der Protonentherapie von Augentumoren**

Frühjahrstagung der DPG

Berlin 04. Mar - 09. Mar 2005

Oral

*Heufelder, J.; Stark, R.; Weber, A.***Influence of Tantalum Clips used in Eye Tumour Therapy on the Dose Distribution of a 68 MeV Proton Beam**

International Conference of Medical Physics

Nürnberg 14. Sep - 17. Sep 2005

Oral

Naumann, I.; Bayreder, C.; Berg, A.; Grebe, g.; Lüdemann, L.; Pfaender, M.; Heufelder, J.

Dosimetry of a 68 MeV Proton Beam using Normoxic Polymer Gels and 3 T MR-scanners

International Conference of Medical Physics

Nürnberg 14. Sep - 17. Sep 2005

Oral

Naumann, I.; Heufelder, J.; Pfaender, M.; Lüdemann, L.; Grebe, G.; Berg, A.; Bayreder, C.

Dosimetry of a 68 MeV Proton Beam with Normoxic Polymer Gels

43th International Meeting of Particle Therapy Co-Operative Group

München 10. Dec - 14. Dec 2005

Invited Talk

Runge, S.; Cordini D.; Heufelder, J.

Protonentherapie bei Augentumoren am Hahn-Meitner-Institut Berlin

13. Deutscher MTA-Kongress 2005

Berlin 16. Mar - 18. Mar 2005

Poster

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

Comparative Treatment Planning for Proton Therapy of Eye Tumours with Eyeplan and Octopus

International Conference of Medical Physics

Nürnberg 14. Sep - 17. Sep 2005

Oral

Soukup, M.; Weber, A.; Heufelder, J.; Fippel, M.

Comparison of Geant4 and MCNPX simulations of a clinical proton therapy facility

International Conference of Medical Physics

Nürnberg 14. Sep - 17. Sep 2005

Oral

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

Computer-aided Patient Positioning in Proton Therapy of Eye Tumours

International Conference of Medical Physics

Nürnberg 14. Sep - 17. Sep 2005

Oral

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

Computer-aided Patient Positioning in Proton Therapy of Eye Tumours

43th International Meeting of Particle Therapy Co-Operative Group

München 10. Dec - 14. Dec 2005

ISL.User

Invited Talk

Bohne, W.; Röhrich, J.; Strub, E.

Quantitative elemental profiling of thin films

Eighth TESLA Workshop

Belgrade, Serbia and Montenegro 18. Apr - 20. Apr 2005

Oral

Bohne, W.; Röhrich, J.; Strub, E.

Analysis of solar cell materials by ion scattering methods

ECASIA'05

Wien 25. Sep - 30. Sep 2005

Invited Talk

Bohne, W.; Röhrich, J.; Strub, E.

ERDA für die Solarenergie

Symposium über Zukunftsperspektiven & Anwendung von Ionenstrahlen

BAM-Berlin 17. Oct - 17. Oct 2005

Oral

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

Ein Verfahren zur automatischen Optimierung der Lagerung in der Protonentherapie von Aderhautmelanomen

Frühjahrstagung der DPG 2005

Berlin 04. Mar - 09. Mar 2005

Poster

Denker, A.

Zerstörungsfreie Elementanalyse mit Hochenergie PIXE

Prozessnahe Röntgenanalytik

Berlin 25. Nov - 26. Nov 2005

Invited Talk

Denker, A.

Schneller Wasserstoff als Spürhund in der Kunstanalyse

MTA Kongress

Berlin 14. Mar - 18. Mar 2005

Poster

Denker, A.

Non-destructive testing on paintings and metal artefacts

Research Infrastructures in Cultural Heritage - RICH

Triest 12. Dec - 13. Dec 2005

Invited Talk

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

Materials Analysis Using Fast Ions

Cern Accelerator School

Zeegse, NL 24. May - 02. Jun 2005

Oral

Gromball, F.; Ong, K.; Groth, C.; Fu, L.; Müller, J.; Bohne, W.; Röhrich, J.; Strub, E

IMPURITIES IN ELECTRON BEAM RECRYSTALLISED SILICON ABSORBERS ON GLASS

20th. European PVSEC

Barcelona 06. Jun - 10. Jun 2005

Oral

Liaw, I. I.; del Prado, A.; Bohne, W.; Röhrich, J.; Strub, E.; Boyd, I. W.

Structural properties of TixTayO thin films deposited by UV photo induced chemical vapour deposition

IUMRS 2005

Singapore 03. Jul - 08. Jul 2005

Poster

Martínez, F. L.; Toledano, M.; San Andres, E.; Röhrich, J.; Strub, E.; Bohne, W.; Martíl, I.

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

13th International Congress on Thin Films (ICTF13)

Stockholm 19. Jun - 23. Jun 2005

Poster

Neitzert, H.C.; Ferrara, M.; Scherff, M.; Fahrner, W.; Bobeico, E.; Tucci, M.; Roca, F.; Gialanella, L.; Romano, M.; Limata, B.; Denker, A.; Opitz-Coutureau, J.

Energy dependence of the proton irradiation damage of a-Si:H/c-Si heterostructure and crystalline silicon solar cells

11th Euregional Workshop on Thin Silicon Devices
Delft (Niederlande) 02. Feb - 04. Feb 2005

Poster

Runge, S.; Heufelder, J.; Bechrakis, N.E.; Höcht, S.; Hinkelbein, W.

Patientenmanagement in der Protonentherapie von Augentumoren

13. Deutscher MTA-Kongress 2005
Berlin 16. Mar - 18. Mar 2005

Poster

Strub, E.; Bohne, W.; Röhrich, J.

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

IBA 2005
Sevilla 26. Jun - 01. Jul 2005

Invited Talk

Strub, E.; Bohne, W.; Röhrich, J.

Characterization of Solar Cell Material by Heavy Ion Elastic Recoil Detection Analysis

SREN 2005
Florenz 02. Apr - 08. Apr 2005

Oral

Strub, E.; Bohne, W.; Röhrich, J.

ERDA am Ionenstrahllabor des HMI - Routineanalytik dünner Schichten mit Schwerionen

Workshop Ionenstrahlphysik und -technologie 2005
Leipzig 11. Apr - 12. Apr 2005

Poster

Strub, E.; Bohne, W.; Röhrich, J.

CHEMISCHE INFORMATION AUS ERDA-MESSUNGEN

ANAKON 2005
Regensburg 15. Mar - 18. Mar 2005

Oral

Strub, E.; Bohne, W.; Ellmer, K.; Röhrich, J.; Seeger, S.

Systematic ERDA study of Molybdenum sulfide and Tungsten sulfide

IBA 2005
Sevilla 26. Jun - 01. Jul 2005

Poster

Strub, E.; Bohne, W.; Röhrich, J.

Correlation of ERDA measurements with chemical properties of modern materials

IBA 2005
Sevilla 26. Jun - 01. Jul 2005

Invited Talk

Strub, E.; Bohne, W.; Röhrich, J.

Materials analysis with heavy ions

PIANO summer school
Blainville-sur-Mer, Frankreich 19. Sep - 26. Sep 2005

Oral

Thamm, T.; Wett, D.; Bohne, W.; Strub, E.; Röhrich, J.; Szargan, R.; Marx, G.; Goedel, W.A.

Abscheidung und Analytik von PECVD-Borcarbonitridschichten

FKA 13

Chemnitz 26. Jun - 29. Jun 2005

Poster

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

Physical properties of high pressure reactively sputtered hafnium oxide

RIVA 5th Iberian Vacuum Meeting

Guimarães, Portugal 18. Sep - 21. Sep 2005

SF - BESSY

SF2.BESSY

Poster

Andersson, C.; Konishi, T.; Holub Krappe, E.; Karis, O.; Maletta, H.; Arvanitis, D.

Magnetization reorientation in Au/Co: in-situ prepared ultra-thin films

50th Magnetism and Magnetic Materials Conference, MMM 2005

San Jose, California, USA 29. Oct - 04. Nov 2005

Poster

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

A synchrotron x-ray diffraction study of Na_{0.48}CoO₂

Orbital 2005 - 4th Workshop on Orbital Physics and Novel Phenomena in Transition Metal Oxides

Hamburg 05. Oct - 06. Oct 2005

Poster

Holub-Krappe, E.; Andersson, C.; Konishi, T.; Karis, O.; Maletta, H.-J.; Arvanitis, D.

Spin Reorientation in Thin Au/Co/Au Films: in-situ XMCD and EXAFS Study

XX Conference of the Int. Union of Crystallography, IUCr2005

Florence, Italy 22. Aug - 01. Sep 2005

Poster

Rossner, H.H., Schmitz D., Imperia P., Maletta H., Krappe H.J., Rehr J.J.

EXAFS and MEXAFS at overlapping L-edges

24th BESSY Users' Meeting

Berlin / Adlershof 01. Dec - 02. Dec 2005

Poster

Schmitz, D.; Imperia, P.; Maletta, H.; Tennant, D.A.; Goering, E.; Grüner, U.; Harlander, M.; Macke, S.; Schütz, G.

Determination of magnetization depth profiles with X-Ray Resonant Magnetic Reflectometry

BESSY Usermeeting 2005

Berlin 01. Dec - 02. Dec 2005

Poster

Schmitz, D.; Imperia, P.; Rudorff, S.; Maletta, H.; Tennant, D.A.; Krzyzowski, M.A.; Wolfram, M.; Rohoff, M.; Einert, K.

The new 7 T high magnetic field end station at UE46-PGM

BESSY Usermeeting 2005

Berlin 01. Dec - 02. Dec 2005

SF3.BESSY

Poster

*A. Haibel, A. Rack, I. Manke, H. Rieseemeier, J. Goebbels, G. Weidemann, J. Banhart***Synchrotron-Tomographie am BESSY**

Werkstoffwoche 2005

München 21. Sep - 23. Sep 2005

Poster

*Boin, M.; Haibel, A.; Rack, A.; Zabler, S.***Kompensation von Artefakten in Tomogrammen**

Bessy-User Meeting

Berlin, Germany 30. Nov - 01. Dec 2005

Poster

*Freidank, H.; Haibel, A.; Berthold, A.; Rieseemeier, H.***Synchrotron-Tomographie an proteinbasierten keramischen Schäumen**

Bessy-Usertreffen

Berlin, Germany 01. Dec - 02. Dec 2005

Poster

*Gräber, H.; Apel, C.; Rack, A.; Haibel, A.; Manke, I.; Rieseemeier, H.; Weidemann, G.; Goebbels, J.; Banhart, J.***High resolution synchrotron-tomography on human tooth tissue**

69. Jahrestagung der Deutschen Physikalischen Gesellschaft (DPG)

Berlin, Germany 04. Mar - 09. Mar 2005

Poster

*Gräber, H.G.; Apel, C.; Rack, A.; Haibel, A.; Manke, I.; Rieseemeier, H.; Weidemann, G.; Goebbels, J.; Banhart, J.***Hochauflösende Synchrotron-Tomographie zur Darstellung kariöser Prozesse**

Bessy Usermeeting 2005

Berlin, Germany 01. Dec - 02. Dec 2005

Poster

*Gräber, H.G.; Apel, C.; Rack, A.; Haibel, A.; Manke, I.; Rieseemeier, H.; Weidemann, G.; Goebbels, J.; Banhart, J.***Hochauflösende Synchrotron-Tomographie zur Darstellung kariöser Prozesse**

ZMK 2005

Berlin, Germany 26. Oct - 30. Oct 2005

Invited Talk

*Haibel, A.***Mikroanalytik und Referenzmaterialien - Synchrotron Tomographie**

Satellit Workshop zur PRORA

Berlin, Germany 08. Nov - 08. Nov 2005

Poster

*Haibel, A.; Banhart, J.; Manke, I.; Melzer, A.; Rack, A.***In-situ-Untersuchung des Entladungsvorgangs von Alkaline-Batterien mit Tomographie**

DGZfP-Jahrestagung

Rostock, Germany 02. May - 04. May 2005

Invited Talk

*Haibel, A.; Rack, A.; Zabler, S.; Banhart, J.***Synchrotron X-ray microtomography: principles and applications**

DPG Frühjahrstagung 2005

Berlin, Germany 04. Mar - 09. Mar 2005

Poster

Haibel, A.; Zabler, S.; Banhart, J.

Structural and Chemical Material Characterization by Means of Synchrotron Tomography

EUROMAT 2005

Prag 05. Sep - 08. Sep 2005

Invited Talk

Haibel, A.; Zabler, S.; Rack, A.; Rueda, A.; Freidank, H.; Grupp, R.; Henkel, F.; Boin, M.; Flemming, S.; Banhart, J.; Weidemann, G.; Riesemeier, H.; Goebbels, J.

Synchrotron-Tomography: Principles and Applications in Materials Science

Herbstschule PNAM

Hamburg, Germany 10. Oct - 14. Oct 2005

Poster

Hoell, A.; Zizak, I.; Haas, S.; Tatchev, D.; Bieder, H.; Banhart, J.

The new SAXS instrument at BESSY - (7T-WLS-SAXS)

BESSY user meeting

Berlin, Germany 01. Dec - 02. Dec 2005

Invited Talk

Manke, I.; Haibel, A.; Rack, A.; Zabler, S.; Banhart, J.

Hochauflösende Tomographie mit Synchrotronstrahlung an Papier

Workshop Moderne Oberflächenanalytik und bildgebende Verfahren

PTS 10. May - 11. May 2005

Invited Talk

Rack, A.

Analyse von Synchrotronaufnahmen moderner Werkstoffe und komplexer Materialsysteme

Analyse von Volumenbildern der Mikrostruktur von Werkstoffen

Kaiserslautern 19. Apr - 19. Apr 2005

Poster

Rack, A.; Haibel, A.; Manke, I.; Zabler, S.; Riesemeier, H.; Weidemann, G.; Goebbels, J.; Banhart, J.

Chemical processes in commercial batteries studied by synchrotron-tomography and 3D image analysis

69. Jahrestagung der Deutsche Physikalische Gesellschaft (DPG) "Physik seit Einstein"

Berlin 04. Mar - 09. Mar 2005

Poster

Rack, A.; Knabe, C.; Gräber, H.G.; Stiller, M.; Apel, C.; Zabler, S.; Weidemann, G.; Riesemeier, H.; Goebbels, J.; Banhart, J.

Regenerated bone tissue and human tooth tissue studied with high resolution synchrotron-tomography

Bessy Usermeeting 2005

Berlin, Germany 01. Dec - 02. Dec 2005

Poster

Rack, A.; Zabler, S.; Schladitz, K.; Godehardt, M.; Wiegmann, A.; Reif, S.; Haibel, A.; Manke, I.; Riesemeier, H.; Weidemann, G.; Goebbels, J.; Banhart, J.

Analyse, Tomographie und Simulation von Mikrostrukturen

Industrietag HMI 2005

Berlin, Germany 01. Jun - 01. Jun 2005

Oral

Stiller, M.; Rack, A.; Zabler, S.; Weidemann, G.; Riesemeier, H.; Goebbels, J.; Knabe, C.

Histologie und Synchrotron-CT zur Beurteilung humaner Biopsien nach dem Sinuslift mit Beta-TCP

ZMK-Jahrestagung

Berlin, Germany 26. Oct - 30. Oct 2005

Poster

Zabler, S.; Haibel, A.; Rack, A.; Rueda, A.; Riesemeier, H.; Weidemann, G.; Goebbels, J.; Banhart, J.
Study of semi-solid casting and processing with X-ray phase-sensitive tomography
DPG Tagung 2005
Berlin, Germany 04. Mar - 09. Mar 2005

Poster

Zabler, S.; Rack, A.; Haibel, A.; Weidemann, G.; Riesemeier, H.; Goebbels, J.; Banhart, J.
Determination of partial transverse beam coherence at BAMline by means of Talbot imaging
Bessy Usermeeting 2005
Berlin, Germany 01. Dec - 02. Dec 2005

SF4.BESSY

Oral

Chen, W.; Darowski, N.; Zizak, I.; Schumacher, G.; Klingelhöffer, H.; Neumann, W.
LATTICE DISTORTION IN Gamma PRIME PRECIPITATES OF SINGLE CRYSTAL SUPERALLOY SC16 UNDER CREEP-DEFORMATION
European Materials Research Society, Strasbourg
Strasbourg 31. May - 03. Jun 2005

Poster

Chen, W.; Darowski, N.; Zizak, I.; Schumacher, G.; Klingelhöffer, H.; Neumann, W.
Synchrotron Radiation Study of FWHM of Gamma Precipitates in Creep-deformed Single Crystal Superalloy SC16
Jahrestagung der Deutschen Gesellschaft Kristallographie
Köln 28. Feb - 04. Mar 2005

Oral

Chen, W.; Darowski, N.; Zizak, I.; Schumacher, G.; Klingelhöffer, H.; Neumann, W.
Gamma/Gamma Prime Lattice Mismatch in Single Crystal Superalloys after Tensile and Compressive Creep Deformation
Jahrestagung der Deutschen Gesellschaft für Kristallographie
Köln 28. Feb - 03. Mar 2005

Oral

Chen, W.; Darowski, N.; Zizak, I.; Schumacher, G.; Klingelhöffer, H.; Neumann, W.
Variation of Lattice Distortion of Gamma Prime Phase in Creep-deformed Single Crystal Superalloy SC16 with Temperature
Jahrestagung der Deutschen Physikalischen Gesellschaft
berlin 04. Mar - 09. Mar 2005

Oral

Chen, W.; Darowski, N.; Zizak, I.; Schumacher, G.; Klingelhöffer, H.; Neumann, W.
Influence of Tensile and Compressive Creep Deformation on Gamma/Gamma Prime Lattice Mismatch in Single Crystal Superalloys
Jahrestagung der Deutschen Physikalischen Gesellschaft
Berlin 04. Mar - 09. Mar 2005

Invited Talk

Darowski, N.
Surface and bulk amorphization of InP induced by swift heavy ion irradiation
Workshop on High-resolution X-ray Diffraction of Nanostructured Materials
Potsdam 04. Feb - 04. Feb 2005

Invited Talk

Denker, A.; Arndt, P.; Busse, W.; H. Homeyer, H.; Pelzer, W.; Rethfeldt, C.; Röhrich, J.
Status of ISL
European Cyclotron Progress Meeting ECPM
Belgrad 05. Oct - 08. Oct 2005

Oral

Erdely, Z.; Sladeczek, M.; Stadler, L.-M.; Zizak, I.; Langer G.;

Transient interface sharpening in miscible alloys

MDN and DYNASYNC workshop on Dynamics in Nanoscale Systems

Raach, Österreich 30. Jan - 03. Feb 2005

Oral

Schumacher, G., Chen, W.

Mechanical Behaviour of Single Crystal Superalloy SC16 under Hold Time LCF Loading

ECCC Creep Conference

London 12. Sep - 14. Sep 2005

Oral

Zizak, I., Darowski, N., Schumacher, G., Richter, E.

HE CLUSTER IN TITANIUM ALLOYS

European Materials Society Spring Meeting 2005

Strasbourg 31. May - 03. Jun 2005

Oral

Zizak, I.; Darowski, N.

Experimental Stations for Near-Surface X-Ray Scattering at BESSY

MDN and DYNASYNC workshop on Dynamics in Nanoscale Systems

Raach, Österreich 30. Jan - 03. Feb 2005

SF1 - Methods and Instruments

SF1.Dynamics

Invited Talk

Vorderwisch, P.; Shapiro, S.M.; Stuhr, U.

Phonon dispersion and lattice instabilities in the ferromagnetic shape-memory alloy Ni₂MnGa studied by neutron spectroscopy

Workshop on Magnetic Shape Memory Alloys

Ascona, Switzerland 11. Sep - 16. Sep 2005

Oral

Vorderwisch, P.; Shapiro, S.M.; Stuhr, U.

Phonon dispersion in the ferromagnetic shape-memory alloy Ni₂MnGa studied by neutron spectroscopy

International Conference on Martensitic Transformations / ICOMAT'05

Shanghai, China 14. Jun - 17. Jun 2005

SF1.Methods

Poster

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

Evolutionary Programming Neutron Instrument Optimisation

International Conference on Neutron Scattering

Sydney, Australia 27. Nov - 02. Dec 2005

Oral

Clemens, D.; Mezei, F.

Neutron trajectory definition by multi-pinhole grids

International Conference on Neutron Scattering 2005

Sydney, Australien 27. Nov - 02. Dec 2005

Poster

Krist, T.

Neutron optics state of the art in polarisation and collimation

International Workshop on Reflectometry, Off-specular scattering and GISANS
Villigen PSI 23. Oct - 26. Oct 2005

Poster

Krist, T.

Neutron optics from HMI Berlin

ICNS2005
Sydney, 27. Nov - 02. Dec 2005

Oral

Krist, T.

Solid state devices

3rd General NMI3 Meeting
RAL, Didcot, GB 26. Sep - 29. Sep 2005

Poster

Krist, T.

Test of a two dimensional neutron spin analyzer

ICNS2005
Sydney, Australien 27. Nov - 02. Dec 2005

Poster

Krist, T., Hoffmann, J., Mezei, F.

Neutron optical elements from HMI

BENSC User Meeting
HMI Berlin 22. Sep - 23. Sep 2005

Invited Talk

Krist, Th.

Neutron optics from HMI Berlin

Hanaro 2005 International Symposium on Reactor Research and Neutron Science
Daejeon 11. Apr - 13. Apr 2005

Invited Talk

Steitz, R.

How to investigate ultrathin films on liquid surfaces - a neutron reflectivity approach

Earthscience and nanoscience with neutrons at IBR-2/IBR-2M (JINR Dubna)
GFZ Potsdam 05. Sep - 06. Sep 2005

Poster

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

Stress dependence in Si-FeCo multilayers on sputter parameters

ICNS2005
Sydney, Australien 27. Nov - 02. Dec 2005

SF1.Spallation

Invited Talk

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

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

International Conference on Accelerator Applications 2005
Venice, Italy 29. Aug - 01. Sep 2005

Oral

Peters, J.; Mezei, F.

General time-of-flight technique for high resolution diffraction on continuous and pulsed sources

ICANS-XVII

Santa Fe, New Mexico, USA 25. Apr - 29. Apr 2005

SF3.Microstructure

Poster

Wollgarten, M., Hiller, S.; Vierke, J.; Haibel, A.; Schubert-Bischoff, P.; Sahoo, K.L.; Banhart, J.

Study of the Microstructure of Rapidly Solidified Al-Ni-La-Zr Alloys by Synchrotron-Tomography and Transmission Electron Microscopy

Microscopy Conference, Dreiländertagung

Davos, Switzerland 28. Aug - 02. Sep 2005

SF3.Others

Poster

Manke, I.; Kardjilov, N.; Haibel, A.; Hartnig, C.; Strobl, M.; Rack, A.; Hilger, A.; Scholta, J.; Lehnert, W.;

Treimer, W.; Zabler, S.; Banhart, J.

Untersuchung der Wasserverteilung in Brennstoffzellen

DGZfP Jahrestagung 2005

Rostock, Germany 02. May - 04. May 2005

Oral

Manke, I.; Stobl, M.; Kardjilov, N.; Hilger, A.; Scholta, J.; Lehnert, W.; Treimer, W.; Banhart, J.

Neutron radiography on fuel cells

69. Jahrestagung der Deutschen Physikalischen Gesellschaft

Berlin, Germany 04. Mar - 09. Mar 2005

SF2 - Magnetism

SF2.Bulk magnetism

Invited Talk

Feyerherm, R.

Quantum sine-Gordon behaviour in copper pyrimidine dinitrate

Symposium

Königstein (Taunus) 17. Oct - 19. Oct 2005

Oral

Feyerherm, R.; Zvyagin, S.A.; Wolter, A.U.B.

Quantum sine-Gordon behaviour in copper pyrimidine dinitrate

DPG Frühjahrstagung

Berlin 04. Mar - 09. Mar 2005

Poster

Tennant, D.A.; McLain, S.E.; Turner, J.F.C.; Barnes, T.

Magnetic excitations in exotic silver(II) fluorides

ICNS 2005

Sydney, Australia 27. Nov - 02. Dec 2005

Invited Talk

Tennant, D.A.; Roger, M.; Morris J.; Goff J.P.; Gutmann, M.J.; Lake, B.; Prabhakaran, D.

Sodium ordering in Na_xCoO_2

Invited Talk at Theoretical and Experimental Magnetism Workshop 2005

Coseners House, Abingdon, UK 02. Aug - 03. Aug 2005

SF2.Others

Invited Talk

*Krappe, H.-J.***Bayesian methods in the evaluation of scattering data**

XII Nuclear Physics Workshop Maria and Pierre Curie

Kazimierz Dolny, Poland 21. Sep - 25. Sep 2005

Invited Talk

*Tennant, D.A.***Advances in studying molecular magnets with neutrons**

Osnabrück workshop on nanomagnets

University of Osnabrück 17. Nov - 19. Nov 2005

Invited Talk

*Tennant, D.A.***Neutrons, Magnetic fields, and Quantum States**

FOM December Days (Plenary)

Veldhoven, NL 13. Dec - 14. Dec 2005

SF3 - Materials

SF3.Light weight mat.

Oral

*Babcsán, N.; Garcia-Moreno, F.; Banhart, J.***Role of oxidation during Blowing of Aluminium Foams by External Gas Injection**

MetFoam 2005

Kyoto, Japan 21. Sep - 23. Sep 2005

Invited Talk

*Banhart, J.***Aluminium Foam Technology - Towards Industrial Implementation**

53rd Indian Foundry Congress

Kalkutta, Indien 21. Jan - 23. Jan 2005

Invited Talk

*Banhart, J.***Metal foams: the mystery of stabilisation**

MetFoam 2005

Kyoto, Japan 21. Sep - 23. Sep 2005

Invited Talk

*Banhart, J.***Metal foams - from fundamental research to applications**

International Symposium on Frontiers in Design of Materials

Chennai, India 12. Nov - 13. Nov 2005

Oral

*Degischer, H.P.; Babcsan, N.; Leitmeier, D.***Rolle der Keramikeilchen beim Aufschäumen von Al-Schmelzen**

Verbundwerkstofftagung 2005

Kassel, Germany 06. Apr - 06. Apr 2005

Oral

*Garcia-Moreno, F.; Babscán, N.; Banhart, J.***The Role of the Gas Pressure on the Foaming of Metals following the PM-route**

MetFoam 2005

Kyoto, Japan 21. Sep - 23. Sep 2005

Poster

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

Investigation of the Influence of Blowing Agent and Alloy Composition on the Foaming Behaviour of Thixocast AlSi6Cu4 Precursor Material

Cellmet 2005

Dresden, Germany 17. May - 20. May 2005

Oral

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

Diffusion in Al-Ni-Ce Melts

TMS 2005

San Francisco 13. Feb - 17. Feb 2005

Invited Talk

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

Diffusion in AlNi- und AlNiCe-Schmelzen

Kolloquium des Schwerpunktprogramm 1120 der DFG, Phasenumwandlung in mehrkomponentigen Schmelzen, Physik Zentrum Bad Honnef

Bad Honnef 19. May - 20. May 2005

Oral

Griesche, A.; Macht, M.-P.; Schmid-Fetzer, R.; Frohberg, G.

Diffusion in AlNiCe melts near the liquidus temperature

DPG-Frühjahrstagung

Berlin 04. Mar - 09. Mar 2005

Poster

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

Metalfoaming with new aluminium alloys

Cellmet 2005

Dresden, Germany 17. May - 20. May 2005

Poster

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

Influence of the alloying additions on the foaming behaviour of thixocast AlSi11 precursor

MetFoam 2005

Kyoto, Japan 21. Sep - 23. Sep 2005

SF3. Microstructure

Oral

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

The Re-alloyed Inconel 706 alloy: 3DAP Measurements

European Congress on Advanced Materials and Processes

Prag, Czech Republic 05. Sep - 08. Sep 2005

Oral

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

Molecular dynamics simulation of martensite phase transformations in NiAl alloys

SOLID-SOLID PHASE TRANSFORMATIONS IN INORGANIC MATERIALS 2005

Phoenix, AZ., USA 29. May - 03. Jun 2005

Oral

Mechler, S.; Abromeit, Ch.; Wanderka, N.; Macht, M.-P.; Schumacher, G.; Schattat, B.; Klaumünzer, S.

Reversible Phase Transformation between amorphous and quasicrystalline state of ZrTiNiCu.

DPG Frühjahrstagung 2005

Berlin 04. Mar - 04. Mar 2005

Invited Talk

Wanderka, N.

3-dimensional atom probe: New dimensions in material science

International School for Young Scientists of Nuclear Physics and Energy

Alushta, Ukraine 12. Jun - 18. Jun 2005

Poster

Wollgarten, M., Hiller, S.; Vierke, J.; Haibel, A.; Schubert-Bischoff, P.; Sahoo, K.L.; Banhart, J.

Study of the Microstructure of Rapidly Solidified Al-Ni-La-Zr Alloys by Synchrotron-Tomography and Transmission Electron Microscopy

Microscopy Conference, Dreiländertagung

Davos, Switzerland 28. Aug - 02. Sep 2005

Oral

Wollgarten, M.; Sahoo, K. L.; Haug, J.; Banhart, J.

Der Einfluß von La auf das Kristallisationsverhalten von amorphen $Al_{94-x}Ni_6La_x$ ($x=4-7$) Legierungen

Frühjahrstagung der DPG, Arbeitskreis Festkörperphysik,

Berlin 04. Mar - 09. Mar 2005

SF3.Nanostructures

Oral

Haug, J.; Hoell, A.; Heinemann, A.; Kammel, M.; Keiderling, U.; Wiedenmann, A.

Small angle scattering facilities at HMI

Industrietag des HMI

Berlin, Germany 01. Jun - 01. Jun 2005

Oral

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

Evolution of pore microstructure in Thermal Barrier Coatings studied by SANS

International Conference on Neutron Scattering 2005

Darling Harbour, Sydney, Australia 27. Nov - 02. Dec 2005

Poster

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

Evolution of pore microstructure in Thermal Barrier Coatings studied by SANS

Intern. Conf. On Neutron Scattering

Sydney, Australien 28. Nov - 02. Dec 2005

Poster

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

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

Intern. Conf. On Neutron Scattering

Sydney, Australien 28. Nov - 02. Dec 2005

Oral

Heinemann, A.; Wiedenmann, A.; Kammel, M.; Buske, N.

SANS investigation of field induced structures in very high concentrated Fe_3O_4 based ferrofluids

Ferrofluids Workshop

Saarbrücken 12. Jun - 15. Jun 2005

Poster

Heinemann, A.; Wiedenmann, A.; Kammel, M.; Buske, N.

SANS investigation of inter-particle correlations in concentrated Fe_3O_4 ferrofluids

BENSC Usermeeting

Berlin, Germany 22. Sep - 22. Sep 2005

Poster

Heinemann, A.; Wiedenmann, A.; Kammel, M.; Buske, N.

SANS investigation of inter-particle correlations in concentrated Fe₃O₄ ferrofluids

Ferrofluid workshop

Saarbrücken, Germany 20. Jul - 22. Jul 2005

Oral

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

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

International Conference on Neutron Scattering 2005

Darling Harbour, Sydney, Australia 27. Nov - 02. Dec 2005

Poster

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

Evidence for oxide coating in air stable Co-ferrofluids

BENSC Usermeeting

Berlin, Germany 22. Sep - 22. Sep 2005

Poster

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

Oxide coating of Co-Ferrofluids studied by polarized SANS

International Conference on Neutron Scattering 2005

Darling Harbour, Sydney, Australia 27. Nov - 02. Dec 2005

Poster

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

Evidence for oxide coating in air stable Co-ferrofluids

6. Ferrofluid-Workshop

Universität des Saarlandes, Saarbrücken 20. Jul - 22. Jul 2005

Poster

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

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

International Conference on Neutron Scattering 2005

Darling Harbour, Sydney, Australia 27. Nov - 02. Dec 2005

Oral

Perroud, O.; Garcia-Matres, E.; Kumar, G.; Eckert, J.; Wiedenmann, A.

Small Angle Neutron Scattering studies of hard magnetic Nd₆₀Fe_{30-x}Co_xAl₁₀ bulk amorphous alloys

RQ 12

Jeju, Korea 21. Aug - 26. Aug 2005

Oral

Perroud, O.; Wiedenmann, A.; Garcia-Matres, E.

Small Angle Neutron Scattering Investigations in Nd-based alloys

DFG-Kolloquium SPP1120

Bad Honnef, Germany 19. May - 19. May 2005

Oral

Perroud, O.; Wiedenmann, A.; Holland-Moritz, M.; Herlach, G.

SANS an unterkühlten Schmelzen

DPG Frühjahrstagung

Berlin, Germany 04. Mar - 09. Mar 2005

Oral

Pop, L.P.; Odenbach, S.; Wiedenmann, A.

Microstructure and rheological characterisation of ferrofluids

Int. Conf. on Neutron Scattering

Sydney, Australien 28. Nov - 02. Dec 2005

Oral

Pop, L.P.; Odenbach, S.; Wiedenmann, A.

Magnetoviscous effect in Co based ferrofluids analysed by SANS

Ferrofluid Workshop

Saarbrücken, Germany 20. Jul - 22. Jul 2005

Invited Talk

Wiedenmann

SANS facility at BENSC

Workshop on benchmarking for small-angle scattering

Berlin, Germany 20. Sep - 20. Sep 2005

Invited Talk

Wiedenmann, A.

Introduction to SANS

HMI Tutorial BENSC

Berlin 21. Sep - 21. Sep 2005

Invited Talk

Wiedenmann, A.

Magnetic Nanostructures as Probed by Polarized Small Angle Neutron Scattering

NIM3-School "Polarized Neutrons for Material and Life Sciences

Anglet, France 07. Jun - 07. Jun 2005

Invited Talk

Wiedenmann, A., Kammel, M., Heinemann, A.

Magnetic Nanostructures Studied by Polarized Small Angle Neutron Scattering

International Symposium on Research Reactor and Neutron Science

Daejeon, Korea, 11. Apr - 13. Apr 2005

Poster

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

Dynamics of Field Induced Ordering Processes in Ferrofluids Studied by Polarised Small Angle Neutron Scattering

International Conference on Neutron Scattering

Sydney, Australien 27. Nov - 02. Dec 2005

Poster

Wiedenmann, A.; May, R.P.; Dewhurst, C.; Haug, J.; Heinemann, A., Kammel, M.; Keiderling, U.

Time dependence of field induced ordering processes in Ferrofluids studied by Small Angle Neutron Scattering

BENSC Usermeeting

Berlin, Germany 22. Sep - 22. Sep 2005

Invited Talk

Wiedenmann, A.; May, R.P.; Dewhurst, C.; Haug, J.; Heinemann, A.; Kammel, M.; Keiderling, U.

SANS Study of Time Dependent Ordering Processes in Concentrated Ferrofluids Induced by External Magnetic Fields

6th Ferrofluid workshop Saarbrücken

Saarbrücken, Germany 20. Jul - 20. Jul 2005

Poster

Wiedenmann, A.; May, R.P.; Dewhurst, C.; Haug, J.; Heinemann, A.; Kammel, M.; Keiderling, U.

Time dependence of field induced ordering processes in Ferrofluids studied by Small Angle Neutron Scattering

DFG Kolloquium SPP 1104

Benediktbeuren, Germany 28. Nov - 28. Nov 2005

Invited Talk

Wiedenmann, A.; May, R.P.; Heinemann, A.; Kammel, M.; Keiderling, U.

SANS study of time dependent ordering processes in concentrated Ferrofluids by external magnetic fields

15. PAMIR Int. Conf. on Fundamental and Applied MHD

Riga 27. Jun - 27. Jun 2005

Oral

Wollgarten, M.; Sahoo, K.L.; Haug, J.; Banhart, J.

Influence of La on the crystallisation behaviour of amorphous $Al_{94-x}Ni_6La_x$ ($x=4-7$) alloys

RQ 12

Jeju, Korea 21. Aug - 26. Aug 2005

SF3.Others

Invited Talk

Abromeit, C.

Local phase transformations under irradiation - Some basic experiments and theoretical descriptions

International School for young scientists on nuclear physics and energy

Alushta, Ukraine 12. Jun - 18. Jun 2005

Invited Talk

Hoell, A.

The new SAXS instrument at Bessy 7T-Wiggler

Benchmarking zur Kleinwinkelstreuung

Berlin, Germany 20. Sep - 20. Sep 2005

Oral

Hoell, A.

Untersuchung von Nanostrukturen mit Synchrotron-Kleinwinkelstreuung

HMI-Industrietag

Berlin, Germany 01. Jun - 01. Jun 2005

Oral

Hoell, A.; Heinemann, A.; Kammel, M.; Wiedenmann, A.

Nanostructure and ordering in magnetic liquids probed by SAXS and SANS

International Union of Crystallography

Florenz, Italy 23. Aug - 31. Aug 2005

Poster

Manke, I.; Haibel, A.; Rack, A.; Kardjilov, N.; Hilger, A.; Melzer, A.; Banhart, J.

Untersuchung von Alkaline-Batterien mit bildgebenden Verfahren

DGZfP Jahrestagung 2005

Rostock, Germany 02. May - 04. May 2005

Poster

Manke, I.; Kardjilov, N.; Haibel, A.; Hartnig, C.; Strobl, M.; Rack, A.; Hilger, A.; Scholta, J.; Lehnert, W.;

Treimer, W.; Zabler, S.; Banhart, J.

Untersuchung der Wasserverteilung in Brennstoffzellen

DGZfP Jahrestagung 2005

Rostock, Germany 02. May - 04. May 2005

Oral

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

Neutron radiography on fuel cells

69. Jahrestagung der Deutschen Physikalischen Gesellschaft

Berlin, Germany 04. Mar - 09. Mar 2005

Oral

Wanderka, N.; Davydov, E.; Macht, M.-P.

Decomposition and Crystallization Behavior of Pd₄₀Cu₃₀Ni₁₀P₂₀ Bulk Metallic Glass

Frühjahrstagung DPG 2005

Berlin, HU 04. Mar - 04. Mar 2005

Oral

Wanderka, N.; Schiffmann, R.; Banhart, J.

Characterization of precipitates in aluminum based alloy AW 6016

Frühjahrstagung DPG 2005

Berlin, HU 04. Mar - 04. Mar 2005

SF4.Structures

Poster

Strunz, P., Schumacher, G., Vassen, R., Wiedemann, A.

In-situ Small-Angle Neutron Scattering Study of Novel Ceramic Materials for Thermal Barrier Coatings

EUROMAT 2005

Prag 05. Sep - 08. Sep 2005

SF4 - Structure and Dynamics

SF3.Microstructure

Oral

Mechler, S., Abromeit, Ch., Wanderka, N., Macht, M.-P., Schumacher, G., Schattat, B., Klaumünzer, S.

Reversible Phase Transformation between amorphous and quasicrystalline state of ZrTiNiCu.

DPG Frühjahrstagung 2005

Berlin 04. Mar - 04. Mar 2005

SF4.Dynamics

Invited Talk

Grande, P.L.; Schiwietz, G.; Hentz, A.

Observation of collective inner-shell effects for protons backscattered from the Al(110) surface

24th Int. Conf. on the Physics of Electronic and Atomic Collisions (ICPEAC)

Rosario/Argentina 20. Jul - 26. Jul 2005

Invited Talk

Grande, P.L.; Schiwietz, G.; Hentz, A.

Ab-initio calculations of the surface peak

3rd International Workshop on High-Resolution Depth Profiling

Bar Harbor/ Maine, USA 23. May - 26. May 2005

Oral

Klaumünzer, S.

Ripple formation on glassy surfaces during high-energy ion bombardment

348.WE-Heraeus Seminar, Ions at Surfaces: Patterns and Processes

Bad Honnef 19. Jun - 23. Jun 2005

Invited Talk

Mahnke, H.-E.

Structural Analysis with Synchrotron Radiation

French-German Summer School PIANO Physics with Ions - from Analysis to Nanotechnology, Blainville/Mer (Normandie), Frankreich, 19.-26.9.2005

Blainville/Mer (Normandie), Frankreich 19. Sep - 26. Sep 2005

Oral

Mahnke, H.-E.

Ionenstrahlinduzierte Silbermetall-Nanocluster in Gläsern

Workshop

Leipzig 11. Apr - 12. Apr 2005

Oral

Mahnke, H.-E.

Ion beam induced nano-sized Ag metal clusters in glass

Arbeitstreffen Forschung mit nuklearen Sonden und Ionenstrahlen FSI 2005

München 06. Oct - 07. Oct 2005

Oral

Mahnke, H.-E.; Schattat, B.; Koteski, V.; Novakovic, N.

Ion-beam induced nanosized silver metal clusters in glass

DPG Frühjahrstagung

Berlin 04. Mar - 09. Mar 2005

Oral

Roth, M.; Schiwietz, G.; B. Schattat, K. Czerski, F. Staufenbiel

Short-time processes at surfaces

Workshop

Leipzig 11. Apr - 12. Apr 2005

Oral

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

Angular distribution of Auger electrons as a consequence of the irradiation of Be and Al with swift gold ions

6th International Symposium on Swift Heavy Ions in Matter (SHIM 05)

Aschaffenburg 28. Mar - 31. Mar 2005

Invited Talk

Schiwietz, G.

Solid matter under extreme conditions - Electronic excitations by swift highly charged ions

Jahrestagung der Deutschen Physikalischen Gesellschaft (DPG, Dünne Schichten)

Berlin 04. Mar - 09. Mar 2005

Invited Talk

Schiwietz, G.

Electrons as a tool for short-time track characterisations (invited talk)

6th Int. Symposium on Swift Heavy Ions in Matter (SHIM2005)

Aschaffenburg, Germany 27. May - 31. May 2005

Invited Talk

Schiwietz, G.

Electron spectroscopy for short-time physics

17th Int. Conf. on Ion-Surface Interactions ISI-2005

Zvenigorod 25. Aug - 29. Aug 2005

Invited Talk

Schiwietz, G.

Auger Spectroscopy for Short-time Ion-Solid Interactions

Symposium on 'Recent advances on the dynamics of atomic and molecular particles interacting with gas and solid targets'

San Sebastian (Spain) 24. Oct - 26. Oct 2005

Invited Talk

Schiwietz, G.

Ion induced Auger angular distributions

Workshop on 'New Trends in Ion Beam Research'

Gramado, Brazil 14. Nov - 16. Nov 2005

SF4.Structures

Invited Talk

*Klaumünzer, S.***Modification of nanostructures by swift heavy ions**

Indo German Workshop on Synthesis and Modification of Nanostructured Materials by Energetic Ion Beams

New-Delhi 20. Feb - 24. Feb 2005

Invited Talk

*Mahnke, H.-E.***Lattice relaxation around impurity atoms as dopants in semiconductors**

Freiberger Forschungsforum, 56. Berg- und Hüttenmännischer Tag 2005, Freiberg, 15.-17.6.2005

Freiberg 15. Jun - 17. Jun 2005

Poster

*Strunz, P., Schumacher, G., Vassen, R., Wiedemann, A.***In-situ Small-Angle Neutron Scattering Study of Novel Ceramic Materials for Thermal Barrier Coatings**

EUROMAT 2005

Prag 05. Sep - 08. Sep 2005

Invited Talk

*Zeitz, W.-D.***Magnetismus an Oberflächen**

Institutsseminar, Friedrich-Schiller-Universität Jena, Physikalisch-Astronomische Fakultät

Jena, Deutschland 19. May - 19. May 2005

Invited Talk

*Zeitz, W.-D.; Brewer, W.D.; Prandolini, M.; Manzhur, Y.; Bertschat, H.H.; Imielski, P.; Schubert, J.***Abhängigkeit des magnetischen Hyperfeinfeldes auf Oberflächen von der Koordinationszahl**

Workshop

Leipzig, Deutschland 11. Apr - 12. Apr 2005

Poster

*Zeitz, W.-D.; Timmers, H.; Shrestha, K.***Magnetism of Isolated Atoms at Surfaces and in Vacancy-Related Complexes**

16th National Congress 2005, Australian Institute of Physics

Canberra/ Australia 31. Jan - 04. Feb 2005

SF5 - Theory

SF5.Biosystems

Poster

*Falcke, M.***Modelling from the single subunit to cell level**

5. Gordon Research Conference on Calcium Signalling

Oxford 24. Jul - 29. Jul 2005

Oral

*Falcke, M.***Intracellular Ca²⁺ dynamics: Fluctuations and global signals**

Spatial effects in signal transduction

Aspen, 22. Aug - 11. Sep 2005

Invited Talk

*Falcke, M.***Dynamic models of cell signalling**

Biocomputing

Heidelberg 21. Nov - 22. Nov 2005

Invited Talk

Falcke, M.

Intracellular Ca²⁺ dynamics: Gradients and fluctuations

Annual Colloquium of Priority Research Programme SPP 1095 Analysis,
Bonn 27. Jun - 29. Jun 2005

Invited Talk

Falcke, M.

Recent developments in modeling of intracellular calcium dynamics

ECMTB Conference 2005
Dresden 18. Jul - 22. Jul 2005

Poster

Falcke, M.

Release currents of IP₃R channels and channel clusters

5. Gordon Research Conference on Calcium Signalling
Oxford 24. Jul - 29. Jul 2005

Invited Talk

Falcke, M., Thul, R.

Transition from local to global events in a stochastic medium

DPG Frühjahrstagung 2005
Berlin 04. Mar - 09. Mar 2005

Poster

Höfling, F.; Franosch, T.; Frey, E.

Localisation transition of the Lorentz gas and continuum percolation

347. WE-Heraeus-Seminar
Bad Honnef 22. May - 26. May 2005

Invited Talk

Rüdiger, S.

Numerical simulations of intracellular calcium dynamics

Theory and Applications of Coupled Cell Networks
UNIVERSITY OF CAMBRIDGE 26. Sep - 30. Sep 2005

Oral

Rüdiger, S.

Numerical simulation of intracellular calcium dynamics

Multiscale Modeling in Biology
MPI Mathematics in the Sciences, Leipzig 18. Apr - 20. Apr 2005

Poster

Rüdiger, S., M. Falcke

Hybrid simulations of intracellular calcium dynamics

European Conference on Mathematical and Theoretical Biology
Dresden 18. Jul - 22. Jul 2005

Oral

Skupin, A.; R. Thul; H. Kettenmann; M. Falcke

Locally resolved Ca dynamics in astrocytes

Bioinformatics and System Biology
Berlin 22. Aug - 25. Aug 2005

Poster

Skupin, A.; R. Thul; H. Kettenmann; M. Falcke

Locally resolved Ca dynamics in astrocytes

Bioinformatics and System Biology
Berlin 22. Aug - 25. Aug 2005

Poster

Thul, R.; Falcke, M.

Fokker-Planck equations for IP3 mediated Calcium dynamics

1st FEBS Advanced Lecture Course

Gosau 12. Mar - 18. Mar 2005

Invited Talk

Thul, R.; Falcke, M.

Intracellular Calcium: a stochastic medium

Dynamics Days 2005

Berlin 25. Jul - 28. Jul 2005

Oral

Thul, R.; Falcke, M.

Fokker-Planck equations for IP3 mediated Ca²⁺ dynamics

ECMTB 2005

Dresden 18. Jul - 22. Jul 2005

SF5.Others

Invited Talk

Gross, D.H.E.

Microcanonical Thermostatistics, the fundament of Thermodynamics, The errors of conventional canonical Thermostatistics; Negative heat capacity. Heat can flow from cold to hot. (Contrast to Clausius) The proper treatment of Phase Separation after 150 years of Statistical Mechanics: From Nuclei to Stars

Statistical Mechanics of Non-Extensive Systems, Session I - Statistical mechanics of collisionless stellar systems

Observatoire de Paris 24. Oct - 25. Oct 2005

Invited Talk

Gross, D.H.E.

Nuclear statistics, microcanonical or canonical ?

The physicists vs. the chemists approach

XLIII INTERNATIONAL WINTER MEETING

Bormio, Italien 13. Mar - 20. Mar 2005

Invited Talk

Gross, D.H.E.

Microcanonical Thermodynamics is the statistical fundament of Thermodynamics, heat can flow from cold to hot, and nuclear multifragmentation.

VI Latin American Symposium on Nuclear Physics and Applications

Iguazú, Argentina. 03. Oct - 07. Oct 2005

Invited Talk

Gross, D.H.E.

Microcanonical Thermostatistics as Foundation of Thermodynamics. The microscopic origin of phase separation.

International Conference NEXT-SigmaPhi - News, Expectations and Trends in Statistical Physics, Kolymbari (CRETE) at the Orthodoxy Academy of Crete.

Kolymbari 13. Aug - 18. Aug 2005

Invited Talk

Gross, D.H.E.

Microcanonical Thermostatistics as foundation of Thermodynamics. The microscopic origin of condensation and phase separations.

IX.th Research Workshop Nucleation Theory and Applications Dubna, Russia, June 20 - July 20, 2005

Dubna, Russland 20. Jun - 20. Jul 2005

Invited Talk

Gross, D.H.E.

Links to Thermodynamics and General (equilibrium) Physics

World Consensus Initiative, Texas A&M University College Station, TX, USA

College Station, TX, USA 12. Feb - 16. Feb 2005

SF5.Soft Matter

Poster

Höfling, F.; Franosch, T.; Frey, E.

Simulation of the localisation transition of the Lorentz gas

DPG Frühjahrstagung 2005

Berlin 04. Mar - 09. Mar 2005

Poster

Höfling, F.; Franosch, T.; Frey, E.

The Localisation Transition of the 3D Lorentz Model and Continuum Percolation

Jülich Soft Matter Days 2005

Bonn 01. Nov - 04. Nov 2005

Oral

Kroy, K.

Shear-driven flocculation of sticky spheres: crossover from kinetic aggregation to anisotropic percolation

Dynamical Arrested State of Soft Matter and Colloids

Bad Gastein 22. Jan - 26. Jan 2005

SF6 - Trace Elements

SF6.Analysis

Oral

Behne, D.; Alber, D.; Kuehbacher, M.; Wolf, C.; Plotnikov, A.; Kyriakopoulos, A.

Element analytical methods: useful aides and essential partners in trace element and metalloprotein research

12th International Symposium on Trace Elements in Man and Animals

Coleraine, Northern Ireland 19. Jun - 23. Jun 2005

Oral

Behne, D.; Kyriakopoulos, A.

Selenium and selenoproteins in health and disease

8th International Conference on Nuclear Analytical Methods in the Life Sciences (NAMLS8)

Rio de Janeiro, Brazil 17. Apr - 23. Apr 2005

Oral

Behne, D.; Kyriakopoulos, A.

Applications of element analytical methods in metalloproteomics

8th International Conference on Nuclear Analytical Methods in the Life Sciences (NAMLS8)

Rio de Janeiro, Brazil 17. Apr - 23. Apr 2005

Oral

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

Development of a method for analyzing selenium and zinc in very small sample amounts of human sperm nuclei with the instrumental neutron activation analysis (INAA)

20. Seminar Aktivierungsanalyse

München 23. Feb - 25. Feb 2005

Poster

Bukalis, K.; Alber, D.; Bukalis, G.; Kyriakopoulos, A.; Behne, D.

Determination of Trace Elements in Tissues of Selenium-Adequate and Selenium-Deficient Rats by Means of Instrumental Neutron Activation Analysis

20 Seminar Aktivierungsanalyse

München 23. Feb - 25. Feb 2005

Poster

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

Studies on the selenoproteome in the respiratory tract: Subcellular distribution of selenium and selenium-containing proteins in the lung and trachea of the rat.

FEBS 2005

Budapest, Hungary 02. Jul - 07. Jul 2005

Poster

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

METALLOPROTEINS AND SELENEOPROTEINS IN THE PROSTATE

Gemeinsame Herbsttagung HMI-GSF

HMI Berlin 24. Nov - 25. Nov 2005

Poster

Knispel, T.; Kühbacher, M.; Denkhaus, E.; Prange, A.; Kyriakopoulos, A.; Behne, D.

Nickel species analysis of human colonic tissue using Liquid Chromatography, Gel Electrophoresis and Mass-Spectrometry

European Winter Conference on Plasma Spectrochemistry

Budapest, Hungary 30. Jan - 03. Feb 2005

Poster

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

Trace element research with Synchrotron Light

5th International Symposium on Trace Elements in Human: New Perspectives

Athens, Greece 13. Oct - 15. Oct 2005

Oral

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

Chemical imaging of trace elements with Synchrotron Light

5th International Symposium on Trace Elements in Human: New Perspectives

Athen, Griechenland 13. Oct - 15. Oct 2005

Oral

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

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

21. Jahrestagung Gesellschaft für Mineralstoffe und Spurenelemente e.V., -

Vienna, Austria 28. Oct - 29. Oct 2005

Oral

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

Bildgebende chemische Analytik von metall- und metalloidgehaltigen Proteinen mit spektroskopischen Methoden an Synchrotronstrahlungsquellen

Workshop des Arbeitskreises Trace Elements and Electrolytes

Gelsenkirchen, Germany 10. Dec - 10. Dec 2005

Oral

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

Selenomics and Metalloproteomics at the Synchrotron - Frequently Asked Questions - different Animal Models, different Methods, different Answers

Gemeinsame Herbsttagung HMI-GSF

HMI-Berlin 24. Nov - 25. Nov 2005

Poster

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

Chemical Imaging von metall- und metalloidgehaltigen Proteinen im zentralen Nervensystem

21. Jahrestagung Gesellschaft für Mineralstoffe und Spurenelemente e.V., -

Vienna, Austria 28. Oct - 29. Oct 2005

Oral

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

Spurenelementforschung an Synchrotronstrahlungseinrichtungen - Fragestellungen und Methoden

GKSS am HASYLAB

Hamburg, Germany 27. Jul - 27. Jul 2005

Poster

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

Localization of trace elements in the central nervous system by micro-synchrotron radiation X-ray fluorescence

Trace Elements in Man and Animals, Scientific developments, Novel Applications and Progress into the 21st Century

Coleraine, Northern Ireland 19. Jun - 23. Jun 2005

Poster

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

Elemental mapping of histological sections of the brain and the reproductive system by Microprobe-Synchrotron Radiation X-Ray Fluorescence Analysis

HASYLAB users' meeting

Hamburg, Germany 28. Jan - 28. Jan 2005

Oral

Lenz, A.G.; Hinze-Heyn, H.; Brielmeier, M.; Bukalis, K.; Kyriakopoulos, A.; Schulz, H.; Maier, K.L.

LIPIDPEROXIDATION UND OXIDATION VON PROTEINEN IN ORGANEN VON RATTE UND MAUS BEI SELENMANGELERNÄHRUNG

Gemeinsame Herbsttagung HMI-GSF

HMI Berlin 24. Nov - 25. Nov 2005

Poster

Plotnikov, A.

Proteomics with SEC-ICP-MS: Increasing the Chromatographic Resolution by Signal Post-Processing

European Winter Conference on Plasmaspectrochemistry

Budapest, Hungary 30. Jan - 04. Feb 2005

Poster

Plotnikov, A.; Bertelsmann, H.; Kyriakopoulos, A.

Neue Beiträge zur Identifizierung von Proteinbänden nach der GE-Trennung mittels Laserablation-ICP-Massenspektrometrie

Gemeinsame Herbsttagung, HMI - GSF

HMI - Berlin 24. Nov - 25. Nov 2005

Oral

Plotnikov, A.; Bertelsmann, H.; Kyriakopoulos, A.

Scanning Laser Ablation ICP Mass Spectrometry as a Tool for Biological Investigations: Theory and Applications

Gemeinsame Herbsttagung HMI-GSF

HMI Berlin 24. Nov - 25. Nov 2005

Poster

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

Expression of proteins in the prostate of selenium deficient and selenium adequate rats

Gemeinsame Herbsttagung HMI-GSF

HMI 24. Nov - 25. Nov 2005

Poster

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

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

21. Jahrestagung Gesellschaft für Mineralstoffe und Spurenelemente e.V., -
Vienna, Austria 28. Oct - 29. Oct 2005

SF6.Clinical app.

Invited Talk

Brielmeier, M.; Aichler, M.; Behne, D.; Schmid, R.; Schmidt, J.

The Selenium Platform: Selenium Deficiency as Pathogenic Factor

Gemeinsame Herbsttagung HMI-GSF
HMI Berlin 24. Nov - 25. Nov 2005

Poster

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

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

Gemeinsame Herbsttagung HMI-GSF
HMI Berlin 24. Nov - 25. Nov 2005

SF6.NAA

Poster

Bukalis, G.; Alber, D.; Stanik, B.; Zimmer, A.

Bestrahlungsvorrichtungen und NAA am Berliner Forschungsreaktor BERII

Gemeinsame Herbsttagung HMI-GSF
HMI 24. Nov - 25. Nov 2005

Poster

Schwarm, A.; Ortmann, S.; Wolf, C.; Kühne, R.; Clauss, M.

Fluid and particle retention in the collared peccary (*Tayassu tajacu*), a non ruminating foregut fermenter

9th Congress of the European Society of Veterinary and Comparative Nutrition (ESVCN)
Turin, Italy 22. Sep - 24. Sep 2005

SF6.Proteins

Oral

Behne, D.; Alber, D.; Kuhbacher, M.; Wolf, C.; Plotnikov, A.; Kyriakopoulos, A.

Element Analytical Methods: Useful Aides and Essential Partners in Trace Element and Metalloprotein Research

Trace Elements in Man and Animals, Scientific developments, Novel Applications and Progress into the 21st Century
Coleraine, Northern Ireland 19. Jun - 23. Jun 2005

Oral

Behne, D.; Kyriakopoulos, A.

Essentielle und nicht-essentielle Spurenelemente als Bindungspartner von Proteinen

Gemeinsame Herbsttagung HMI-GSF
HMI-Berlin 24. Nov - 25. Nov 2005

Poster

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

Selenium content in equine semen and semen fractions and its relationship to chromatin integrity and foal birth rate

4th International Symposium on Stallion Reproduction
Hannover, Germany 21. Oct - 23. Oct 2005

Poster

Bertelsmann, H.; Roesick, U.; Özaslan, M.; Kyriakopoulos, A.; Alber, D.; Behne, D.

Role of selenium and zinc in human sperm nuclei

5th. Int. Symp. On Trace Elements in Human: New Perspectives

Athens, Greece 13. Oct - 15. Oct 2005

Oral

Bukalis K., Alber D., Behne D., Kyriakopoulos A.

Subcellular distribution of arsenic and arsenic-containing proteins in several tissues of the rat

Gemeinsame Herbsttagung HMI-GSF

HMI Berlin 24. Nov - 25. Nov 2005

Oral

Bukalis, K. Kyriakopoulos A., Alber D., Bukalis G., Behne, D.

Combination of element analytical methods and tracer techniques in the studies on the trace elements and trace element-binding proteins in tissues of the respiratory tract

Gemeinsame Herbsttagung HMI-GSF

HMI Berlin 24. Nov - 25. Nov 2005

Poster

Dalla Puppa, L.; Hoppe, B.; Savaskan, N.E.; Kyriakopoulos, A.; Behne, D.

Studies on the selenoproteome in the central nervous system: Selenium-containing proteins in different types of brain cells

TEMA 12, 12th International Symposium on Trace Elements in Man and Animals

Coleraine, Northern Ireland 19. Jun - 23. Jun 2005

Poster

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

PROTECTION OF MICROGLIAL CELLS AGAINST OXIDATIVE STRESS: ROLE OF SELENOPROTEINS.

Gemeinsame Herbsttagung HMI-GSF

HMI 24. Nov - 25. Nov 2005

Poster

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

Selenium and Microglia: Identification of Anti-Inflammatory Selenoproteins

VII. European Meeting on Glial Cell Functions in Health and Disease

Amsterdam, The Netherlands 17. May - 21. May 2005

Poster

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

Selenium attenuates oxidative stress responses through modulation of selenium-containing proteins in microglial cells

30th FEBS Congress - 9th IUBMB Conference

Budapest, Hungary 02. Jul - 07. Jul 2005

Poster

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

Selenocysteinylase im Metabolismus von Selen - eine Funktionsstudie

Gemeinsame Herbsttagung HMI-GSF

HMI Berlin 24. Nov - 25. Nov 2005

Poster

Grbavac, I., Wenda, N., Behne, D., Kyriakopoulos, A.

Distribution of trace element proteins in the prostate

5th International Symposium of Trace Elements in Human

Athens, Greece 13. Oct - 15. Oct 2005

Poster

Kyriakopoulos, A.

Redoxregulation of cell signaling by selenoproteins

2nd Functional genomics conference

Sevilla, Spain 10. Feb - 13. Feb 2005

Poster

Kyriakopoulos, A., Behne, D.

Selenoenzymes in the redox regulation

Bioscience, Biochemical society

Glasgow, Scotland 17. Jul - 21. Jul 2005

Oral

Kyriakopoulos, A., Graebert, A., Behne, D.

Regulation of cell signalling by selenoproteins

2nd Functional Genomics and Disease Conference

Oslo, Norway 06. Sep - 10. Sep 2005

Oral

Kyriakopoulos, A., Grbavac, I., Graebert, A., Behne, D.

Characterization of seleno-glycoproteins in the human plasma

Hupo 4th Annual World Congress

München 28. Sep - 01. Oct 2005

Oral

Kyriakopoulos, A., Wender, D., Behne, D.

Selenoproteom der Rattenprostata

21. Jahres Tagung der GMS

Wien, Österreich 28. Oct - 29. Oct 2005

Oral

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

Identification of the protein dermatopontin as a new copper-containing protein

Gemeinsame Herbsttagung HMI-GSF

HMI Berlin 24. Nov - 25. Nov 2005

Poster

Richter, A., Wolf, C., Plotnikov, A., Behne, D., Kyriakopoulos, A.

Vergleich der 2-DE Proteinexpressionsmuster von Herzhomogenaten von Selenmangel und selenadäquat ernährten Tieren

5th International Symposium of Trace Elements in Human

Athens, Greece 13. Oct - 15. Oct 2005

Invited Talk

Savaskan, N.E.; Bräuer, A.U.; Hahnen, E.; Kyriakopoulos, A.; Eyüpoglu, I.Y.

Inhibition of glioma cell growth and brain invasion by the trace element selenium

Gemeinsame Herbsttagung HMI-GSF

HMI Berlin 24. Nov - 25. Nov 2005

Poster

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

Incorrect expression of several prostate proteins by selenium deficiency

21. Jahrestagung Gesellschaft für Mineralstoffe und Spurenelemente e.V.

Vienna, Austria 28. Oct - 29. Oct 2005

Oral

Wolf, C.

Vorstellung der Abteilung SF6 im Rahmen des CERA contact workshop

HSTF-Helmholtz, Eötvös Loránd University

Budapest, Hungary 06. Jun - 07. Jun 2005

SF7 - Measurement instrumentation**SF7.Detector**

Oral

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

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

10th European Symposium on Semiconductor Detectors
Wildbad Kreuth, Germany 12. Jun - 16. Jun 2005

Poster

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

Readout electronics for imaging and time-of-flight applications with multi-channel counting mode radiation detectors in DETNI

14th IEEE-NPSS Real Time Conference
Stockholm 04. Jun - 10. Jun 2005

Oral

Gebauer, B.

Hybrid micro-strip gas chamber detector R&D

3rd Joint DETNI-MILAND Workshop
RAL Abington UK 26. Sep - 27. Sep 2005

Invited Talk

Gebauer, B.

Development of very-high rate and resolution thermal neutron detectors in DETNI

NMI3 3rd General Meeting
RAL Abington UK 28. Sep - 28. Sep 2005

Oral

Gebauer, B.

Design considerations for 25x parallel sorting on the DETNI front-end board (MSGC case)

6th DETNI ASIC Meeting
HMI Berlin 29. Jan - 29. Jan 2005

Invited Talk

Gebauer, B.; Alimov, S.S.; Brojna, A.S.; Buzzetti, S; Dabrowski, W.; Fiutowski, T.; Klein, M.; Petrillo, C; Sacchetti, F.; Schmidt, C.J.; Soltveit, H.K.; Szczygiel, R.; Trunk, U.; Turconi, C; Wilpert, Th.

Development of very-high rate and resolution neutron detectors in DETNI

XX Congress of the International Union of Crystallography
Florence 23. Aug - 31. Aug 2005

SF7.Others

Poster

Efimov, G.; von Oertzen, W.; Gebauer, B.; Thummerer, S.; Kokalova, Tz.; Wheldon, C.; Schulz, Ch.; Bohlen, H.G.; Napoli, D.R.; Lenzi, S.M.; Beck, C.; Rousseau, M.; Papka, P.; Kamanin, D.

Angular correlations of the decay channels of ⁵⁶Ni⁺ formed in the ²⁴Mg+³²S reaction

69. DPG Tagung
Berlin 04. Mar - 09. Mar 2005

Oral

Keyes, K.L.; Papenberg, A.; Chapman, R.; Ollier, J.; Liang, X.; Burns, M.J.; Labiche, M.; Spohr, K.M.; Amzal, N.; Beck, C.; Bednarczyk, P.; Haas, F.; Duch, G.; Papka, P.; Gebauer, B.; Kokalova, Tz.; Thummerer, S.; von Oertzen, W.

Spectroscopy of Ne, Na and Mg isotopes approaching the Island of Inversion

NUSTAR05

Guildford, UK 05. Jan - 08. Jan 2005

Oral

Keyes, K.L.; Papenberg, A.; Chapman, R.; Ollier, J.; Liang, X.; Burns, M.J.; Labiche, M.; Spohr, K.-M.; Amzal, N.; Beck, C.; Bednarczyk, P.; Haas, F.; Duch, G.; Papka, P.; Gebauer, B.; Kokalova, Tz.; Thummerer, S.; von Oertzen, W.; Wheldon, C.

Spectroscopy of Ne and Na isotopes: Preliminary results from a EUROBALL + Binary Reaction

Spectrometer experiment

ENAM04

Georgia, USA 12. Sep - 16. Sep 2005

Oral

Kokalova, Tz.; Wheldon, C.; von Oertzen, W.; Gebauer, B.; Thummerer, S.; Schulz, Ch.; Bohlen, H.G.; de Angelis, G.; Farnea, E.; Napoli, D.R.; Lenzi, S.M.; Beck, C.; Rousseau, M.; Papka, P.

Spectroscopy of light exotic nuclei using BRS + EUROBALL

69. DPG Tagung

Berlin 04. Mar - 09. Mar 2005

Oral

Sanchez, A.; Zafra, I.; Beck, C.; Haas, F.; Papka, P.; Rauch, V.; Rousseau, M.; Azaiez, F.; Bednarczyk, P.; Courtin, S.; Curien, D.; Dorvaux, O.; Nourreddine, A.; Robin, J.; Salsac, D.; von Oertzen, W.; Gebauer, B.; Kokalova, Tz.; Thummerer, S.; Wheldon, C.; de Angelis, G.; Gadea, A.; Lenzi, S.; Napoli, D.R.; Szilner, S.; Catford, W.; Jenkins, D.

Study of binary reaction channels in the $^{24}\text{Mg}+^{12}\text{C}$ collisions

Bormio 2005

Bormio (Italy) 13. Mar - 20. Mar 2005

Oral

Schwerdtfeger, W.; Bruyneel, B.; Faestermann, T.; Gernhäuser, R.; Habs, D.; Kröll, T.; Krücken, R.; Lauer, M.; Lutter, R.; Maier, H.J.; Reiter, P.; Schaile, O.; Scheit, H.; Thierolf, P.; Von Oertzen, W.; Warr, N.; Wolter, H.;

Towards 2n Transfer Reactions around the Island of Inversion

69.DPG Tagung

Berlin 04. Mar - 09. Mar 2005

Oral

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

Ternary Fission from Hyper-deformed States in A=56-60

69. DPG Tagung

Berlin 04. Mar - 09. Mar 2005

Oral

Wheldon, C.; Kokalova, Tz.; Thummerer, S.; Gebauer, B.; von Oertzen, W.; Schulz, C.; Bohlen, H.G.; de Angelis, G.; Farnea, E.; Napoli, D.R.; Lenzi, S.M.; Beck, C.; Rousseau, M.; Papka, P.

EUROBALL+BRS as a tool for uniquely identifying weakly populated structures in light nuclei.

69. DPG Tagung

Berlin 04. Mar - 09. Mar 2005

Oral

Zhrebchevsky, V.I.; Kamanin, D.V.; von Oertzen, W.; Gebauer, B.; Thummerer, S.; Wilpert, Th.; Bohlen, H.G.

Ternary Fission from Hyper-deformed States in ^{60}Zn

Frontiers in the physics of the Nucleus

St.Petersburg 28. Jun - 01. Jul 2005

Poster

Zherebchevsky, V.I.; Von Oertzen, W.; Gebauer, B.; Thummerer, S.; Schulz, Ch.; Bohlen, H.G.; Wilpert, T.; Kamanin, D.;

Ternary fission of the compound nucleus ^{60}Zn formed in the $^{24}\text{Mg}+^{36}\text{Ar}$ Reaction

69.DPG Tagung

Berlin 04. Mar - 09. Mar 2005

SF7.Q3D

Poster

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

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

SHIM 2005, The Sixth International Symposium on Swift Heavy Ions in Matter

Aschaffenburg 28. May - 31. May 2005

Oral

Bohlen, H.G.

Experimental Results on the Structure of Neutron-Rich Beryllium and Carbon Isotopes

Workshop on Alpha Condensation

Rostock 18. Aug - 20. Aug 2005

Oral

Bohlen, H.G.; Kalpakchieva, R.; Massey, T.N.; von Oertzen, W.; Ogloblin, A.A.; de Angelis, G.; Schulz, Ch.; Kokalova, Tz.; Wheldon, C.

Structure Studies of Excited States of ^{17}C and ^{16}C

NUSTAR'05 Conference,

Guildford, UK 05. Jan - 08. Jan 2005

Oral

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

Experimental results on $(\text{sd})^3$ x core structures of ^{16}C and ^{17}C

Structure and Reactions of Exotic Nuclei Workshop

Pisa (Italy) 24. Feb - 26. Feb 2005

Oral

Bohlen, H.G.; Kalpakchieva, R.; von Oertzen, W.; Massey, T.N.; Ogloblin, A.A.; de Angelis, G.; Schulz, Ch.; Kokalova, Tz.; Wheldon, C.

Structure of excited states of neutron-rich carbon isotopes

Frontiers in the Physics of the Nucleus

St. Petersburg, Russia 28. Jun - 01. Jul 2005

Oral

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

Structure studies of the neutron-rich isotopes ^{17}C , ^{16}C and ^{15}C

DPG Frühjahrstagung

Berlin 04. Mar - 09. Mar 2005

Poster

McEwan, P.; Freer, M.; Ashwood, N.; Curtis, N.; Price, D.; Ziman, V.; Bohlen, H.G.; Kokalova, Tz.; Schulz, Ch.; von Oertzen, W.; Wheldon, C.; Massey, T.N.; Kalpakchieva, R.; Catford, W.

Investigation into the structure of ^{14}C using recoil co-incidence techniques

Nustar '05 Conference

Guildford, UK 05. Jan - 08. Jan 2005

SE - Solar Energy Research

SE1 - Silicon photovoltaics

SE1.Cells

Poster

Angermann, H.

Wet-chemical passivation of polycrystalline and textured Si-substrates

Tag der Chemie 2005

Berlin 08. Jun - 08. Jun 2005

Oral

Angermann, H.

Wet-chemical passivation of stepped and atomically flat silicon substrates

2nd Workshop on Carbon-based Quantum Computing

Berlin 12. Dec - 12. Dec 2005

Oral

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

Interface state densities on atomically flat and structured silicon substrates

IV. International Workshop on Semiconductor Surface Passivation (SSP'2005)

Ustron, Poland 10. Sep - 14. Sep 2005

Poster

Angermann, H. ; Müller, A.-D. ; Müller, F.

Density of rechargeable states on very flat Si(100) surfaces studied by surface photovoltage and AFM measurements

13. Tagung Festkörperanalytik

Chemnitz 26. Jun - 29. Jun 2005

Poster

Boehme, C.

Electrical detection of spin-coherence with pulsed electrically detected resonance (pulse EDMR)

Gordon Research Conference on Magnetic Resonance

New London, USA 05. Jun - 10. Jun 2005

Oral

Boehme, C.

Comment on the sensitivity of electrical spin detection

Gordon Research Conference on Magnetic Resonance

New London, USA 05. Jun - 10. Jun 2005

Oral

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

Hopping transport in n-a-Si:H emitters of silicon heterostructure solar cells

21st International Conference on Amorphous and Nanocrystalline Semiconductors „ICANS-21“

Lisbon, Portugal 04. Sep - 09. Aug 2005

Poster

Boehme, C.; Friedrich, F.; Lips, K.

A pulsed EDMR study of charge trapping at Pb centers

MRS Spring Meeting

San Francisco, USA, 28. Mar - 01. Apr 2005

Invited Talk

Böhme, C.; Lips, K.

The ultrasensitive detection of spin-Rabi oscillation by measurement of recombination currents

23rd International Conference on Defects in Semiconductors "ICDS-23"

Awaji Island, Hyogo, Japan 24. Jul - 29. Jul 2005

Oral

Boehme, C.; Lips, K.

An all electrical detection of spin rabi oscillation in crystalline silicon

DPG- Frühjahrstagung

Berlin 04. Mar - 09. Mar 2005

Invited Talk

Fuhs, W.

Hydrogenated amorphous and microcrystalline silicon

International Workshop on Amorphous and Nanostructured Chalcogenides

Sinaia, Romania 20. Jun - 24. Jun 2005

Invited Talk

Fuhs, W.

Crystalline silicon thin-film solar cells

International Workshop "Advanced Low-Cost Technologies for Thin-Film Solar Cells

Sofia, Bulgaria 29. Sep - 02. Oct 2005

Invited Talk

Gall, S.

Solar cells based on a pn-junction

1st International Summer Academy on Photovoltaics

Berlin 28. Aug - 04. Sep 2005

Invited Talk

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

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

E-MRS Conference 31.5.-3.6.2005

Strasbourg, France 31. May - 03. Jun 2005

Oral

Gall, S.; Schneider, J.; Klein, J.; Muske, M.; Rau, B.; Conrad, E.; Sieber, I.; Fuhs, W.

Development of poly-Si thin-film solar cells on glass using AIC seed layers

11th Euroregional Workshop on „Thin Silicon Devices

Delft, Netherland 02. Feb - 04. Feb 2005

Oral

Gall, S.; Schneider, J.; Klein, J.; Muske, M.; Rau, B.; Conrad, E.; Sieber, I.; Fuhs, W.; Van Gestel, D.; Gordon, I.; Van Nieuwenhuysen, K.; Carnel, L.; Beaucarne, G.; Poortmans, J.; Stöger-Pollach, M.; Schattschneider, P.

Large-grained polycrystalline silicon thin-film solar cells using AIC SEED layers

31st IEEE Photovoltaics Specialists Conf. and Exh.

Lake Buena Vista, Florida, USA 03. Jan - 07. Jan 2005

Poster

Gall, S.; Schneider, J.; Klein, J.; Muske, M.; Rau, B.; Conrad, E.; Sieber, I.; Fuhs, W.; Van Gestel, D.; Gordon, I.; Van Nieuwenhuysen, K.; Carnel, L.; Irigoyen, J.; Beaucarne, Poortmans, J.; Stöger-Pollach, M.; Schattschneider, P.; Wang, Y.; Van der Biest, O.

Development of polycrystalline silicon thin-film solar cells within the European project METEOR

20th European Photovoltaic Solar Energy Conference and Exhibition

Barcelona, Spain 06. Jun - 10. Jun 2005

Poster

Klein, J.; Schneider, J.; Muske, M.; Heimbürger, R.; Gall, S.; Fuhs, W.

Aluminium-induced crystallisation of amorphous silicon: Parameter variation for optimisation of the process

31st IEEE Photovoltaics Specialists Conf. and Exh.

Lake Buena Vista, Florida, USA 03. Jan - 07. Jan 2005

Oral

Klenk, R.; Linke, M.; Angermann, H.; Kelch, C.; Kirsch, M.; Klaer, J.; Köble, Ch.

Die Stabilität von ZnO bei beschleunigter Alterung

FVS-Workshops „TCO für Dünnschichtsolarzellen III“

Freyburg/Unstrut 10. Apr - 12. Apr 2005

Invited Talk

Lips, K.

Structural and Chemical Characterization

1st International Summer Academy on Photovoltaics

Berlin 28. Aug - 04. Sep 2005

Oral

Lips, K.; Boehme, C.

New insights into the recombination mechanism of amorphous silicon

MRS Spring Meeting

San Francisco, USA 28. Mar - 01. Apr 2005

Invited Talk

Lips, K.; Boehme, C.

The role of the electron spin in charge carrier trapping

17th Workshop on Quantum Solar Energy Conversion (Quantsol 2005)

Rauris, Austria 14. Mar - 18. Mar 2005

Oral

Lips, K.; Boehme, C.

New insights into the recombination mechanisms of amorphous silicon

21st International Conference on Amorphous and Nanocrystalline Semiconductors „ICANS-21“

Lisbon, Portugal 04. Sep - 09. Sep 2005

Invited Talk

Nickel, N. H.

Wasserstoffbindung in ZnO

FVS-Workshops „TCO für Dünnschichtsolarzellen III“

Freyburg/Unstrut 11. Apr - 12. Apr 2005

Oral

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

Complex formation in undoped and nitrogen doped Zinc oxide grown by MOCVD

MRS Fall Meeting

Boston, USA 28. Nov - 02. Dec 2005

Oral

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

Hydrogen bonding in amorphous and polycrystalline SiGe alloys

MRS Spring Meeting

San Francisco, USA 28. Mar - 01. Apr 2005

Oral

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

Influence of compositional and structural changes on hydrogen bonding in silicon and silicon-germanium alloys

21st International Conference on Amorphous and Nanocrystalline Semiconductors ICANS-21

Lisbon, Portugal 04. Sep - 09. Sep 2005

Poster

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

Line defects in epitaxial silicon films grown at 560 °C

23rd International Conference on Defects in Semiconductors „ICDS-23“

Awaji Island, Japan 24. Jul - 29. Jul 2005

Oral

Petter, K.; Rau, B.; Gall, S.; Lips, K.; Fuhs, W.

ESR investigation of a donor-like state in epitaxial Si layers

DPG Frühjahrstagung

Berlin 04. Mar - 09. Mar 2005

Poster

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

Polycrystalline Si thin-film solar cells on glass by epitaxial thickening of seed layers using ECRCVD

20th European Photovoltaic Solar Energy Conference

Barcelona, Spanien 06. Jun - 10. Jun 2005

Oral

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

Poly-crystalline Si thin-film solar cells on glass: Low-temperature epitaxial thickening of seed layers

DPG- Frühjahrstagung

Berlin 04. Mar - 09. Mar 2005

Poster

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

Low-temperature epitaxy for thin-film silicon solar cells by ECRCVD - structural and electronic properties

31st IEEE Photovoltaic Specialists Conference

Orlando Florida, USA 03. Jan - 07. Jan 2005

Oral

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

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

16th American Conference on Crystal Growth and Epitaxy (ACCGE-16)

Big Sky, Montana, USA 10. Jul - 15. Jul 2005

Oral

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

Polycrystalline Si thin-film solar cells with absorber layers grown at temperatures below 600°C by ECRCVD

15th International Photovoltaic Science and Engineering Conference (PVSEC-15)

Shanghai, China 10. Oct - 15. Oct 2005

Poster

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

Laser-crystallization of compensated hydrogenated amorphous silicon thin films

21st International Conference on Amorphous and Nanocrystalline Semiconductors „ICANS-21“

Lisbon, Portugal 04. Sep - 09. Sep 2005

Oral

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

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

16th American Conference on Crystal

Big Sky Resort, Montana, USA 10. Jul - 15. Jul 2005

Poster

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

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

21st International Conference on Amorphous and Nanocrystalline Semiconductors „ICANS-21“

Lisbon, Portugal 04. Sep - 09. Sep 2005

Oral

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

Physics of the formation of polycrystalline silicon thin films by aluminum-induced layer exchange

DPG-Frühjahrstagung

Berlin 04. Mar - 09. Mar 2005

Oral

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

Suppression of nucleation during the aluminum-induced layer exchange process

MRS Spring Meeting

San Francisco, USA 28. Mar - 01. Apr 2005

Oral

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

Aluminium-induced crystallisation: nucleation and growth process

21st International Conference on Amorphous and Nanocrystalline Semiconductors „ICANS-21“

Lisbon, Portugal 04. Sep - 09. Sep 2005

Oral

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

Crystal orientation of silicon thin films made by aluminum-induced layer exchange

16th American Conference on Crystal Growth and Epitaxy "ACCGE-16"

Big Sky Resort, Montana, USA 10. Jul - 15. Jul 2005

Poster

Stöger-Pollach, M.; Walter, T.; Eyidi, D.; Schneider, J.; Gall, S.

The role of an alumina membrane and its phase transformations during the layer exchange process

Microscopy Conference/6. Dreiländertagung 2005,

Davos, Switzerland 28. Aug - 02. Sep 2005

Poster

Walter, T.; Stöger-Pollach, M.; Eyidi, D.; Schneider, J.

The role of an alumina membrane and its phase transformations during the layer exchange process

55. Jahrestagung der Österreichischen Physikalischen Gesellschaft

Vienna, Austria 27. Sep - 29. Sep 2005

Poster

Wang, Y.; Van Der Biest, O.; Gordon, I.; Van Gestel, D.; Beaucarne, G.; Poortmans, J.; Stöger-Pollach, M.; Schattschneider, P.; Gall, S.

Antimony induced crystallisation of amorphous silicon

20th European Photovoltaic Solar Energy Conference and Exhibition

Barcelona, Spain 06. Jun - 10. Jun 2005

Oral

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

Formation of a miscibility gap in laser-crystallized poly-SiGe thin films

MRS Spring Meeting

San Francisco, USA 28. Mar - 01. Apr 2005

Oral

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

Structural properties of laser-crystallized polycrystalline SiGe thin films

21st International Conference on Amorphous and Nanocrystalline Semiconductors „ICANS-21“

Lisbon, Portugal 04. Sep - 09. Sep 2005

SE1.Hetero

Oral

*Fuhs, W.; Laades, A.; v. Maydell, K.; Stangl, R.; Gusev, O. B.; Terukov, E. I.; Kazitsyna-Baranovski, S.; Weiser, G.***Band-edge electroluminescence from amorphous/crystalline silicon heterostructure solar cells**

21st International Conference on Amorphous and Nanocrystalline Semiconductors „ICANS-21“

Lisbon, Portugal 04. Sep - 09. Sep 2005

Oral

*Gudovskikh, A. S.; Kleider, J. P.; Stangl, R.***New approach to capacitance spectroscopy for interface characterization of a-Si:H/c-Si heterojunctions**

21st International Conference on Amorphous and Nanocrystalline Semiconductors „ICANS-21“

Lisbon, Portugal 04. Sep - 09. Sep 2005

Invited Talk

*Korte, L.***Elektronische Zustandsdichte von amorph-kristallinen Silizium-Heterostrukturen**

Workshop SiliconFOREST 2005

Falkau, D 27. Feb - 02. Mar 2005

Oral

*Korte, L.; Laades, A.; Schmidt, M.***Electronic states in a-Si:H/c-Si heterostructures**

21st International Conference on Amorphous and Nanocrystalline Semiconductors ICANS-21

Lissabon, Portugal 04. Sep - 09. Sep 2005

Poster

*Korte, L.; Schmidt, M.***Der amorph-kristalline Silizium-Heteroübergang: UV-Photoelektronenspektroskopie von Bandlücken-Zuständen**

DPG-Frühjahrstagung

Berlin 04. Mar - 09. Mar 2005

Poster

*Laades, A.; Korte, L.; Stangl, R.; v. Maydell, K.; Schubert, C.; Schmidt, M.; Fuhs, W.***Analysis of gap states at the a-Si:H/c-Si heterojunction by means of field dependent surface photovoltage technique and photoelectron yield spectroscopy**

20th European Photovoltaic Solar Energy Conference and Exhibition

Barcelona, Spain 06. Jun - 10. Jun 2005

Poster

*Laades, A.; Korte, L.; v. Maydell, K.; Schubert, C.; Kliefoth, K.; Schmidt, M.; Fuhs, W.***Defect analysis at the a-Si:H/c-Si heterojunction**

DPG Frühjahrestagung

Berlin 04. Mar - 09. Mar 2005

Oral

*Laades, A.; Schubert, C.; Stangl, R.; Maydell, K. v.; Kliefoth, K.; Schmidt, M.; Fuhs, W.***Analysis of the recombination processes at silicon based heterojunctions by surface photovoltage transient technique**

DPG-Frühjahrestagung

Berlin 04. Mar - 09. Mar 2005

Invited Talk

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

High efficient silicon heterojunction solar cells on n-type and p-type substrates processed at low temperatures

15th International Photovoltaic Science and Engineering Conference and Solar Energy Exhibition „PVSEC-15“

Shanghai, China 10. Oct - 15. Oct 2005

Oral

Maydell von, K.; Korte, L.; Laades, A.; Stangl, R.; Conrad, E.; Schmidt, M.

Basic electronic properties and optimization of TCO/a-Si:H(n)/c-Si(p)/a-Si:H(p) heterojunction solar cells

11th Euroregional Workshop on thin silicon devices

Delft, Niederlande 02. Feb - 04. Feb 2005

Poster

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

Silicon heterojunction solar cells based on p-type single crystal silicon processed at low temperatures

21st International Conference on Amorphous and Nanocrystalline Semiconductors „ICANS-21“

Lisbon, Portugal 05. Sep - 09. Sep 2005

Oral

Maydell, K. v.; Nositschka, A.; Windgassen, H.; Rau, U.; Schmidt, J.; Henze, J.; Fahrner, W.; Scherff, M.; Borchert, D.; Bauer, G. H.; Tardon, S.; Stiebig, H.; Schmidt, M.

Basic Electronic Properties and Technology of TCO/a-Si:H(n)/c-Si(p) Heterostructure Solar Cells: A German Network Project

20th European Photovoltaic Solar Energy Conference and Exhibition

Barcelona, Spain 06. Jun - 10. Jun 2005

Poster

Maydell, K. v.; Schmidt, M.; Korte, L.; Laades, A.; Kliefoth, K.; Conrad, E.; Scherff, M.; Fuhs, W.

Basic electronic properties and optimization of TCO/a-Si:H/c-Si hetero solar cells

31st IEEE Photovoltaics Specialists Conf. and Exh.

Lake Buena Vista, Florida, USA 03. Jan - 07. Jan 2005

Poster

Rappich, J.; Hartig, P.; Nickel, N. H.; Sieber, I.; Schulze, S.; Dittrich, Th.

Stable electrochemically passivated Si surfaces by ultra thin benzene-type layers

14th biennial Conference on Insulating Films on Semiconductors (INFOS 2005)

Leuven, Belgium 22. Jun - 24. Jun 2005

Poster

Schaffarzik, D.; Stangl, R.; Laades, A.; Schubert, C.; Schmidt, M.

Recombination analysis at the n-doped a-Si:H(n)/c-Si(p) heterojunction by means of time and intensity dependent surface photovoltage

20th European Photovoltaic Solar Energy Conference and Exhibition

Barcelona, Spain 06. Jun - 10. Jun 2005

Oral

Schmidt, M.; Korte, L.; Laades, A.; Stangl, R.; Maydell, K. v.;

Electronic key quantities of a-Si:H (n,p)/c-Si (p,n) heterostructure solar cells

15th Intern. Photovoltaic Science and Engineering Conference and Solar Energy Exhibition „PVSEC-15“

Shanghai, China 10. Oct - 15. Oct 2005

Poster

Schöpke, A.; Korte, L.; Schmidt, M.

Interface reactions and gap state density distribution in In₂O₃/Si heterostructures

11th European Conference on Applications of Surface and Interface Analysis "ECASIA'05"

Vienna, Austria 25. Sep - 30. Sep 2005

Invited Talk

Stangl, R.

AFORS-Het, Version 2.0, automat for simulation of heterostructures simulation of heterojunction solar cells and measurement

1st International Summer Academy on Photovoltaics,
Berlin 28. Aug - 04. Sep 2005

Invited Talk

Stangl, R.; Korte, L.; Laades, A.; Maydell, K. v.; Schmidt, M.

a-Si/c-Si based heterojunction Solar cells

Sino-European bilateral workshop on photovoltaics
Shanghai, China 10. Oct - 10. Oct 2005

Poster

Stangl, R.; Kriegel, M.; Maydell, K. v.; Korte, L.; Schmidt, M., Fuhs, W.

AFORS-HET, an open-source on demand a numerical PC program for simulation of (thin film) heterojunction solar cells, Version 1.2

31st IEEE Photovoltaics Specialists Conf. and Exh.,
Lake Buena Vista, Florida, USA 03. Jan - 07. Jan 2005

Oral

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

AFORS-HET, Version 2.1, a numerical computer program for simulation of (thin film) heterojunction solar cells

15th International Photovoltaic Science and Engineering Conference and Solar Energy Exhibition „PVSEC-15“

Shanghai, China 10. Oct - 15. Oct 2005

Oral

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

AFORS-HET, a numerical PC program for simulation of (thin film) heterojunction solar cells, Version 2.0 (open-source on demand), to be distributed for public use

20th European Photovoltaic Solar Energy Conference and Exhibition
Barcelona, Spain 06. Jun - 10. Jun 2005

Poster

Stangl, R.; Schaffarzik, D.; Laades, A.; Schubert, C.; Schmidt, M.

Recombination analysis of the a-Si:H/c-Si heterojunction by means of time-, intensity- and field-dependent surface photovoltage

11th Euroregional Workshop on „Thin Silicon Devices
Delft, Netherland 02. Feb - 04. Feb 2005

Oral

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

Intensity dependant surface photovoltage used for interface characterization of c-Si surfaces and a-Si:H/c-Si heterojunctions

15th International Photovoltaic Science and Engineering Conference and Solar Energy Exhibition „PVSEC-15“

Shanghai, China, 10. Oct - 15. Oct 2005

SE1.Others

Poster

Gensch, M.; Roodenko, K.; Hinrichs, K.; Hunger, R.; Güell, A.G.; Merson, A.; Schade, U.; Shapira, Y.; Dittrich, Th.; Rappich, J.; Esser, N.

Molecule-solid interfaces studied with infrared ellipsometry: ultra-thin nitrobenzene films

32nd Annual Conference on the Physics and Chemistry of Semiconductor Interfaces
Bozeman, Montana, USA 23. Jan - 27. Jan 2005

Oral

Kerst, U.; Sadewater, P.; Schlangen, R.; Boit, C.; Leihkauf, R.; Simmnacher, B.; Lundquist, T.; Le Roy, E.
Contacting Diffusion with FIB for Backside Circuit Edit - Procedures and Material Analysis
31st International Symposium for Testing and Failure Analysis (ISTFA-2005)
San Jose, California, USA 06. Nov - 10. Nov 2005

Poster

Würz, R.; Meeder, A.; Fuertes Marrón, D.; Schedel-Niedrig, Th.; Lips, K.
Native oxidation of CuGaSe₂ crystals and thin films studied by Electron Paramagnetic Resonance (EPR)
20th European Photovoltaic Solar Energy Conference
Barcelona, Spain 06. Jun - 10. Jun 2005

SE2.Contacts

Poster

Würz, R.; Meeder, A.; Fuertes-Marrón, D.; Schedel-Niedrig, Th.; Lips, K.
An electron paramagnetic resonance and photoelectron spectroscopy Study on the Native Oxidation of CuGaSe₂
MRS Spring Meeting
San Francisco, USA 28. Mar - 01. Apr 2005

SE5.Interfaces

Poster

Hunger, R.; Mayer, Th.; Thißen, A.; Jaegermann, W.; Pettenkofer, Ch.; Lewerenz, H. J.; Jungblut, H.; Castle, J.; Dekker, F.; Salvi, A. M.; Marcus, P.; Broekmann, P.; Wandelt, K.; Hinrichs, K.; Rappich, J.; Lewis, N. S.; Niwa, D.
Solid-Liquid Interface Analysis using the SoLiAS Experimental Station
BESSY Users Meeting 2005
Berlin, Germany 01. Dec - 02. Dec 2005

SE2 - Heterogeneous material systems

ISL.User

Oral

Bohne, W.; Röhrich, J.; Strub, E.
Analysis of solar cell materials by ion scattering methods
ECASIA'05
Wien 25. Sep - 30. Sep 2005

SE1.Cells

Oral

Klenk, R.; Linke, M.; Angermann, H.; Kelch, C.; Kirsch, M.; Klaer, J.; Köble, Ch.
Die Stabilität von ZnO bei beschleunigter Alterung
FVS-Workshops „TCO für Dünnschichtsolarzellen III“
Freiburg/Untrut 10. Apr - 12. Apr 2005

SE1.Others

Poster

*Würz, R.; Meeder, A.; Fuertes Marrón, D.; Schedel-Niedrig, Th.; Lips, K.***Native oxidation of CuGaSe₂ crystals and thin films studied by Electron Paramagnetic Resonance (EPR)**

20th European Photovoltaic Solar Energy Conference

Barcelona, Spain 06. Jun - 10. Jun 2005

SE2.Analytics

Oral

*A. Grimm, R. Klenk, I. Laueremann, M.Bär, M.Ch. Lux-Steiner, T. P. Niesen, S. Visbeck***Alternative Fensterstruktur für Chalkopyrit-Dünnschichtsolarzellen**

FVS-Workshop TCO III

Freyburg 11. Apr - 12. Apr 2005

Oral

*Bär, M.; Rusu, M.; Lehmann, S.; Sokoll, S.; Grimm, A.; Kötschau, I.M.; Laueremann, I.; Pistor, P.; Weinhardt, L., Fuchs, O.; Heske, C.; Jung, Ch.; Gudat, W.; Schedel-Niedrig, Th.; Lux-Steiner, M.C.; Fischer, Ch.-H.***Cdx²⁺/NH₃ - TREATMENT OF HIGH-GAP CuGaSe₂ THIN FILM SOLAR CELL ABSORBERS**

31st IEEE Photovoltaic Specialists Conference

Lake Buena Vista, USA 03. Jan - 07. Jan 2005

Poster

*Glatzel, Th.; Rusu, M.; Sadewasser, S.; Lux-Steiner, M. Ch.***A KELVIN PROBE FORCE MICROSCOPY STUDY OF THE PVD-CdS/Cu(In,Ga)Se₂ INTERFACE FORMATION IN HIGHLY EFFICIENT THIN FILM SOLAR CELLS**

20th European Photovoltaic Solar Energy Conference

Barcelona, Spain 06. Jun - 10. Jun 2005

Oral

*Hoppe, H.; Glatzel, Th.; Niggemann, M.; Schwinger, W.; Schaeffler, F.; Hinsch, A.; Lux-Steiner, M. Ch.; Sariciiftci, N.S.***Efficiency limiting morphological factors of MDMO-PPV: PCBM plastic solar cells**

E-MRS 2005

Strasbourg, France 31. May - 03. Jun 2005

Invited Talk

*I. Laueremann, I. Kötschau, M. Bär, P. Pistor, A. Grimm, S. Sokoll, M. Ch. Lux-Steiner, Ch.-H. Fischer***Synchrotron-based spectroscopy for the characterisation of surfaces and interfaces in chalcopyrite solar cells**

Materials Research Society Meeting

San Francisco 28. Mar - 01. Apr 2005

Oral

*Lehmann, S.; Bär, M.; Fuertes-Marrón, D.; Wiesner, S.; Rusu, M.; Kötschau, I.; Laueremann, I.; Grimm, A.; Sokoll, S.; Fischer, Ch.-H., Schedel-Niedrig, Th.; Lux-Steiner, M. Ch.***CuGaSe₂-CuGa₃Se₅ phase transition in CCSVT-grown thin films**

E-MRS 2005

Strasbourg, France 31. May - 03. Jun 2005

Poster

*Papathanasiou, O., Siebentritt, S., Laueremann, I., Hahn, T., Metzner, H., Lux-Steiner, M., Ch.***Band offsets at the ZnSe/CuInS₂ interface**

Materials Research Society Spring Meeting 2005

San Francisco, USA 28. Mar - 01. Apr 2005

Oral

Rusu, M.; Glatzel, Th.; Kaufmann, C.A.; Neisser, A.; Siebentritt, S.; Sadewasser, S.; Schedel-Niedrig, Th.; Lux-Steiner, M.Ch.

High-Efficient ZnO/PVD-CdS/Cu(In,Ga)Se₂ Thin Film Solar Cells: Formation of the Buffer-Absorber Interface and Transport Properties

The 2005 Spring Meeting of the Materials Research Society
San Francisco, CA, USA 28. Mar - 01. Apr 2005

Poster

Rusu, M.; Glatzel, Th.; Kaufmann, Ch.A.; Neisser, A.; Siebentritt, S.; Sadewasser, S.; Schedel-Niedrig, Th.; Lux-Steiner, M. Ch.

High-Efficient ZnO/PVD-CdS/Cu(In,Ga)Se₂, Thin Film Solar Cells: Formation of the Buffer-Absorber Interface and Transport Properties

MRS 2005

San Francisco, California, U.S.A. 28. Mar - 01. Apr 2005

Poster

Rusu, M.; Glatzel, Th.; Neisser, A.; Kaufmann, C.A.; Sadewasser, S.; Lux-Steiner, M.Ch.

HIGH-EFFICIENT ZnO/PVD-CdS/Cu(In,Ga)Se₂ THIN FILM SOLAR CELLS: PREPARATION AND NEW INSIGHTS IN THE HETEROJUNCTION ELECTRONIC STRUCTURE

20th EUPVSEC

Barcelona, Spain 06. Jun - 10. Jun 2005

Poster

S. Sadewasser, Th. Glatzel, O. Douhéret¹, D. Fuertes Marrón, A. Meeder, K. Maknys¹, S. Anand¹, M.Ch. Lux-Steiner

Resolving electronic features of 2-dimensional semiconductor structures

8th International Conference on noncontact atomic force microscopy
Bad Essen (Germany) 15. Aug - 18. Aug 2005

Invited Talk

Sadewasser, S.

Resonance Enhanced Kelvin Probe Force Microscopy for Semiconductor Characterization on the Nanoscale

43rd IUUVSTA Workshop on Chemical Sensitivity in Scanning Probe Microscopy
Zakopane, Poland 29. Nov - 03. Dec 2005

SE2.Chemistry

Poster

Allsop, N.A.; Kaufmann, C.A.; Neisser, A.; Rusu, M.; Hänsel, A.; Lux-Steiner, M.C.; Fischer, Ch-H.

Solar Cells prepared with Spray-ILGAR Indium Sulfide buffer layers on Cu(In,Ga)Se₂ Absorbers

Materials Research Society Spring Meeting 2005 ,
San Francisco, USA 28. Mar - 01. Apr 2005

Poster

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

New Chemical route for the deposition of ZnS buffer layers: Cd-free CuInS₂-based thin film solar cells with efficiencies above 11%

20th European Photovoltaic Solar Energy Conference
Barcelona, Spain 06. Jun - 10. Jun 2005

SE2.Concepts

Invited Talk

Chen, J.

Vertical nanowire field effect transistor in flexible polymer foils based on ion tracks

ChinaNano 2005
Beijing, China 09. Jul - 12. Jul 2005

Oral

Rusu, M.; Johnev, B.; Streicher, F.; Barreau, N.; Vogel, M.; Glatzel, Th.; Sadewasser, S.; Lux-Steiner, M.Ch.; Fostiropoulos, K.

Work Function Homogeneity of Monolayer Passivated ITO surfaces for Organic Solar Cells

Frontiers in Optics 2005, The 89th OSA Annual Meeting

Tucson, Arizona, USA 16. Oct - 20. Oct 2005

Poster

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

Influence of nanoscale morphology in small molecule solar cells

E-MRS Spring Meeting 2005

Strasbourg 31. May - 03. Jun 2005

SE2.Contacts

Oral

Doka, S.; Rusu, M.; Meeder, A.; Arushanov, E.; Fabre, N.; Fiechter, S.; Schedel-Niedrig, Th.; Lux-Steiner, M.Ch.

Effects of Ge-Implantation on the Photoluminescence of CuGaSe₂ Thin Films

MRS-Spring Meeting 2005

San Francisco, U.S.A. 28. Mar - 01. Apr 2005

Oral

Fuertes Marrón, D.; Meeder, A.; Lehmann, S.; Rusu, M.; Schedel-Niedrig, Th.; Lux-Steiner, M.Ch.

Improved CuGaSe₂ - based solar cell performance by In-S surface treatments

31st IEEE Photovoltaic Specialist Conference

Lake Buena Vista, Florida, USA 03. Jan - 07. Jan 2005

Poster

Papathanasiou, O. , Siebentritt, S. , Lauermann, I., Hahn, T., Metzner, H.

Band offsets at the ZnSe/CuInS₂ interface

Materials Research Society Spring Meeting 2005

San Francisco, USA 28. Mar - 01. Apr 2005

Poster

Würz, R.; Meeder, A.; Fuertes-Marrón, D.; Schedel-Niedrig, Th.; Lips, K.

An electron paramagnetic resonance and photoelectron spectroscopy Study on the Native Oxidation of CuGaSe₂

MRS Spring Meeting

San Francisco, USA 28. Mar - 01. Apr 2005

SE2.Integration

Oral

Klenk, R.; Linke, M.; Angermann, H.; Kelch, C.; Kirsch, M.; Klaer, J.; Köble, Ch.

Die Stabilität von ZnO bei beschleunigter Alterung

FVS-Workshop TCO III

Freyburg 10. Apr - 12. Apr 2005

SE2.Others

Oral

Kaufmann, C. A.; Neisser, A.; Muffler, H.-J.; Klenk, R.; Scheer, R.; Schock, H.-W.

Design of a window layer for flexible Cu(In,Ga)Se₂ thin film solar cell devices

MRS Spring Meeting

San Francisco, USA 28. Mar - 01. Apr 2005

Oral

Kaufmann, C.A.; Klenk, R.; Lux-Steiner, M.C.; Neisser, A.; Körber, P.; Scheer, R.; Schock, H.-W.

Towards a flexible, Cu(In,Ga)Se₂ based, thin film solar cell module

20th European Photovoltaic Solar Energy Conference

Barcelona, Spain 06. Jun - 10. Jun 2005

SE2.Semico

Poster

Bakehe, S.; Karen, A.; Kaigawa, R.; Klenk, R.; Lux-Steiner, M.-Ch.

Band Gap Grading in Multi-Source Evaporated Cu(In,Ga)S₂ Thin Films

20th European Photovoltaic Solar Energy Conference and Exhibition

Barcelona 06. Jun - 10. Jun 2005

Poster

Fuertes Marrón, D.; Lehmann, S.; Doka, S.; Schedel-Niedrig, Th.; Lux-Steiner, M.Ch.

Surface treatments of CuGaSe₂ by means of (In,Ga)-S

20th European Photovoltaic Solar Energy Conference

Barcelona, Spain 06. Jun - 10. Jun 2005

Oral

Fuertes Marrón, D.; Lehmann, S.; Schedel-Niedrig, Th.; Klaer, J.; Klenk, R.; Lux-Steiner, M.Ch.

Band gap and interface engineering of wide gap Cu-containing chalcopyrite absorbers by dry (In,Ga)-S surface treatments

MRS Spring Meeting 2005

San Francisco, California, U.S.A. 28. Mar - 01. Apr 2005

Poster

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

THREE-STAGE EVAPORATION OF Cu(In,Ga)S₂ SOLAR CELL ABSORBER FILMS WITHOUT KCN TREATMENT AND Na CONTROL

Thin Film and Nanostructured Materials for Photovoltaics THINC-PV2 (E-MRS Spring Meeting)

Strasbourg, France 31. May - 03. Jun 2005

Oral

Lehmann, S.; Bär, M.; Fuertes-Marrón, D.; Wiesner, S.; Rusu, M.; Kötschau, I.; Lauer mann, I.; Grimm, A.; Sokoll, S.; Fischer, Ch.-H.; Schedel-Niedrig, Th.; Lux-Steiner, M. Ch.

CuGaSe₂-CuGa₃Se₅ phase transition in CCSVT-grown thin films

E-MRS 2005

Strasbourg, France 31. May - 03. Jun 2005

Invited Talk

Lux-Steiner, M.Ch.

Cd Free Interfaces in CIGS Solar Cells

20th European PV Solar Energy Conference und Exhibition,

Barcelona, Spain 06. Jun - 10. Jun 2005

Oral

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

Potential fluctuations in compensated Cu(In,Ga)Se₂ - a photoluminescence study

69. Jahrestagung der DPG Berlin

Berlin, Germany 04. Mar - 09. Mar 2005

Poster

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

Photo-Hall-Measurements of epitaxial and polycrystalline CuGaSe₂

2005 MRS Spring Meeting

San Francisco 28. Mar - 01. Apr 2005

Poster

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

Potential fluctuations in compensated chalcopyrites

23rd International Conference on Defects in Semiconductors

Awaji Island, Japan 25. Jul - 29. Jul 2005

Oral

Siebentritt, S., Zajogin, A.; Lux-Steiner, M. Ch.

Photoluminescence Excitation Spectroscopy of a highly compensated semiconductor

69. Jahrestagung der DPG

Berlin 04. Mar - 09. Mar 2005

Oral

Theodoropoulou, S.; Papadimitriou, D.; Bakehe, S.; Klenk, R.; Lux-Steiner, M.Ch.

Raman and Photoreflectance Study of Cu(In,Ga)S₂ Films and Solar Cells

2005 IASME / WSEAS International Conference on ENERGY, ENVIRONMENT, ECOSYSTEMS and SUSTAINABLE DEVELOPMENT

Athen, Griechenland 12. Jul - 14. Jul 2005

SE3.Baseline

Oral

Klaer J.; Klenk R.; Boden A.; Neisser A.; Kaufmann C.; Scheer R.; Schock H.W.

Damp heat stability of chalcopyrite mini-modules: evaluation of specific test structures

31st IEEE Photovoltaic Specialists Conference

Orlando 03. Jan - 07. Jan 2005

Poster

Klaer, J.; Klenk, R.; Boden, A.; Scheer, R.; Neisser, A.; Kaufmann, Ch.; Bakehe, S.; Schock, H.-W.

Stability Issues of Chalcopyrite Photovoltaic Devices

20th European Photovoltaic Solar Energy Conference and Exhibition

Barcelona, Spain 06. Jun - 10. Jun 2005

Oral

Scheer R.; Klaer J.; Klenk R.; Lux-Steiner M.C.; Schock H.W.; Meyer N.; Luck I.; Rühle U.

Towards thin film module production using a simplified CIS process

31st IEEE Photovoltaic Specialists Conference

Orlando 03. Jan - 07. Jan 2005

SE3.Others

Oral

Neisser, A.; Kaufmann, C.A.; Klenk, R.; Scheer, R., Schock, H.W.; Kroon, M.A.; Oomen, G.; Herrmann, D.; Kessler, F.; Powalla, M.

FLEXIBLE SOLAR CELLS FOR SPACE: A NEW DEVELOPMENT BASED ON CHALCOPYRITE THIN FILMS

ESPC 2005: Seventh European Space Power Conference

Stresa, Lago Maggiore, Italy 09. May - 13. May 2005

Oral

Neisser, A.; Kaufmann, C.A.; Klenk, R.; Scheer, R.; Kroon, M.A.; Oomen, G.; Schock, H.W.

PROTOTYPE DEVELOPMENT - FLEXIBLE Cu(In,Ga)Se₂ THIN FILM SOLAR CELLS FOR SPACE APPLICATIONS

31st Photovoltaic Specialists Conference and Exhibition

Lake Buena Vista, Florida, USA 03. Jan - 07. Jan 2005

SE3 - Technology**SE2.Chemistry**

Poster

*Allsop, N.A.; Kaufmann, C.A.; Neisser, A.; Rusu, M.; Hänsel, A.; Lux-Steiner, M.C.; Fischer, Ch-H.***Solar Cells prepared with Spray-ILGAR Indium Sulfide buffer layers on Cu(In,Ga)Se₂ Absorbers**

Materials Research Society Spring Meeting 2005 ,

San Francisco, USA 28. Mar - 01. Apr 2005

SE2.Integration

Oral

*Klenk, R.; Linke, M.; Angermann, H.; Kelch, C.; Kirsch, M.; Klaer, J.; Köble, Ch.***Die Stabilität von ZnO bei beschleunigter Alterung**

FVS-Workshop TCO III

Freyburg 10. Apr - 12. Apr 2005

SE2.Others

Oral

*Kaufmann, C. A.; Neisser, A.; Muffler, H.-J.; Klenk, R.; Scheer, R.; Schock, H.-W.***Design of a window layer for flexible Cu(In,Ga)Se₂ thin film solar cell devices**

MRS Spring Meeting

San Francisco, USA 28. Mar - 01. Apr 2005

Oral

*Kaufmann, C.A.; Klenk, R.; Lux-Steiner, M.C.; Neisser, A.; Körber, P.; Scheer, R.; Schock, H.-W.***Towards a flexible, Cu(In,Ga)Se₂ based, thin film solar cell module**

20th European Photovoltaic Solar Energy Conference

Barcelona, Spain 06. Jun - 10. Jun 2005

SE3.Baseline

Oral

*Klaer J.; Klenk R.; Boden A.; Neisser A.; Kaufmann C.; Scheer R.; Schock H.W.***Damp heat stability of chalcopyrite mini-modules: evaluation of specific test structures**

31st IEEE Photovoltaic Specialists Conference

Orlando 03. Jan - 07. Jan 2005

Poster

*Klaer, J.; Klenk, R.; Boden, A.; Scheer, R.; Neisser, A.; Kaufmann, Ch.; Bakehe, S.; Schock, H.-W.***Stability Issues of Chalcopyrite Photovoltaic Devices**

20th European Photovoltaic Solar Energy Conference and Exhibition

Barcelona, Spain 06. Jun - 10. Jun 2005

Oral

*Scheer R.; Klaer J.; Klenk R.; Lux-Steiner M.C.; Schock H.W.; Meyer N.; Luck I.; Rühle U.***Towards thin film module production using a simplified CIS process**

31st IEEE Photovoltaic Specialists Conference

Orlando 03. Jan - 07. Jan 2005

Invited Talk

*Schock, H.-W.***Overview on Deposition Methods for Semiconductor Thin Films**

Summeracademy HMI

Berlin 28. Aug - 04. Sep 2005

SE3.Control

Oral

*Enzenhofer, T.; Unold, T.; Scheer, R.; Schock H. W.***Assessment of CuInS₂ and CuInS₂:(Zn,Mg) Solar Cells by Means of Photoluminescence Spectroscopy**

20 th PVSEC

Barcelona 06. Jun - 10. Jun 2005

SE3.Others

Oral

*Neisser, A.; Kaufmann, C.A.; Klenk, R.; Scheer, R., Schock, H.W.; Kroon, M.A.; Oomen, G.; Herrmann, D.; Kessler, F.; Powalla, M.***FLEXIBLE SOLAR CELLS FOR SPACE: A NEW DEVELOPMENT BASED ON CHALCOPYRITE THIN FILMS**

ESPC 2005: Seventh European Space Power Conference

Stresa, Lago Maggiore, Italy 09. May - 13. May 2005

Oral

*Neisser, A.; Kaufmann, C.A.; Klenk, R.; Scheer, R.; Kroon, M.A.; Oomen, G.; Schock, H.W.***PROTOTYPE DEVELOPMENT - FLEXIBLE Cu(In,Ga)Se₂ THIN FILM SOLAR CELLS FOR SPACE APPLICATIONS**

31st Photovoltaic Specialists Conference and Exhibition

Lake Buena Vista, Florida, USA 03. Jan - 07. Jan 2005

SE4 - Dynamics of interfacial reactions

SE4.Cells

Oral

*Kollonitsch, Z.; Seidel, U.; Neumann, S.; Tegude, F.-J.; Willig, F.; Hannappel, T.***In-situ and UHV studies of MOCVD-grown InP on differently reconstructed GaAsSb(100) surfaces**

12th Biennial Workshop on Organometallic vapor phase epitaxy

Big Sky, MO, USA 10. Jul - 15. Jul 2005

Oral

*Kollonitsch, Z.; Seidel, U.; Neumann, S.; Tegude, F.-J.; Willig, F.; Hannappel, T.***InP growth on c (4 x 4) and (1 x 3) reconstructed GaAsSb (100) surfaces**

Frühjahrstagung der DPG

Berlin 04. Mar - 09. Mar 2005

Oral

*Kollonitsch, Z.; Seidel, U.; Neumann, S.; Tegude, F.-J.; Willig, F.; Hannappel, T.***Zur atomaren und elektronischen Struktur der Oberflächen und Grenzflächen antimonhaltiger Halbleiter**

Universität Duisburg-Essen

Duisburg-Essen 24. Jan - 24. Jan 2005

Invited Talk

*McMahon, W. E.; Hannappel, T.; Batyrev, I.G.; Bork, T.; Olson, J. M.; Zhang, S.B.;***Arsin- und TBAs-behandelte Si(100)-Oberflächen: STM, RAS und theoretische Modellierung**

20. DGKK - Arbeitskreistreffen Epitaxie von III/V-Halbleitern

Duisburg 08. Dec - 09. Dec 2005

Oral

Neges, M.; Schwarzburg, K.; Gundlach, L.; Toebe, L.; Willig, F.

Energy distribution and thermalization of photogenerated hot electrons - Measurements and simulations with respect to 3rd generation photovoltaics

QUANTSOL 2005 Winter workshop

Rauris, Salzburg, Österreich 13. Mar - 19. Mar 2005

Oral

Schimper, H.-J.; Kollonitsch, Z.; Moeller, K.; Seidel, U.; Bloeck, U.; Schwarzburg, K.; Willig, F.; Hannappel, T.

Material studies regarding InP-based high-efficiency solar cells

16th American Conference on Crystal Growth and Epitaxie

Big Sky, MO, USA 10. Jul - 15. Jul 2005

Poster

Schimper, H.-J.; Kollonitsch, Z.; Möller, K.; Seidel, U.; Bloeck, U.; Schwarzburg, K.; Willig, F.; Hannappel, T.

InP- based III -V solar cells

Frühjahrstagung der DPG

Berlin 04. Mar - 09. Mar 2005

Oral

Schimper, H.-J.; Kollonitsch, Z.; Möller, K.; Seidel, U.; Bloeck, U.; Schwarzburg, K.; Willig, F.; Hannappel, T.;

NEW MATERIALS FOR INP-BASED HIGH EFFICIENCY SOLAR CELLS

20th European Photovoltaic Solar Energy Conference

Barcelona, Spain 06. Jun - 10. Jun 2005

Oral

Schimper, H.-J.; Kollonitsch, Z.; Möller, K.; Seidel, U.; Bloeck, U.; Schwarzburg, K.; Willig, F.; Hannappel, T.;

Interface and material studies regarding InP-based high efficiency solar cells

17th Workshop on Quantum Solar Energy Conversion

Rauris, Austria 14. Mar - 20. Mar 2005

Oral

Schimper, H.-J.; Seidel, U.; Bloeck, U.; Regolin, I.; Tegude, F.-J.; Schwarzburg, K.; Willig, F.; Hannappel, T.

III-V Einzelsolarzellen auf der Gitterkonstanten von InP (100)

20. DGKK - Arbeitskreistreffen Epitaxie von III/V- Halbleitern

Duisburg 08. Dec - 09. Dec 2005

Oral

Seidel, U.; Schimper, H.-J.; Bloeck, U.; Schwarzburg, K.; Willig, F.; Hannappel, T.

III-V-Tandemsolarzellen mit niedrigen Bandlücken auf der Gitterkonstanten von InP(100)

20. DGKK Arbeitskreistreffen Epitaxie von III/V-Halbleitern

Duisburg 08. Dec - 09. Dec 2005

SE4.Dynamics

Poster

Gundlach, L.; Ernstorfer, R.; Felber, S.; Eichberger, R.; Willig, F.

Electron Transfer from Molecular Chromophores to Semiconductors Probed with Two-Photon-Photoemission

Femtochemistry VII

Washington, DC, USA 17. Jul - 22. Jul 2005

Oral

Gundlach, L.; Ernstorfer, R.; Felber, S.; Storck, W.; Galloppini, E.; Wei, Q.; Eichberger, R.; Willig, F.

FEMTOSECOND LASER PULSE INDUCED ELECTRON TRANSFER FROM A CHROMOPHORE WITH A LONG RIGID SPACER

205-the Meeting of the Electrochemical Society, San Antonio, USA, 2005

San Antonio, USA 17. Feb - 17. Feb 2005

Poster

Neubauer, A.; Gundlach, L.; Ernstorfer, R.; Felber, S.; Eichberger, R.; Willig, F.

Spacer Controlled Ultrafast Electron Transfer Dynamics from a Perylene Chromophore to Different TiO₂ Surfaces

International Bunsen Discussion Meeting
Meschede, Deutschland 15. Jun - 17. Jun 2005

Poster

Neubauer, A.; Gundlach, L.; Ernstorfer, R.; Felber, S.; Eichberger, R.; Willig, F.

Time-resolved spacer controlled electron transfer from a chromophore to a semiconductor

DPG-Tagung
Berlin 04. Mar - 09. Mar 2005

Oral

Willig, F.

Investigating hot electron dynamics for photovoltaics

15th International Photovoltaic Science and Engineering Conference PVSEC-15
Shanghai, China 10. Oct - 15. Oct 2005

Invited Talk

Willig, F.

Femtosecond transfer dynamics of photo-generated electrons at a surface resonance of reconstructed InP (100)

Workshop of the Special Research Unit SPP1093 of the German Science Foundation
Bonn 26. Jan - 28. Jan 2005

Invited Talk

Willig, F.

Hot electron dynamics at the surface of semiconductors

Workshop of the special research unit SFB616 of the German Science Foundation
Remagen 21. Sep - 23. Sep 2005

Invited Talk

Willig, F.

Ultrafast interfacial electron transfer: Experimental data and theory

229th-ACS meeting
San Diego, USA 13. Mar - 17. Mar 2005

Invited Talk

Willig, F.

Ultrafast photo-induced electron injection from the same molecules into different solids

SPIE Optics and Photonics conference: Physical Chemistry of Interfaces and Nanomaterials IV
San Diego, USA 31. Jul - 04. Aug 2005

Oral

Willig, F.

Heterogeneous electron transfer probed with two-photon photoemission

Discussion Meeting of the German Science Foundation (SPP1093) at the Free University of Berlin, 2PPE-
Quo Vadis?
Berlin 27. May - 28. May 2005

SE4.Others

Poster

Janata, E.

Transient absorption in fused silica by pulsed high-energy electrons

24th Miller Conference on Radiation Chemistry
La Londe les Maures, Frankreich 10. Sep - 15. Sep 2005

SE5 - Solar energy**ISL.User**

Oral

*Bohne, W.; Röhrich, J.; Strub, E.***Analysis of solar cell materials by ion scattering methods**

ECASIA'05

Wien 25. Sep - 30. Sep 2005

SE5.Energetics

Oral

*Bogdanoff, P., Fiechter, S., Dorbandt, I.***Ruthenium-selenium based catalysts for the oxygen reduction in acidic electrolytes**

93. Bunsen-Kolloquium

Schwerin 16. Jun - 17. Jun 2005

Oral

*Ellmer, K.; Vollweiler, G.***Electrical transport parameters of heavily-doped zinc oxide and zinc magnesium oxide films heteroepitaxially grown on oxide single crystals**

4th Int. Symp. on Transparent Oxide Thin Films for Electronics and Optics

Tokyo, Japan 07. Apr - 08. Apr 2005

Poster

*F. Wünsch, F.; Citarella, G.; Abdallah, O.; Kunst, M.***An inverted a-Si:H/c-Si hetero-junction for solar energy conversion**

ICANS 21

Lissabon 04. Sep - 09. Sep 2005

Invited Talk

*Fiechter, S.***Platinum-free catalysts for oxygen reduction in acidic media: Preparation strategies, structural characterization and electrochemical behaviour**

Future Concepts in Energy Related Catalysis

Ascona, Switzerland 13. Mar - 17. Mar 2005

Oral

*G. Schmithals, S. Fiechter, I. Herrmann, U. Koslowski, C. Krämer, P. Bogdanoff, H. Tributsch***Cobalt porphyrin-type catalyst as a bioanorganic analogon for oxygen reduction**

3rd International SFB Conference on Metal Mediated Reactions Modeled after Nature

Jena 25. Sep - 29. Sep 2005

Oral

*Goubard, F.; Aïch, R.; Tran-Van, F.; Michaleviciute, A.; Wünsch, F.; Kunst, M.; Grazulevicius, J.; Ratier, B.; Chevrot, C.***Investigation of Molecular Glasses Based Solid Hybrid Solar Cells**

Baltic Polymer Symposium

Tallinn, Estonia 19. Oct - 21. Oct 2005

Oral

*Herrmann, I., Bogdanoff, P., Dorbandt, I., Fiechter, S., Krämer, C., Koslowski, U., Schmithals, G., Weiss, N., Tributsch, H.***New Materials for the electrochemical oxygen reduction: Applying biochemical principles to electrocatalyst design**

O2Rednet Workshop

Ulm 08. Feb - 09. Feb 2005

Oral

Herrmann, I., Brüser, V., Fiechter, S., Kersten, H. und Bogdanoff, P.

Nano-structured electrocatalysts based on plasma treated CoTMPP for the oxygen reduction

Workshop

Frankfurt/Main 28. Apr - 28. Apr 2005

Oral

Herrmann, I., Brüser, V., Fiechter, S., Kersten, H., Bogdanoff, P.

Nano-structured electrocatalysts based on plasma-treated CoTMPP for the oxygen reduction

93. Bunsen-Kolloquium

Schwerin 16. Jun - 17. Jun 2005

Poster

Kelting, C. ; Weiler, U.; Mayer, T.; Jaegermann, W. ; Makarov, S. ; Woehrle, D. ; Abdallah, O.; Kunst, M. ; Schlettwein, D.

Sensitization of thin-film-silicon by a phthalocyanine as strong organic absorber

MRS Fall Meeting 2005

Boston (USA) 28. Nov - 02. Dec 2005

Poster

Krämer, C. S.; Bogdanoff, P.; Fiechter, S.; Tributsch, H.; Dorbandt, I.; Herrmann, I.; Koslowski, U.; Schmithals, G.

Synthesis and properties of transition metal based catalysts for the electrochemical reduction of oxygen

JCF-Frühjahrssymposium 2005

Berlin 06. Apr - 09. Apr 2005

Oral

Krämer, C.; Dorbandt, I.; Herrmann, I.; Koslowski, U.; Schmithals, G.; Bogdanoff, P.; Fiechter, S.; Tributsch, H.

Synthesis and properties of transition metal based catalysts for the reduction of oxygen in PEM-FC

3rd Gerischer Symposium

Berlin 06. Jul - 08. Jul 2005

Poster

Krämer, C.S.; Koslowski, U.; Herrmann, I.; Schmithals, G.; Bogdanoff, P.; Fiechter, S.; Tributsch, H.

Synthesis and properties of iron- and cobalt-based electrocatalysts for the oxygen reduction

O2Rednet Workshop Ulm

Ulm 08. Feb - 09. Feb 2005

Poster

Krämer, C.S.; Koslowski, U.; Herrmann, I.; Schmithals, G.; Bogdanoff, P.; Fiechter, S.; Tributsch, H.

Synthesis and properties of transition metal based electrocatalysts for the oxygen reduction

International Symposium on Relations between Homogeneous and Heterogeneous Catalysis

Florenz 18. Jul - 22. Jul 2005

Poster

Kunst, M.; Wünsch, F. ; Abdallah, O.; Citarella, G.;

Electrical passivation of silicon wafers

GADEST 2005

Giens (Frankreich) 25. Sep - 30. Sep 2005

Poster

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

Optoelectronic properties of SnO₂/TiO₂ junctions

EMRS 2005

Strasbourg (Frankreich) 31. May - 03. Jun 2005

Oral

Loew, N., Katterle, M., Bogdanoff, P., Herrmann, I., Scheller, F.W.

Detektion von H₂O₂ mittels Biosensoren basierend auf Kohlenstoffmodifikationen

BioSensor 2005

Regensburg 13. Mar - 16. Mar 2005

Oral

Mientus, R.; Ellmer, K.

Elektrische und optische Eigenschaften reaktiv gesputterter In_{0,9}Sn_{0,1}O_x-Schichten

III. FVS-Workshop

Freyburg/Unstrut 11. Apr - 12. Apr 2005

Oral

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

The behaviour of photo induced excess charge carriers studied by photoelectrochemical microwave reflectivity measurements

56th Annual Meeting of the International Electrochemical Society, ISE 2005

Busan, Korea 26. Sep - 30. Sep 2005

Poster

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

In situ monitoring and quality control of photoetching processes at semiconductor surfaces

The 56th Annual Meeting of International Society of Electrochemistry, ISE 2005

Busan, Korea 26. Sep - 30. Sep 2005

Invited Talk

Moehl, T., Tributsch, H.

Cysteine Molecules Attached to MoS₂ Electrodes as Electron Transfer Bridges Mediating Photoelectrochemical Processes

Italo-German Symposium Electrochemistry

Berlin, Botschaftsgebäude Italien 04. Jul - 05. Jul 2005

Poster

Neumann, B.; Tributsch, H.; Smarsly, B.; Brezesinski, T.

Investigation of the Photocatalytic Activity of Nanostructured TiO₂ Electrodes

GDCH Jahrestagung 2005

Düsseldorf 11. Sep - 14. Sep 2005

Oral

P. Bogdanoff, S. Fiechter, I. Dorbandt

Preparation and structural characterisation of ruthenium-selenium based catalysts for the oxygen reduction in acidic electrolytes

The 56th Annual Meeting of International Society of Electrochemistry

Pusan, Süd-Korea 26. Sep - 30. Sep 2005

Poster

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

Compositional Analysis of Laser-Deposited GaN Films by AFM, EDX and XPS

RIVA-5

Guimaraes, Portugal 18. Sep - 21. Sep 2005

Oral

Schnohr, C.S.; Wandler, E.; Gärtner, K.; W. Wesch, W.; Ellmer, K.

Ion-beam induced effects at 15 K in α -Al₂O₃ of different orientations

13th Int Conf. Raf. Effects Insulators

Santa Fe, New Mexico 28. Aug - 02. Sep 2005

Poster

Schwarz, R.; Maçarico, A.F.; Braz, T.; Casteleiro, C.; Sanguino, P.; Niehus, M.; Vieira, M.; Alves, E.; Wünsch, F.; Kunst, M.; Gomes, H.L.;

Radiation Hardness of a-Si:H based particle detectors

JETC'05

Lissabon, 17. Nov - 18. Nov 2005

Oral

Tomm, Y.; Fiechter, S.

Crystal growth of chalcopyrite type phases

16th American Conference on Crystal Growth and Epitaxy

Big Sky Resort, Montana, USA 10. Jul - 15. Jul 2005

Poster

Tomm, Y.; Fiechter, S.

Chemical vapor transport of Molybdenite type phases : significance of transport agent

16th American Conference on Crystal Growth and Epitaxy

Big Sky Resort, Montana, USA 10. Jul - 15. Jul 2005

Invited Talk

Tributsch, H.

Aimed Research and Development as Catalysts towards a Sustainable Energy Future

World Renewable Energy Assembly, WREA

Bonn 26. Nov - 30. Nov 2005

Invited Talk

Tributsch, H.

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

3. Gerischer Symposium: Electrocatalysis: Theory and Experiment

Berlin, Harnack-Haus 06. Jul - 08. Jul 2005

Oral

Unold, T. Enzenhofer, T., Ellmer, K.

Strukturelle, Optische und Elektronische Eigenschaften von reaktiv gesputtertem CuInS₂

DPG Frühjahrstagung, Berlin

Berlin 04. Mar - 09. Mar 2005

Poster

Unold, T. Enzenhofer, T., Voelz, P. Ellmer, K.

Characterization and Optimization of CuInS₂ Solar Cells Deposited by Reactive Magnetron Sputtering

20th E U P V S E C

Barcelona, Spanien 06. Jun - 10. Jun 2005

Oral

Vollweiler, G.; Ellmer, K.

Strukturelle und elektrische Untersuchungen von modulationsdotierten ZnO/Zn_{1-x}Mg_xO:Al Schichten

III. FVS-Workshop

Freyburg(Unstrut 11. Apr - 12. Apr 2005

SE5.Interfaces

Oral

Grzanna, J.; Jungblut, H.; Lewerenz, H. J.

Nanoscale Aspects in the Model for Current Oscillations at the Silicon/Electrolyte Contact

207th Meeting of the Electrochemical Society

Quebec, Canada 15. May - 20. May 2005

Oral

Grzanna, J.; Jungblut, H.; Lewerenz, H. J.

Chaos and resonance in the model for current oscillations at the Si/electrolyte contact

18th International Conference on Noise and Fluctuations

Salamanca, Spain 19. Sep - 23. Sep 2005

Poster

Hunger, R.; Mayer, Th.; Thißen, A.; Jaegermann, W.; Pettenkofer, Ch.; Lewerenz, H. J.; Jungblut, H.; Castle, J.; Dekker, F.; Salvi, A. M.; Marcus, P.; Broekmann, P.; Wandelt, K.; Hinrichs, K.; Rappich, J.; Lewis, N. S.; Niwa, D.

Solid-Liquid Interface Analysis using the SoLiAS Experimental Station

BESSY Users Meeting 2005

Berlin, Germany 01. Dec - 02. Dec 2005

Oral

Lewerenz, H. J.; Skorupska, K.

Biomolecule-semiconductor interfaces

CRG Workshop on investigation of biomolecules, Berlin

Berlin, Germany 30. Nov - 30. Nov 2005

Invited Talk

Lewerenz, H. J.; Skorupska, K.

Self-organized nanostructures on silicon

Colloquium zum Exzellenzcluster-Antrag der BTU Cottbus "Materials for CMOS compatible nano-scaled hetero-systems"

Cottbus, Germany 29. Sep - 29. Sep 2005

Oral

Lewerenz, H. J.; Smith, J.; Campbell, S. A.

Fundamentals of Semiconductor/Biomolecule Junctions

207th meeting of the Electrochemical Society

Quebec, Canada 15. May - 20. May 2005

Invited Talk

Lewerenz, H. J.; Smith, J.; Campbell, S. A.

Fundamental aspects of semiconductor-biomolecule junctions

CRG-Meeting La Clusaz

La Clusaz 11. Sep - 17. Sep 2005

Oral

Lublow, M.; Lewerenz, H. J.

Optical analysis of bio-molecules bound to solid surfaces

CRG Workshop on Investigation of Biomolecules, Berlin

Berlin, Germany 30. Nov - 30. Nov 2005

Oral

Lublow, M.; Lewerenz, H. J.

High Resolution Optical Analysis of Ultrathin Roughness and Oxide Layers on Silicon

Electrochem 2005 in Newcastle

University of Northumbria, Newcastle 04. Sep - 07. Sep 2005

Invited Talk

Lublow, M.; Lewerenz, H.J.

Optical and photoelectron spectroscopy analysis of ultrathin oxides on silicon

CRG-Meeting, La Clusaz

La Clusaz, Frankreich 11. Sep - 16. Sep 2005

Oral

Miethe, I.; Krischer, K.; Jungblut, H.; Lewerenz, H. J.

Spatiotemporal pattern formation during the electrooxidation of silicon in HF-containing electrolytes

GDCh-Jahrestagung 2005: Chemie schafft neue Strukturen

Düsseldorf 11. Sep - 14. Sep 2005

Oral

Skorupska, K.; Duscher, G.; Wilhelm, T.; Kanis, M.; Lublow, M.; Jungblut, H.; Lewerenz, H. J.

Molecular and Nanotopographic Aspects of Silicon Dissolution in Alkaline Electrolytes

207th Meeting of the Electrochemical Society

Quebec, Canada 15. May - 20. May 2005

Invited Talk

Skorupska, K.; Jungblut, H.; Lewerenz, H. J.

Towards self-organized nanostructures on silicon: SRPES investigations on the dissolution mechanisms

CRG-Meeting La Clusaz

La Clusaz 11. Sep - 17. Sep 2005

Poster

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

Nanotopography in Selforganized Structure Formation on Silicon: Step Bunching

BESSY Users Meeting 2005

01. Dec - 02. Dec 2005

Poster

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

Dynamic Competition of Reduction and Dissolution Process During Step Bunching of Silicon

EMRS 2005 Spring Meeting

Strasbourg, France 31. May - 03. Jun 2005

Invited Talk

Smith, J. R.; Campbell, S.A.; Jungblut, H.; Lewerenz, H. J.

High Resolution Imaging of HIV-1 Reverse Transcriptase by Scanning Tunnelling Microscopy

56th Annual Meeting of the International Society of Electrochemistry

Busan, Korea 26. Sep - 30. Sep 2005

SE6 - Electronic structure of semiconductor interfaces

SE5.Interfaces

Poster

Hunger, R.; Mayer, Th.; Thißen, A.; Jaegermann, W.; Pettenkofer, Ch.; Lewerenz, H. J.; Jungblut, H.; Castle, J.; Dekker, F.; Salvi, A. M.; Marcus, P.; Broekmann, P.; Wandelt, K.; Hinrichs, K.; Rappich, J.; Lewis, N. S.; Niwa, D.

Solid-Liquid Interface Analysis using the SoLiAS Experimental Station

BESSY Users Meeting 2005

Berlin, Germany 01. Dec - 02. Dec 2005

SE6.BESSY

Oral

Andres, S.

Morphology and electronic structure of MOMBE grown ZnO layers

CRG Klausurtagung 2005

La Clusaz 09. Sep - 16. Sep 2005

Poster

Andres, S.; Bremsteller, W.; Pettenkofer, C.

Electronic structure of ZnO(11-20) single crystals and thin films

Bessy user meeting 2005

Berlin 01. Dec - 02. Dec 2005

Oral

Pettenkofer, C.

Morphology and electronic structure of MOMBE grown ZnO surfaces

FVS-Workshop TCO III Freyburg/Unstrut

Freyburg/Unstrut, D 11. Apr - 12. Apr 2005

Oral

Pettenkofer, C.

Photoemission from liquid aqueous solutions

Konferenzbeitrag, CRG-Klausurtagung, 10.09.2005, La Clusaz

La Clusaz, F 11. Sep - 16. Sep 2005

Oral

Plake, T.

From XPEEM to spatially resolved XPS: Recent examples and prospects

CRG-Klausurtagung

La Clusaz / Frankreich 10. Sep - 16. Sep 2005

Poster

Plake, T.; Bremsteller, W.; Lehmann, C.; Schneider, J.; Muske, M.; Gall, S.; Pettenkofer, C.

XPEEM investigations of the Al-induced crystallization of amorphous silicon

BESSY annual user meeting 2005

Berlin 01. Dec - 02. Dec 2005

Oral

Wider, J.; Plake, T.; Pettenkofer, C.

Preparation and Characterization of ZnO single crystals

CRG Klausurtagung

La Clusaz, Frankreich 10. Sep - 17. Sep 2005

SE6.Interfaces

Oral

Andres, S.; Plake, T.; Pettenkofer, C.

Morphology and electronic structure of MOMBE grown ZnO surfaces

69. Jahrestagung der Deutschen Physikalischen Gesellschaft

Berlin 04. Mar - 09. Mar 2005

Invited Talk

Pettenkofer, C.

ZnO: Morphologie und elektronische Struktur dünner Schichten

SFB Colloquium Ruhr-Universität Bochum

Bochum 24. May - 24. May 2005

Invited Talk

Pettenkofer, C.

ZnO: Morphologie und elektronische Struktur dünner Schichten

Forschergruppenseminar der Universität Erlangen

Erlangen 02. Jun - 02. Jun 2005

Invited Talk

Pettenkofer, C.; Andres, S.

Dünne ZnO-Schichten, vom polykristallinen Film bis zur Epitaxie: Elektronische Eigenschaften und Morphologie der Grenzfläche

Eingeladener Vortrag im Rahmen des Sonderforschungsbereichs 558

Bochum 24. May - 24. May 2005

I - Central Scientific-Technical Infrastructure

DE - Experimental Systems

DE

Invited Talk

Dube, S.

Steuerung einer ^3He Polarisationsanlage

2. Technologietag

Chemnitz 09. Jun - 09. Jun 2005

Oral

Dube, S.

RFID-Technologie zur Positionsbestimmung

Frühjahrstagung der Studiengruppe für Elektronische Instrumentierung

Darmstadt 04. Apr - 06. Apr 2005

Oral

Dube, S.

DAQ für Neutronenstreuexperimente mit Time Stamp Daten

Herbsttagung der Studiengruppe für Elektronische Instrumentierung

Berlin 26. Sep - 28. Sep 2005

Oral

Dürr, C.; Bönisch, S.

Optimierung des Rauschverhaltens von Breitbandkleinsignalverstärkern im Frequenzbereich von 100 kHz bis 350 MHz

Herbsttagung der Studiengruppe für Elektronische Instrumentierung

Berlin 26. Sep - 28. Sep 2005

Oral

Goettmann, W.

Strahlverlustmonitor durch Messung der Cerenkov-Strahlung in Lichtwellenleitern

SEI-Tagung

HMI-Berlin 26. Sep - 28. Sep 2005

Oral

Henschel, H. ; Körfer, M. ; Kuhnhen, J. ; Weinand, U. ; Wulf, F.

Fibre optic sensor solutions for particle accelerators

17th International Conference on Optical Fibre Sensors

Bruges, Belgium 23. May - 27. May 2005

Oral

Namaschk, B.

Computergesteuerte Kondensatorbox

Herbsttagung der Studiengruppe für Elektronische Instrumentierung

Berlin 26. Sep - 28. Sep 2005

Oral

Rossa, L.

Motorserver für Experimentsteuerungen

Herbsttagung der Studiengruppe für Elektronische Instrumentierung

Berlin 26. Sep - 28. Sep 2005

DN - Central Data-Processing and Network**ISL.PPT**

Oral

*Stark, R.; Fromme, M. ; Cordini, D.; Heufelder, J.; Simiantonakis, I.; Weber, A.; Kluge, H.***Computer-aided Patient Positioning in Proton Therapy of Eye Tumours**

International Conference of Medical Physics

Nürnberg 14. Sep - 17. Sep 2005

Oral

*Stark, R.; Fromme, M.; Cordini, D.; Heufelder, J.; Simiantonakis, I.; Weber, A. ; Kluge, H.***Computer-aided Patient Positioning in Proton Therapy of Eye Tumours**

43th International Meeting of Particle Therapy Co-Operative Group

München 10. Dec - 14. Dec 2005

SE5.Interfaces

Oral

*Grzanna, J.; Jungblut, H.; Lewerenz, H. J.***Chaos and resonance in the model for current oscillations at the Si/electrolyte contact**

18th International Conference on Noise and Fluctuations

Salamanca, Spain 19. Sep - 23. Sep 2005

ZF - Konstruktion**SF3.BENSC**

Poster

*Hoell, A.; Zizak, I.; Bieder, H.; Winter, W.; Banhart, J.***The new SAXS instrument at the BESSY 7T Wiggler**

HASYLAB User Meeting

DESY in Hamburg 27. Jan - 28. Jan 2005

SF3.BESSY

Poster

*Hoell, A.; Zizak, I.; Haas, S.; Tatchev, D.; Bieder, H.; Banhart, J.***The new SAXS instrument at BESSY - (7T-WLS-SAXS)**

BESSY user meeting

Berlin, Germany 01. Dec - 02. Dec 2005

Invited Lectures

SF - Structural Research

SF - BENSC

BENSC.User

Schröder-Smeibidl, B.

Mit Neutronen auf den Spuren alter Meister, Neutronenradiographie von Gemälden

Technische Universität Dresden, Physikalisches Institut

Dresden, 20.12.2005

SF1.BENSC

W. Treimer

Advances in neutron tomography

Uni Melbourne Seminar

Melbourne, 14.12.2005

SF2.BENSC

Rupp, A.

A filling station for polarised ^3He

Seminar am Institut für Festkörperforschung,

Forschungszentrum Jülich, 18.10.2005

Rupp, A.; Hutanu, V.; Klenke, J.; Drescher, L.; Mueller, R.; Sander-Thömmes, T.; Kilian, W.

Compressor, filling station and "magnetised" filter cells

NMI3 General Meeting, Rutherford Appleton Laboratory

Chilton, Didcot, UK, 26.09.2005

Rupp, A.; Hutanu, V.; Klenke, J.; Sander-Thömmes, T.; Kilian, W.

Rebuilding of the filling station and "magnetisation" of filter cells

3rd NSF-JRA Meeting

Garching, 10.02.2005

SF - ISL

ISL.PPT

Heufelder, J.

Protonentherapie am Hahn-Meitner-Institut Berlin

Technische Fachhochschule Berlin

Berlin, 12.04.2005

SF - BESSY**SF2.BESSY**

Rossner, H.H.

Bayes-Turchin Analysis of x-ray absorption data above the Fe-Ledges

Seminar at Institute of Physics, Polish Academy of Science, Warsaw
Warsaw, 01.12.2005

SF3.BESSY

Haibel, A.; Zabler, S.; Rueda, A.; Freidank, H.; Grupp, R.; Henkel, F.; Boin, M.; Banhart, J.; Weidemann, G.; Riesemeier, H.; Goebbel, J.

Synchrotron-Tomographie: Prinzip und Anwendungen in der Materialforschung

Sommerschule an der Humboldt-Uni
Berlin, Germany, 02.08.2005

Rack, A.

Characterization of complex materials with synchrotron-tomography and 3d image analysis

Arbeitstreffen ESRF
Grenoble, Frankreich, 23.05.2005

SF1 - Methods and Instruments**SF1.Methods**

Clemens, D.

Information from the Deep - Analysis of Stratified Media using Polarized Neutron Reflectometry

3rd Central European Training School on Neutron Scattering and COST Training School on Neutron Optics
Budapest, Ungarn, 18.04.2005

Krist, T.

Neutron optics from HMI Berlin

ORNL / SNS Seminarvortrag 31. Mai 2005
Oak Ridge, TN, USA, 31.05.2005

Krist, T.

Neutron optics from HMI Berlin

ANL Seminarvortrag 6. Juni 2005
Argonne, USA, 06.06.2005

Krist, T.

Neutron optics from HMI Berlin

Seminarvortrag
ISIS, 29.09.2005

Krist, T.

Neutron optical devices

Seminarvortrag
ANSTO, Sydney, 24.11.2005

SF1.Others

Krist, T.

Neutron optics from HMI Berlin

Seminarvortrag
JAERI, 15.11.2005

Steitz, R.

Boundary Layers of Water at Polymer-Liquid Interfaces

Struktur und Dynamik kondensierter Materie
TUM München, 21.10.2005

Steitz, R.

Neutron reflectivity of ultrathin films and their relevance to bioscience

Physikalisches Kolloquium, Universität des Saarlandes
Saarbrücken, 01.12.2005

SF2 - Magnetism

SF2.Others

Tennant, D.A.

Probing Quantum Criticality with Neutron Scattering

Colloquium to Physics Department
Technische Universität, Dresden, 08.11.2005

SF3 - Materials

SF3.Microstructure

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

Diffusion in mehrkomponentigen Metallschmelzen nahe dem Schmelzpunkt

Berichtskolloquium SPP 1120
Bad Honnef, Germany, 18.05.2005

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

Diffusion in glass-forming Pd-alloys above the liquidus temperature

Seminar Uni Kiel
Kiel, Germany, 16.11.2005

Wollgarten, M.

Amorphe und nanokristalline Aluminium-Legierungen

Seminar in Metallphysik der ETH Zürich
Eidg. Tech. Hochschule, Zürich, Schweiz, 22.11.2005

SF3.Nanostructures

Wiedenmann, A.

Polarized Small Angle Neutron Scattering: A nano-analytical technique for magnetic systems

Van t Hoff Laboratory
University of Utrecht, The Netherlands , 08.11.2005

SF4 - Structure and Dynamics

SF4.Dynamics

Mahnke, H.-E.

From the photo effect to the analysis of nanostructures - X-ray absorption spectroscopy

Seminar, GSI
Darmstadt, 13.12.2005

SF4.Structures

Zeitz, W.-D.

Magnetism at Isolated Atoms at Surfaces and in Voids

Seminar, Nuclear Physics Department, The Australian National University
Canberra/ Australia, 17.01.2005

Zeitz, W.-D.

Nuclei as secret agents: Interface Magnetism Investigated with Radioactive Atoms

UNSW&ADFA Physics Discipline Seminars 2004
Canberra, Australia, 29.10.2005

SF5 - Theory

SF5.Biosystems

Rüdiger, S.

Numerical simulations of calcium dynamics

Seminar
SFB 555, Fritz-Haber Institut Berlin, 13.05.2005

Thul, R., Falcke, M.

The emergence of Ca²⁺ puffs as intracellular escape process

Nichtlineares Seminar
Magdeburg, 24.10.2005

Thul, R., Falcke, M.

Intracellular Calcium: a stochastic medium

Seminar University of Nottingham
Nottingham, 01.08.2005

SF5.Others

Gross, D.H.E.

Microcanonical Statistics, the proper treatment of phase-separation like boiling water

Seminar, IPNO Orsay,
IPNO Orsay, Frankreich, 26.10.2005

Rüdiger, S.

Spatio-temporal forcing of Turing patterns

Seminar: Self-Organization in Complex Nonlinear Systems
TU Berlin, 01.12.2005

SF5.Soft Matter

Höfling, F.; Franosch, T.; Frey, E.

Localisation transition of the 3D Lorentz gas and continuum percolation

Seminar
München, 28.08.2005

Höfling, F.; Franosch, T.; Frey, E.

The Localisation Transition of the 3D Lorentz Model and Continuum Percolation

Seminar über Theorie der kondensierten Materie am Institut für Physik der Johannes-Gutenberg-Universität
Mainz
Mainz, 06.12.2005

Höfling, F.; Franosch, T.; Frey, E.

The Localisation Transition of the 3D Lorentz Model and Continuum Percolation

Seminar "Moderne Probleme der Festkörperphysik"

Berlin, 17.11.2005

SE - Solar Energy Research

SE1 - Silicon photovoltaics

SE1.Cells

Böhme, C.

Electrical detection of spin-coherence - applications for semiconductor spectroscopy and implications for quantum information concepts

Colloquium des Physics Departments der North Carolina State University
Raleigh, North Carolina, USA, 07.02.2005

Böhme, C.

The electrical detection of spin coherence - applications for semiconductor spectroscopy and implications for quantum information concepts

Colloquium des Physics Departments der University of Utah
Salt Lake City, Utah, USA, 10.02.2005

Boehme, C.

Wie moderne Physik die Photovoltaik voran bringt - Eine Skizze vergangener und zukünftiger Forschungsaktivitäten im Bereich der magnetischen Resonanzspektroskopie an PV-Material

Kolloquium, Carl-von-Ossietzky-Universität, Oldenburg
Oldenburg, 24.02.2005

Gall, S.

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

National Renewable Energy Laboratory (NREL)
Golden, USA, 12.01.2005

Lips, K.

Magnetic fingerprints in the photocurrent of silicon solar cells

PV Kolloquium, National Renewable Energy Laboratory
Golden, Colorado, USA, 04.04.2005

Nickel, N. H.

Vibrational spectroscopy of ZnO - Role of hydrogen

Seminarvortrag, Ecole Nationale Supérieur de Chimie
Paris, France, 05.05.2005

Schneider, J.

Aluminium-induzierter Schichtaustauschprozess zur Kristallisation amorphous Siliziumschichten

Kolloquium der Universität Duisburg-Essen
Essen, 23.06.2005

SE1.Hetero

Rappich, J.

Electronic Surface Conditioning of Silicon by Electrochemically deposited Organic Layers

Kolloquiumsvortrag an der HU Berlin, FB Physik der Makromoleküle
Berlin, 28.01.2005

Schmidt, M.

Heterostrukturen - Grundlage für effiziente Solarzellen

ISFH Hameln
Hameln, Germany, 11.01.2005

Schmidt, M.

Heterostrukturen - Grundlage für effiziente Solarzellen am Beispiel der a-Si:H/c-Si Heterostruktur
Kolloquium am Institut für Halbleiterphysik (IHP)
Frankfurt/O., 09.11.2005

SE2 - Heterogeneous material systems

SE2.Analytics

Fischer, C.-H.

Material Characterisation, especially of Interfaces and Surfaces with Soft X-Ray Emission and Photoelectron Spectroscopy

eingeladener Vortrag Universität Kiel, Lehrstuhl für Festkörperionik und Sensorik der Universität Kiel
Kiel, Germany, 28.02.2005

Rusu, M.; Glatzel, Th.; Kaufmann, C.A.; Neisser, A.; Siebentritt, S.; Sadewasser, S.; Schedel-Niedrig, Th.; Lux-Steiner, M.Ch.

High-efficient ZnO/PVD-CdS/Cu(In,Ga)Se₂ thin film solar cells: Formation of the buffer-absorber interface and transport properties

NREL

Golden, Colorado, 06.04.2005

Sadewasser, S.

Kelvin Probe Force Microscopy

FU Berlin, Seminar AG Rieder
Berlin, Germany, 11.05.2005

SE2.Chemistry

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

Indium sulfide buffer layers by Spray-ILGAR

NREL

Golden, U.S.A., 06.04.2005

Ennaoui, A.

CBD-ZnS alternative buffers for Cd-free CIS based solar cells; WP4: Characterisation

NEBULES Meeting

Nantes, 15.12.2005

Ennaoui, A.

CBD-ZnS alternative buffers for Cd-free CIS based solar cells; WP2: Device performance

NEBULES Meeting

Nantes, 15.12.2005

Ennaoui, A.

Cd-free chalcopyrite solar cell: CBD process and devices performance

Project Meeting, Shell Solar GmbH

Munic, Germany, 11.07.2005

SE2.Concepts

Mohr, M.; Fostiropoulos, K.

Organische Materialien in Sputterprozessen

Technische Universität Ilmenau

Ilmenau, 23.06.2005

SE2.Contacts

Fuertes Marrón, D.

Band gap and interface engineering of wide gap Cu-containing chalcopyrite absorbers by dry (In,Ga)-S surface treatments

NREL

Golden, U.S.A., 06.04.2005

SE2.Integration

Kaufmann, C.A.; Neisser, A.; Klenk, R.; Scheer, R.; Schock, H.-W.

Cu(In,Ga)Se₂ thin film solar cells on flexible substrates

NREL

Golden, U.S.A., 06.04.2005

SE2.Semico

Schedel-Niedrig, Th.

Material properties and application issues of chalcopyrite thin films

University Autónoma Madrid, Department of Physics

Madrid, Spain, 11.11.2005

Siebentritt, S.

Grain boundaries in chalcopyrites

National Renewable Energy Lab.

Golden, U.S.A., 08.04.2005

Siebentritt, S.

Grain boundaries in chalcopyrites

University of Illinois

Urbana-Champaign, Urbana, U.S.A., 06.04.2005

Siebentritt, S.

Grain boundaries in chalcopyrites

Berkley National Lab.

Berkley, U.S.A., 04.04.2005

SE3 - Technology

SE3.Baseline

Schock, H.-W.

Dünnschichten aus Chalkopyrithalbleitern für Solarzellen: Wachstum und Eigenschaften

ISFH Hameln, Institutskolloquium

Hameln, 26.04.2005

Schock, H.-W.

Photovoltaic Technologies: - Basic principles and potential of photovoltaic cells; Multinary chalcopyrite compounds, properties and aspects of materials science: - thin film deposition of multinary materials - Heterojunctions, contacts and devices

Technical University of Tallinn

Tallinn, 30.11.2005

Schock, H.-W.

Wachstum von Halbleiterschichten aus Chalkopyritverbindungen - Einfluss auf Korn und Mikrostruktur

Universität Oldenburg

Oldenburg, 27.10.2005

Schock, H.-W.

Technologies for thin film solar cells - a comparison

Workshop on Low Cost Technologies for Film Solar Cells
Sofia - Bulgaria, 30.09.2005

Schock, H.-W.

Multinäre Chalkopyritverbindungen für Dünnschichtsolarzellen - materialwissenschaftliche Herausforderungen

Kolloquiumsvortrag an der Technischen Fakultät der Universität Kiel
Kiel, 19.12.2005

Schock, Hans-Werner

Dünnschichten aus Chalkopyritthalbleitern für Solarzellen: Wachstum und Eigenschaften

Institutskolloquium am ISFH
Hameln, 26.04.2005

SE3.Control

Schock, H.-W.

Überblick Laseranwendungen zur Herstellung von Dünnschichtsolarzellen

Lambda Physik GmbH
Göttingen, 08.11.2005

SE4 - Dynamics of interfacial reactions

SE4.Dynamics

Gundlach, L.

Dynamics of ultrafast electron transfer from adsorbed molecules into solids probed with two-photon-photoemission

Kolloquium Sfb 450 (Analyse und Steuerung ultraschneller photoinduzierter Reaktionen)
Berlin, 01.02.2005

Willig, F.

Hot electron dynamics at the surface of semiconductors with/without attached molecules

eingeladener Vortrag, Institute of Physics, Chinese Academy of Sciences
Chinese Academy of Science, Beijing, China, 18.10.2005

SE5 - Solar energy

SE5.Energetics

Tributsch, H.

Die Herausforderung der solaren Wasserspaltung und Brennstoff-Erzeugung

Institut für Angewandte Chemie, Berlin Adlershof
Berlin Adlershof, 09.06.2005

Tributsch, H.

Kolloid-und Grenzflächenprobleme bei der bio-analogen Energieforschung

MPI für Kolloid und Grenzflächenforschung, Golm,
Golm, 14424 Potsdam, 14.12.2005

Tributsch, H.

Die Herausforderung der solaren Brennstoffherzeugung

Institut für Angewandte Chemie Berlin Adlershof
Berlin /Adlershof, 09.06.2005

SE5.Interfaces

Grzanna, J.; Lewerenz, H. J.

Model for Current Oscillations at the Si/Electrolyte Contact: Synchronization Mechanism and Mathematical Description

Universität Kiel
Kiel, 28.10.2005

J. Grzanna, H. J. Lewerenz

Model for current oscillations at the Si/electrolyte contact based on a stroboscopic map of the phase of the thickness oscillators

North Carolina State University
Raleigh, N. C., USA, 24.05.2005

Lewerenz, H. J.; Jungblut, H.; Slorupska, K.:

Self-organized and induced nanostructures on silicon

Institut für Kristallzüchtung
Berlin, Germany, 13.10.2005

SE6 - Electronic structure of semiconductor interfaces

SE6.BESSY

Wider, J.

Untersuchungen zu Adsorption und strukturellen Änderung von Molekülen auf Oberflächen: Von der Photoelektronenbeugung zur Near Node Photoelectron Holography

Festkörperphysik Seminar HU Berlin
HU Berlin, 10.02.2005

SE6.Interfaces

Pettenkofer, C.

Subthreshold photoemission from Ag(111) islands- some strange observations

Seminar LEPES (CNRS) Grenoble
Grenoble (F), 14.09.2005

I - Central Scientific-Technical Infrastructure

DN - Central Data-Processing and Network

DN

Grzanna, J. und Lewerenz H. J.

Model for Current Oscillations at the Si/Electrolyte Contact Based on a Stroboscopic Phase Map of the Phase of the Thickness Oscillators

Vortrag an der North Carolina State University in Raleigh
Raleigh USA, 23.05.2005

Patents and Patent Applications

Patents

Dep.	HGF-Programme	Inventor	Title	Date of filing	Date of grant
SE2	Energy	Mertesacker, B.; Pietzak, B.; Waiblinger, M.; Weidinger, A.	Elektronenemitter und Verfahren zu dessen Herstellung HK: 1044071	30.12.99	30.12.99
SE2	Energy	Fischer, C.; Lux-Steiner, M.C.; Muffler, H.	Verfahren zur Herstellung dünner, schwer löslicher Beschichtungen RU: 2250932	30.12.99	30.12.99
SE2	Energy	Hofsäss, H.; Krauser, J.; Mertesacker, B.; Weidinger, A.; Zollondz, J.	Quantenpunkt aus elektrisch leitendem Kohlenstoff, Verfahren zur Herstellung und Anwendung DE: 10306076	30.12.99	30.12.99
SE2	Energy	Glatzel, T.; Lux-Steiner, M.C.; Sadewasser, S.	Elektrochemisches Verfahren zur direkten nanostrukturierbaren Materialabscheidung DE: 10318440	30.12.99	30.12.99
SE2	Energy	Bär, M.; Fischer, C.; Hilgendorff, M.; Lauermann, I.; Lux-Steiner, M.C.; Muffler, H.; Rahne, K.	Beschichtungsverfahren zur Deposition und Fixierung von Partikeln auf einer Substratoberfläche DE: 10339824	30.12.99	30.12.99
SE2, SE5	Energy	Dittrich, T.; Dloczik, L.; Lux-Steiner, M.C.; Tomm, Y.	Herstellung von CuAlO ₂ DE: 10323625	30.12.99	30.12.99
SE4	Energy	Ernstorfer, R.	Fenster für eine Ultrahochvakuum-Kammer DE: 10339823	30.12.99	30.12.99
SE5	Energy	Fiechter, S.; Maruthamuthu, P.; Tributsch, H.	Photoelektrochemische Solarzelle mit einem Detergens auf Lipid Basis DE: 10356684	30.12.99	30.12.99
SF1	Structure of matter	Drabkin, G.M.; Lazebnik, J.M.; Mezei, F.	Material zur Beschichtung eines Neutronenleiters DE: 4423781	30.12.99	30.12.99
SF1	Structure of matter	Krist, T.	Neutronenpolarisator CH: 694876	30.12.99	30.12.99
SF4	Structure of matter	Amaral, L.; Behar, M.; Fink, D.	Quantenelektronisches Nanobaelement und Verfahren zu seiner Herstellung DE: 10361934	30.12.99	30.12.99

Patent applications

Dep.	HGF-Programme	Inventor	Title	Date of filing
SE1	Energy	Fenske, F.; Schubert-Bischoff, P.; Sieber, I.	Verfahren zur Herstellung einer einkristallinen Siliziumschicht im Niedertemperaturbereich DE: 102005012935.8-43	15.03.05 Prior application
SE1	Energy	Böhme, C.; Hoheisel, M.; Lips, K.; Pfister, M.	Verfahren und Vorrichtung zur Untersuchung eines biologischen Gewebes DE: 102005017817.0	18.04.05 Prior application
SE1	Energy	Böhme, C.; Hoheisel, M.; Lips, K.; Scholz, B.	Verfahren und Vorrichtung zur nicht invasiven Untersuchung eines Objektes DE: 102005017818.9	18.04.05 Prior application
SE1	Energy	Stangl, R.	Verfahren zur Herstellung einer einseitig kontaktierten Solarzelle und einseitig kontaktierte Solarzelle DE: 102005025125.0 -33	29.05.05 Prior application
SE1	Energy	Conrad, E.; Korte, L.; Schmidt, M.; von Maydell, K.	Amorph/kristalline Silizium-Heterosolarzelle DE: 202005019799.8	13.12.05 Prior application
SE2	Energy	Ennaoui, A.; Kropp, T.; Lux-Steiner, M.C.	Verfahren zum Aufbringen einer Zinksulfid-Pufferschicht auf ein Halbleitersubstrat mittels chemischer Badabscheidung WO: PCT/DE2005/001431	11.08.05
SE4	Energy	Ernstorfer, R.; Hannappel, T.; Kubala, S.; Willig, F.	Vorrichtung und Verfahren zur nasschemischen Präparation von hochreinen Festkörperoberflächen WO: PCT/DE2005/000493	15.03.05
SE5	Energy	Dorbandt, I.; Fiechter, S.; Leem, H.; Rojas-Chapana, J.; Tributsch, H.	Niedertemperatur-Brennstoffzelle mit einer Hybridmembran und Verfahren zur Herstellung WO: PCT/DE2005/001196	01.07.05
SE5	Energy	Bogdanoff, P.; Fiechter, S.; Herrmann, I.	Verfahren zur Herstellung eines platinfreien Chelat-Katalysator-materials und elektrokatalytische Elektrode DE: 102005008338.2-41	20.02.05 Prior application
SE5	Energy	Abdallah, O.; Citarella, G.; Kunst, M.; Wünsch, F.	Heterokontaktsolarzelle mit invertierter Schichtstrukturgeometrie DE: 102005019225.4-33	20.04.05 Prior application
SF1	Structure of matter	Fiechter, S.; Mecklenburg, A.; Nabein, H.; Schneider, R.P.	Verfahren und Anordnung zur Kristallzüchtung aus metallischen Schmelzen oder Schmelzlösungen WO: PCT/DE2005/000694	12.04.05
SF1	Structure of matter	Cussen, L.; Krist, T.; Mezei, F.	Strahlungsoptisches Bauelement WO: PCT/DE2005/001111	15.06.05
SF1	Structure of matter	Krist, T.	Neutronenpolarisator zur Erzeugung von polarisierten Neutronenstrahlen DE: 102005011364.8-54	03.03.05 Prior application

Dep.	HGF-Programme	Inventor	Title	Date of filing
SF3	Structure of matter	Banhart, J.; Garcia-Moreno, F.	Verfahren zur pulvermetallurgischen Herstellung von Metallschaumstoff DE: 102005037305.4-24	02.08.05 Prior application
SF4	Structure of matter	Fink, D.; Hoppe, K.	Sensor mit einem Feld aus Nanoporen und Verfahren zur Herstellung DE: 102005043397.9-52	08.09.05
SF4	Structure of matter	Fink, D.	Flexibler Nanotransistor und Verfahren zur Herstellung WO: PCT/DE2005/001441	11.08.05
SF4	Structure of matter	Fink, D.; Fink, E.	Elektromechanisches Steuerelement mit einem elastisch verformbaren Polymerkörper als Aktor und Anwendung davon DE: 102005001439.9-33	08.01.05 Prior application
SF4	Structure of matter	Fink, D.	Vorrichtung zur Reinigung von Flüssigkeiten DE: 102005015276.7-41	26.03.05 Prior application
SF4	Structure of matter	Brünger, W.H.; Fink, D.	Verfahren zum Herstellen einer Nanostruktur auf einem Substrat DE: 102005011345.1-54 DE: 102005028391.8-54	12.05.05 Prior application
SF4	Structure of matter	Fink, D.; Tabacniks, M.	Mikrokanalplatte mit Ionenspurkanälen, Verfahren zur Herstellung und Anwendung DE: 102005040297.6-54	21.08.05 Prior application
SF4	Structure of matter	Fink, D.; Hoppe, K.; Tabacniks, M.	Magnetoresistiver Sensor mit einem anisotropen Magnetwiderstand DE: 102005040292.5-33	21.08.05 Prior application
SF4	Structure of matter	Fink, D.; Hoppe, K.; Tabacniks, M.	Schallsensor nach dem Tauchspulprinzip und Verfahren zur Herstellung DE: 102005040293.3-35	21.08.05 Prior application
SF4	Structure of matter	Fink, D.	Messverfahren zur in-situ-Kontrolle des chemischen Ätzzvorgangs von latenten Ionenspuren DE: 102005040296.8-52	21.08.05 Prior application
SF4	Structure of matter	Fink, D.	Kapazitiver Nanosensor DE: 102005040294.1-54	21.08.05 Prior application

Academic Education

Lectures, Courses, ...

Dep.	Lecturer	Topic	Course	University	Hrs/week
Summer Term 2005					
SF1	Mezei, F.	Doktorandenseminar	seminar	TU-Berlin	2
SF1	Mezei, F.	27th Tutorial on Neutron Scattering	lecture	TU-Berlin	2
SF1	Steitz, R.	Streumethoden: Grundlage und Anwendung auf Polymer und Kolloidlösungen	lecture	TU-Berlin	2
SF2	Siemensmeyer, K.	Neutronen als Sonde zur Untersuchung kondensierter Materie	lecture	TU-Berlin	4
SF3	Banhart, J.	Technologie der Aluminiumwerkstoffe	lecture	TU-Berlin	2
SF3	Haibel, A.	Ferienkurs zum Thema Tomographie	lecture	HU-Berlin	1
SF4	Mahnke, H.	Festkörperphysik mit Ionenstrahlen	seminar	FU-Berlin	2
SF4	Mahnke, H.	Kern- und Elementarteilchenphysik II (Ionenstrahlphysik)	lecture	FU-Berlin	3
SF4	Schiwietz, G.	Einführung in das Physikalische Grundpraktikum III	lecture	TU-Berlin	2
SF4	Schumacher, G.	Physik der Superlegierungen	lecture	TU-Berlin	2
SF6	Behne, D.	Spurenelementanalyse: Einführung und spezielle Probleme (Umweltanalytik, Medizin, Biologie)	lecture	FU-Berlin	1
SF6	Behne, D.; Kyriakopoulos, A.	Biochemie von Spurenelementen	seminar	FU-Berlin	1
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
SE1	Gall, S.	Grundlagen der Bauelemente für die photovoltaische Energiewandlung	lecture	TU-Berlin	2
SE1	Nickel, N.H.	Grundlagen von photovoltaischen Solarzellen	seminar	TU-Berlin	1
SE2	Fischer, C.	Quantitative analytische Chemie	lecture	FU-Berlin	2
SE2	Lux-Steiner, M.C.; Sadewasser, S.	Festkörperphysik	lecture	FU-Berlin	4
SE2	Lux-Steiner, M.C.; Sadewasser, S.	Festkörperphysik - Übungen zur VL	tutorial	FU-Berlin	2
SE2	Sadewasser, S.	II Jornada de Electrónica y Tecnologías de Información y Telecomunicaciones - Microsistemas y Nanotecnologías	seminar	Universidad del Norte, Barranquilla, Colombia	1
SE3	Schock, H.; Kötschau, I.; Weber, A.	Herstellung einer Siliziumsolarzelle	lab course	TU-Berlin	3
SE5	Lewerenz, H.J.	Oberflächenphysikalische	seminar	TU-Berlin	2

Dep.	Lecturer	Topic	Course	University	Hrs/week
		Untersuchungen an energieumwandelnden Halbleiterstrukturen			
SE5	Tributsch, H.	Bionische Strategien zur regenerativen Energienutzung	lecture	FU-Berlin	2
I	Nielsen, U.	Rechnergeführte elektronische Prozessleittechnik	lecture	TU-Berlin	2

Winter Term 2005/2006					
SF1	Mezei, F.	27th Tutroial on Neutron Scattering	tutorial	TU-Berlin	1
SF3	Banhart, J.	Technologie der Alumiumwerkstoffe	lecture	TU-Berlin	4
SF4	Mahnke, H.; Schiwietz, G.	Ionenstrahlphysik	seminar	FU-Berlin	2
SF4	Mahnke, H.	Einführung in die Kern- und Teilchenphysik	lecture	FU-Berlin	4
SF5	Martin, F.	Statistische Physik: Theorie der Wärme	lecture	FU-Berlin	4
SF5	Thul, R.; Straube, R.	Statistische Physik: Theorie der Wärme	tutorial	FU-Berlin	4
SF6	Behne, D.; Kyriakopoulos, A.	Doktorandenseminar: Ausgewählte Gebiete der Spurenelementforschung	seminar	FU-Berlin	1
SF6	Behne, D.; Kyriakopoulos, A.	Biochemie von Spurenelementen	seminar	FU-Berlin	1
SF6	Behne, D.	Spurenelementanalyse: Einführung und spezielle Probleme (Umweltanalytik, Medizin, Biologie)	lecture	FU-Berlin	1
SF6	Kyriakopoulos, A.	Biochemie von Spurenelementen	lab course	FU-Berlin	5
SF6	Kyriakopoulos, A.	Biochemie von Spurenelementen	lecture	FU-Berlin	1
SE1	Nickel, N.H.	Wasserstoff in Festkörpern I	lecture	TU-Berlin	1
SE2	Fischer, C.	Quantitative analytische Chemie	lecture	FU-Berlin	2
SE2	Lux-Steiner, M.C.; Dittrich, T.	Festkörperspektroskopie	lecture	FU-Berlin	4
SE2	Siebentritt, S.; Rissom, T.	Festkörperphysik II - Halbleiterphysik	lecture	FU-Berlin	4
SE2	Siebentritt, S.; Rissom, T.	Festkörperphysik II - Halbleiterphysik	tutorial	FU-Berlin	2
SE5	Fiechter, S.	Grundlagen der Materialpräparation und Charakterisierung sulfidischer Halbleiter	lecture	TU-Berlin	2
SE5	Lewerenz, H.J.	Photovoltaische Solarzellen	lecture	TU-Berlin	2
SE5	Lewerenz, H.J.	Oberflächenphysikalische Untersuchungen an energieumwandelnden Halbleiterstrukturen	seminar	TU-Berlin	2
SE5	Tributsch, H.	Kinetik	lecture	FU-Berlin	2
I	Nielsen, U.	Rechnergeführte elektronische Prozessleittechnik	lecture	TU-Berlin	2

Exams

Dep.	Author	Title	University	Date
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Habilitation				
SE2	Siebentritt, S.	Shallow Defects in the Wide Gap Chalcopyrite CuGaSe ₂	FU-Berlin	06/05

Ph. D.				
SF1	Jalarvo, N.	Quasielastic neutron scattering study on the dynamical properties of an aromatic hydrogen bond	TU-Berlin	06/05
SF1	Manochine, S.	New software tools for simulations of new instruments for the future neutron sources	TU-Berlin	06/05
SF1	Poeste, T.	Tribologische Systeme	TU-Berlin	04/05
SF1	Teichert, A.	Untersuchung der mechanischen und magnetischen Eigenschaften von Si-Fe _{1-x} Cox Multischichtsystemen	TU-Berlin	08/05
SF3	Kindratchuk, V.	Microstructure Investigation of Modified Inconel 706 Superalloys after Different Thermal Treatments	TU-Berlin	12/05
SF5	Thul, R.	Analysis of intracellular reaction diffusion systems: The stochastic medium Calcium	FU-Berlin	01/05
SE1	Laades, A.	Preparation and Characterization of a-Si:H/c-Si Heterojunctions	TU-Berlin	12/05
SE1	Schneider, J.	Nucleation and growth during the formation of polycrystalline silicon thin films	TU-Berlin	08/05
SE2	Papathanasiou, O.	MOCVD-ZnSe-Schichten als Puffer in CuInS ₂ -Solarzellen	TU-Berlin	02/05
SE2	Vogel, M.	Grenzflächen in Phthalocyanin-C60-Solarzellen	FU-Berlin	11/05
SE4	Gundlach, L.	Surface Electron Transfer Dynamics in the Presence of Organic Chromophores	FU-Berlin	06/05
SE4	Kollonitsch, Z.	Zur atomaren und elektronischen Struktur der Oberflächen und Grenzflächen antimonhaltiger Halbleiter	Universität Duisburg-Essen	04/05
SE4	Letzig, T.	Wasserstoffbindungen auf rekonstruierten InP(100) Oberflächen	Ruhr-Universität Bochum	12/05
SE5	Citarella, G.	Preparation and Characterization of Silicon Solar Cells with Heterojunction	Fernuniversität Hagen	01/05
SE5	Moehl, T.	Untersuchung von Schichtgitterhalbleitern mittels photoelektrochemischer Mikrowellenreflektion	FU-Berlin	05/05
SE5	Schmithals, G.	Strukturelle und elektrochemische Charakterisierung der katalytischen Zentren für die Sauerstoffreduktion	FU-Berlin	10/05

Dep.	Author	Title	University	Date
Diploma				
SF1	Flemming, S.	Verteiltes Client-Server System zur Automatischen Spannungsdiffraktometer-Kalibrierung	TFH-Berlin	10/05
SF1	Tomm, A.	Entwicklung einer E-Learning Anwendung für den Aufbau von Neutronenstreu-Experimenten	TFH-Berlin	01/05
SF3	Boin, M.	Kompensation von Artefakten bei der Rekonstruktion tomographischer Datensätze	BA-Berlin	08/05
SF3	Höring, S.	Mikrochemische Untersuchungen von martensitaushärtenden Legierungen mit der dreidimensionalen Atomsonde	HU-Berlin	07/05
SF4	Naumann, I.	Polymergeldosimetrie an einem G8-MeV Protonenstrahl für die Therapie von Augentumoren	MLU Halle	11/05
SF5	Hinsch, H.	Competition of driven and diffusive motion in two-lane lattice gas models	FU-Berlin	06/05
SF5	Munk, T.	Stiff polymers in flow	FU-Berlin	02/05
SF5	Obermayer, B.	Nonequilibrium Dynamics of Semiflexible Polymers	FU-Berlin	10/05
SF6	Hättig, J.	Verteilung von Selen und Selenoproteinen im Gehirn zweier Tiermodelle	FU-Berlin	06/05
SF6	Richter, A.	Zur Analytik und Identifizierung von Spurenelementen und Spurenelement-Proteinen in Herz und Aorta von Nagetieren	TFH-Berlin	08/05
SF6	Wenda, N.	"Identifizierung von Spurenelementen und Spurenelementproteinen in der Prostata durch analytische und biochemische Methoden".	TFH-Berlin	10/05
SE1	Lange, F.	Charakterisierung von Silizium Heterosolarzellen mittels temperaturabhängigen I-U-Messungen und Photolumineszenz	FHTW Berlin	08/05
SE1	Weizman, M.	Properties of Laser-Crystallized Polycrystalline SiGe Alloys	TU-Berlin	03/05
SE2	Dudeck, G.	Dünnschichtsolarzellen auf der Basis von mittels MOCVD hergestellten polykristallinen CuGaSe ₂ -Absorbern	FHTW	06/05
SE2	Linke, M.	Der Einfluss künstlicher Alterung auf den Ladungsträgertransport in Zinkoxid dünnschichten	FU-Berlin	09/05
SE2	Pistor, P.	Quantitative Analysis of soft X-ray emission spectra applied to chalcopyrite solar cell materials	FU-Berlin	03/05
SE2	Sáez, R.	Cadmium-free CuInS ₂ / ZnS based thin film solar cells and minimodules	TU-Berlin	06/05
SE3	Gullasch, R.	Visualisierung von Verlustmechanismen in Dünnschichtsolarzellen	TFH-Berlin	08/05

Dep.	Author	Title	University	Date
SE3	Kirstein, U.	Verkapselung und Stabilitätstest von Dünnschicht PV-Modulen	FHTW Berlin	11/05
SE5	Harbauer, K.	Aufbau und Inbetriebnahme eines Kombinationssensors zur kombinierten Plasma- und Schichtcharakterisierung während des Magnetronsputterns	TFH-Berlin	01/05
SE5	Podzuweit, R.	Tanine als Photosensibilisatoren für Farbstoffsolarzellen	FU-Berlin	12/05
HAD	Boin, M.	Kompensation von Artefakten bei der Rekonstruktion tomographischer Datensätze	Berufsakademie in der FHW Berlin	08/05
HAD	Dähn, C.	Zellulärer Automat zur Modellierung elektrochemischer Oszillationen	Berufsakademie in der FHW Berlin	08/05
HAD	Flack, M.	WEB-basiertes Interface für ein Geoinformationssystem	Berufsakademie in der FHW Berlin	08/05
HAD	Hoàng Lê, K.	Visualisierung geowissenschaftlicher Modelle - Evaluierung von 3D Graphic Engines und prototypische Implementierung einer Lösung	Berufsakademie in der FHW Berlin	08/05
DE	Dürr, C.	Rauschanpassung von Breitbandkleinsignalverstärkern im Frequenzbereich 100 kHz - 350 Mhz	FHTW Berlin	09/05

Summer students etc.

The 18th HMI Summer Programme for undergraduate students took place from August 8th to September 30th, 2005. 24 students, including 9 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, 40 student trainees and 65 high school trainees visited the HMI for individual training projects.

Faculty appointments and Awards

Faculty appointments

Dep.	Name	Position	Date
SF4	Mahnke, H.	Honorarprofessor FU FU-Berlin	
SF4	Schiwietz, G.	außerplanmäß. Prof. TU-Berlin	
SE1	Böhme, C.	Assistant Professor University of Utah, Salt Lake City, USA	accepted 01/06
SE3	Schock, H.	Honorarprofessur TU-Berlin	

Awards

Dep.	Name	Award
SF1	Wimpory, R.	The Donald Julius Groen Prize 2004, 06.12.2005
SF3	Haibel, A.	POSTER-Preis der DGZfP, 04.05.2005
SF3	Haibel, A.	"BEST POSTER"-Preis EUROMAT, 06.09.2005
SF3	Manke, I.	Plakatwettbewerb der DGZfP, 03.05.2005
SF3	Rack, A.	Plakatwettbewerb der DGZfP, 03.05.2005
SF6	Richter, A.	Posterpreis der Gemeinsamen Herbsttagung, 25.11.2005
SF6	Wolf, C.	Posterpreis 2005 anlässlich der 21. Jahrestagung der GMS, 29.10.2005
SE1	Gall et. al., S.	Poster Award, 20 th European Photovoltaic Solar Energy Conference and Exhibition (EPSEC), 10.06.2005
SE1	Stangl et. al., R.	Poster Award, 31 st IEEE Photovoltaic Specialists Conference and Exhibition, Lake Boena Vista, USA, 07.01.2005
SE1	von Maydell et. al., K.	Paper Award, PVSEC-15, Shanghai, China, 14.10.2005
SE2	Rusu, M.	MRS Poster Award, 28.04.2005

Participation in external scientific bodies and committees

Dep.	Name	Committee / Board / Scientific body
SF	Steitz, R.	ILL Scientific Panel: Sub-Committee 9
SF1	Hilscher, D.	Isolde Neutron Time-of-Flight Committee, CERN
SF1	Krist, T.	Chairman COST Action P7
SF1	Mezei, F.	Journal of Neutron Research
SF1	Mezei, F.	Scientific Council Laboratoire Leon Brillouin (LLB), Saclay, France
SF1	Mezei, F.	International Advisory Committee of Conference on Polarized Neutrons in Condensed Matter Investigations
SF1	Mezei, F.	European Neutron Scattering Association (ENSA), Switzerland
SF1	Mezei, F.	International Advisory Council of the Budapest Neutron Center (BNC), Budapest, Hungary
SF1	Mezei, F.	Experimental Facilities Advisory Oversight Committee of the SNS Project, Oakridge (USA)
SF1	Pappas, C.	ILL College 4 Subcommittee
SF1	Pappas, C.	International Conference on Polarized Neutrons PNCMI 2006
SF2	Graf, H.	Komitee für Forschung mit Neutronen
SF2	Graf, H.	Instrumentierungsausschuss FRM-II
SF2	Graf, H.	BMBF Gutachterausschuss „Erforschung kondensierter Materie an Großgeräten“
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.	LET Instrument Advisory Board of the Rutherford Appleton Laboratory
SF2	Tennant, A.	Editor of the Journal of Statistical Mechanics: Theory and Experiment
SF2	Tennant, A.	Peer Review College of the EPSRC (Engineering and Physical Sciences Research Council)
SF2	Tennant, A.	ISIS Facility Access Panel
SF3	Abromeit, C.	Symposium Organizer for MRS Fall Meeting 2006, Boston
SF3	Abromeit, C.	Scientific committee for E-MRS-Fall Meeting 2006
SF3	Abromeit, C.	Int. Advisory Committee of the 5th Ural Seminar in Snezhinsk 2005
SF3	Banhart, J.	Programm committee of Thermec 2006
SF3	Banhart, J.	Commission for Editor of Materials Transactions
SF3	Banhart, J.	Organisation DFG-Symposium
SF3	Banhart, J.	International Science & Organizing Committee for MetFoam 2005
SF3	Banhart, J.	International Science & Organizing Committee for ICSSP III
SF3	Banhart, J.	Arbeitsgemeinschaft Metall- und Materialphysik der DPG
SF3	Banhart, J.	Assigned Scientific Committee of Iutam Symposium
SF3	Wanderka, N.	THERMEC 2006
SF3	Wanderka, N.	International Steering Field Emission Society
SF3	Wiedenmann, A.	ESS Instrumentation committee
SF3	Wiedenmann, A.	Instrumentation advisory board ANSTO/Australia

Dep.	Name	Committee / Board / Scientific body
SF3	Wiedenmann, A.	ILL Subcommittee College 7
SF3	Wiedenmann, A.	Advisory committee Instrumentation KAERI
SF3	Wiedenmann, A.	FRMII Instrument advisory committee
SF3	Wiedenmann, A.	Scientific committee, Paul-Scherrer-Institut (Switzerland)
SF3	Wiedenmann, A.	Organisation committee for Int. Conf. on polarised Neutrons
SF4	Denker, A.	IGAS-Beirat
SF4	Denker, A.	Centre Européen d'Archaeometrie Liège
SF4	Denker, A.	COST G8 (Non-destructive Testing of Museum Objects)
SF4	Denker, A.	Advisory Committee of the International Conference on Particle Induced X-ray Emission
SF4	Fink, D.	Radiation Effects and Defects in Solids
SF4	Homeyer, H.	International Organizing Committee of the International Conference on Cyclotrons and their Application
SF4	Homeyer, H.	International Advisory Committee on the TESLA Cyclotron Installation at VINCA, Belgrade
SF4	Mahnke, H.	Forschung mit nuklearen Sonden und Ionenstrahlen (KFSI)
SF4	Schiwietz, G.	Editorial Board "Nuclear Instruments and Methods"
SF4	Schiwietz, G.	ICACS (International Conference on Atomic Collisions in Solids)
SF4	Schiwietz, G.	Swift Heavy Ions in Matter , International Scientific Committee
SF4	Sielemann, R.	Member of the Editorial Board of the Journal "Hyperfine Interactions".
SF5	Falcke, M.	SFB 555 "Komplexe nichtlineare Prozesse"
SF5	Falcke, M.	Graduiertenkolleg "Dynamik und Evolution zellulärer und makromolekularer Prozesse"
SF6	Behne, D.	Member of the Local Scientific Committee of the 12th International Symposium on Trace Elements in Man and Animals
SF6	Behne, D.	Scientific Committee of the Conference Series "Nuclear Analytical Methods in the Life Sciences" (NAMLS)
SF6	Kyriakopoulos, A.	International scientific committee of the 8th International Symposium on Metal Ions in Biology and Medicine
SF7	von Oertzen, W.	Lise Meitner Prize committee of EPS
SF7	von Oertzen, W.	Conseil Scientifique du Departement (CSD), Physique nucléaire et corpusculaire, CNRS (F)
SE1	Gall, S.	Conference on Crystal Growth and Epitaxy "ACCGE-16", Montana, USA
SE1	Lips, K.	18th Workshop on Quantum Solar Energy Conversion (Quantsol) March 2006 in Rauris/Österreich
SE1	Nickel, N.H.	Intern. Conf. on Polycrystalline Semiconductors „POLYSE`2004“
SE1	Nickel, N.H.	Jury d'école doctorale, Ecole Polytechnique, Palaiseau
SE1	Nickel, N.H.	Jury d'école doctorale, Université Pierre et Marie Curie, Paris IV
SE1	von Maydell, K.	Prüfungsausschuss FHTW Berlin
SE2	Ennaoui, A.	International Steering Committee in Word Renewable Energy Congress IX
SE2	Ennaoui, A.	Editorial Board in Solar Energy Materials and Solar Cells
SE2	Fischer, C.	BESSY-Nutzerausschuss
SE2	Klenk, R.	Scientific Committee of the E-MRS 2005 Symposium F: Thin film and

Dep.	Name	Committee / Board / Scientific body
		nanostructured materials for Photovoltaics - THINC-PV2
SE2	Lux-Steiner, M.C.	Jury des Innovationspreises Berlin/Brandenburg
SE2	Lux-Steiner, M.C.	Topic Organiser and Committee Member of the International Scientific Advisory Committee for the 20th European Photovoltaic Solar Energy Conf. and Exhibition, Barcelona, 06/2005
SE2	Lux-Steiner, M.C.	EUREC Agency
SE2	Lux-Steiner, M.C.	Wissenschaftlicher Beirat des Forschungszentrums Rossendorf e.V. (FZR)
SE2	Lux-Steiner, M.C.	Hochschulrat der Universität Oldenburg
SE2	Lux-Steiner, M.C.	1. Vorsitzende des Vereins Arbeitsgemeinschaft Solare Materialien (ASM)
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.	Direktorium des nationalen Forschungsverbundes Sonnenenergie FVS (Verbund von außeruniversitären Forschungseinrichtungen auf dem Gebiet der regenerativen Energien)
SE2	Lux-Steiner, M.C.	Wissenschaftlicher Beirat der Sulfurcell Solartechnik GmbH
SE2	Schedel-Niedrig, T.	Eurec Agency
SE2	Siebentritt, S.	Co-Organizer of the Symposium F "Thin-Film Compound Semiconductor Photovoltaics" at the MRS Spring Meeting 2005, San Francisco
SE2	Siebentritt, S.	Organisationskomitee "Deutsche Physikerinnentagung November 2006"
SE3	Schock, H.	ICTMC
SE3	Schock, H.	Progress in Photovoltaics
SE3	Schock, H.	European Photovoltaic Solar Energy Conference
SE3	Schock, H.	WPSEC
SE3	Schock, H.	EMRS
SE5	Ellmer, K.	Verbundprojekt transparente Verbindungshalbleiter
SE5	Ellmer, K.	AiF-Projekt „Reaktives Magnetronspütern von CuInS ₂ -Solarzellen“
SE5	Lewerenz, H.J.	Department of Energy der USA (DOE)
SE5	Tributsch, H.	Department of Energy - Hydrogen Initiative
I	Nielsen, U.	Innovationsförderprogramm der Investitionsbank Berlin
I	Nielsen, U.	Fachbereich Berufsakademie in der FHW Berlin
I	Nielsen, U.	Mitgliederversammlung des DFN Vereins
I	Nielsen, U.	Ständige Kommission des Verwaltungsrates des Konrad-Zuse-Zentrums für Informationstechnik Berlin
I	Nielsen, U.	Fachkommission Technik der Dualen Kommission des Fachbereichs Berufsakademie an der FH für Wirtschaft Berlin
DE	Sauer, O.	Prüfungsausschuss der Fachrichtung Informatik der Berufsakademie Berlin
DE	Wulf, F.	Studiengruppe für Elektronische Instrumentierung (SEI)
DE	Wulf, F.	Committee for European Studies on Norms for Electronics (ESONE), XT/TCC
DN	Grzanna, J.	Applied Optics

Dep.	Name	Committee / Board / Scientific body
DN	Ziem, P.	Deutsche Oracle-Anwendergruppe e.V. (DOAG)
WGF	Steiner, M.	Steering Committee, Institut Laue-Langevin (ILL), Grenoble, France
WGF	Steiner, M.	Aufsichtsrat, BESSY GmbH Berlin
WGF	Steiner, M.	Commission on Neutron Scattering of the International Union of Crystallography, USA
WGF	Steiner, M.	DAAD
WGF	Steiner, M.	Innovationsrat des Ministeriums für Wirtschaft und Arbeit des Landes Sachsen-Anhalt

Organization of Scientific Conferences and Meetings

Dep.	Title	Type	Date
SF1	Fall Meeting of the COST Action P7, Budapest Dr. Thomas Krist	Workshop	13.10.05 - 15.10.05
SF1	Spring Meeting of the COST Action P7, Madrid Dr. Thomas Krist	Workshop	05.05.05 - 07.05.05
SF2	4th Workshop on Orbital Physics and Novel Phenomena in Transition Metal Oxides Dr. D. Argyriou	Workshop	05.10.05 - 06.10.05
SF3	Herbstschule im Rahmen von PNAM Dr. Astrid Haibel	Workshop	10.10.05 - 14.10.05
SF3	RICH 05 Dr. Nikolay Kardjilov	Workshop	12.12.05 - 13.12.05
SF4	8. Tesla Workshop "Nanoscience and Biomedicine with Ion Beams" Dr. H.-E. Mahnke	Workshop	18.04.05 - 20.04.05
SF4	PIANO 05- Physics with Ions Dr. H.-E. Mahnke	French-German Topical Summerschool	19.09.05 - 26.09.05
SF6	Gemeinsame Herbsttagung HMI-GSF Dr. A. Kyriakopoulos; Dr. D. Alber; G. Graebert	Conference	24.11.05 - 25.11.05
SF7	6th DETNI Meeting Dr. Gebauer	Workshop	29.04.05
SE1	Conference on Crystal Growth and Epitaxy "ACCGE-16"; Session: Growth of crystalline silicon and other photovoltaic materials Dr. Stefan Gall	Conference	10.07.05 - 15.07.05
SE2	PV Summer School 2005 Dr. Thomas Riedle, Dr. Susanne Siebentritt	Conference	28.08.05 - 04.09.05
DE	Studiengruppe für Elektronische Instrumentierung, Frühjahrstagung 2005 Dr. Friedrich Wulf	Conference	04.04.05 - 06.04.05
DE	Studiengruppe für Elektronische Instrumentierung, Herbsttagung 2005 Dr. Friedrich Wulf	Conference	26.09.05 - 28.09.05

