

Wechsel zu Intranet



▼ Nutzer

▪ Experimentierstationen

▪ Strahlrohre

▪ Insertion Devices

▪ Support & Infrastructure

▪ Nutzerformulare

▼ Nutzer Veröffentlichungen

Year 2006

Year 2005

Year 2004

Year 2003

Year 2002

Year 2001



Suche

Comments

Impressum

Datenschutzerklärung

Gute wiss. Praxis

Publications by BESSY Users 2003

L. Aballe, C. Rogero, K. Horn

Quantum-size effects in ultrathin Mg films: electronic structure and collective excitations
Surface Science, 518, 141, (2002)

M. Abo-Bakr, J. Feikes, K. Hollmack, H.-W. Hübers, P. Kuske, W.B. Peatman, U. Schade, G. Wüstefeld

Brilliant, Coherent Far Infrared (THz) Synchrotron Radiation
Phys. Rev. Lett., 90, 94801, (2003)

K. Adlkofer, A. Shaporenko, M. Zharnikov, M. Grunze, A. Ulman, M. Tanaka

Chemical engineering of gallium arsenide surfaces with 4'-methyl-4-mercaptobiphenyl and 4'-hydroxy-4-mercaptobiphenyl monolayers
J. Phys. Chem. B, 107, 11737-11741, (2003)

Ch. Ammon, A. Bayer, H.-P. Steinrück, G. Held

Low-temperature partial dissociation of water on Cu(110)
Chemical Physics Letters, 377, 163-169, (2003)

S. Andreev, A.D. Akhsakhalyan, M.A. Bibishkin, N.I. Chkhalo, S.V. Gaponov, S.A. Gusev, E.B. Klunokov, K.A. Prokhorov, N.N. Salashchenko, F. Schäfers, S.Yu. Zev

Multilayer optics for XUV spectral region: technology fabrication and applications
Central European Journal of Physics: CEJP, 1, 191-209, (2003)

D. Attwood, E. Anderson, G. Denbeaux, K. Goldberg, P. Naulleau, and G. Schneider

Soft X-ray microscopy and EUV Lithography: An update on Imaging at 20 - 40 nm Spatial Resolution
8th International Conference on X-Ray Lasers, 461 - 468, (2003)

K. Baberschke

Ferromagnetic Monolayers: A Fresh Look at Fundamentals
Physica Status Solidi (b), 236, 233, (2003)

B. Beckhoff, R. Fliegau, G. Ulm, J. Weser, G. Pepponi, C. Strel, P. Wobrauschek, T. Ehmann, L. Fabry, C. Mantler, S. Pahlke, B. Kanngießner, W. Malzer

Ultra-trace analysis of light elements and speciation of minute organic contaminants on silicon wafer surfaces by means of TXRF in combination with NEXAFS
Electrochem. So. Proc., 2003-03, 120-128, (2003)

B. Beckhoff, R. Fliegau, G. Ulm, J. Weser, G. Pepponi, C. Strel, P. Wobrauschek, T. Ehmann, L. Fabry, S. Pahlke, B. Kanngießner, W. Malzer

TXRF Analysis of Low Z Elements and TXRF-NEXAFS Speciation of Organic Contaminants on Silicon Wafer Surfaces Excited by Monochromatized Undulator Radiation
Solid State Phenomena, 92, 165-170, (2003)

B. Beckhoff, R. Fliegau, J. Weser and G. Ulm

A Novel Instrumentation for Contamination and Deposition Control on 300 mm Silicon Wafers Employing Synchrotron Radiation Based TXRF and EDXRF Analysis

Solid State Phenomena, 92, 89-92, (2003)

B. Beckhoff, R. Fliegau, G. Ulm

Investigation of high-resolution superconducting tunnel junction detectors for low-energy X-ray fluorescence analysis
Spectrochimica Acta B, 58, 615-626, (2003)

S. Bengió, H. Ascolani, N. Franco, J. Avila, M.C. Asensio, E. Dudzik, I.T. McGovern, T. Gießel, R. Lindsay, A.M. Bradshaw and D.P. Woodruff

Quantitative determination of the adsorption site of the OH radicals in the H₂O/Si(100) system
Phys. Rev. B, 66, 195322-1-8, (2002)

M. Bhattacharya, Mukherjee, M., Sanyal, M.K., Geue, T., Grenzer, J. and Pietsch, U.

Energy dispersive x-ray reflectivity technique to study thermal properties of polymer films
J. App. Phys., 94, 2882-2887, (2003)

R.I.R. Blyth, J. Thomson, Y. Zou, R. Fink, E. Umbach, G. Gigli, and R Cingolani

Characterization of Thin Films of the Organic Infra-red Emitters Yb- and Er-tris(8-hydroxyquinoline) by X-ray Photoemission Spectroscopy
Synth. Metals, 139, 209, (2003)

C. Bolm, M. Martin, G. Gescheidt, C. Palivan, D. Neshchadin, H. Bertagnolli, M. Feth, A. Schweiger, G. Mitrikas, J. Harmer

Spectroscopic Investigations of Bis(sulfoximine) Copper (II) Complexes and their Relevance in Asymmetric Catalysis
J. Am. Chem. Soc., 125, 6222, (2003)

S. V. Borisenko, A. A. Kordyuk, T. K. Kim, A. Koitzsch, M. Knupfer, J. Fink, M. S. Golden, M. Eschrig, H. Berger, R. Follath

Anomalous enhancement of the coupling to the magnetic resonance mode in underdoped Pb-Bi₂2₁₂
Physical Review Letters, 90, 207001, (2003)

W. Braun, B. Jenichen, V. M. Kaganer, A. S. Shtukenberg, L. Däweritz, K. H. Ploog

Island and pit kinetics on the growing GaAs (001) surface studied by synchrotron X-ray diffraction
Journal of Crystal Growth, 251, 56-61, (2003)

W. Braun, B. Jenichen, V. M. Kaganer, A. G. Shtukenberg, L. Däweritz, K. H. Ploog

Layer-by-layer growth of GaAs(001) studied by in situ synchrotron X-ray diffraction
Surf. Sci., 525, 126-136, (2003)

A. Brechling, M. Sundermann, U. Kleineberg and U. Heinzmann

Characterization of DMPC bilayers and multilamellar islands on hydrophobic Self-Assembled Monolayers of ODS/Si (100) and mixed ODS-DDS/Si (100) by nc-AFM and X-ray reflectometry
Thin Solid Films, 433, 281, (2003)

M. Broschwitz

Optische und magnetooptische Eigenschaften von UxLa_{1-x}S Einkristallen und epitaktischen MnPt₃ und CrPt₃-Filmen,
Dissertation
TU Braunschweig, (2003)

M. Brunnbauer

Röntgenstabilität und Struktur von Monolagen aliphatischer und araliphatischer Aliphatische Thiole auf Münzmetallen - Eine Synchrotronstudie, Dissertation
Universität Hamburg, (2003)

V. I. Bukhtiyarov, M. Hävecker, V. V. Kaichev, A. Knop-Gericke, R. W. Mayer, R. Schlögl
Atomic oxygen species on silver: Photoelectron spectroscopy and X-ray absorption studies
Phys. Rev. B, 67, 235422, (2003)

Y. Burkov
Untersuchungen von Oberflächenprozessen des Mischkristalls CuInS₂/ZnS, Diploma
BTU Cottbus, (2003)

D. Bürgler, M. Buchmeier, S. Cramm, S. Eisebitt, R. R. Gareev, P. Grünberg, C. Jia, L. Pohlmann, R. Schreiber, M. Siegel, Y. Quin, K. Urban, A. Zimina
Exchange coupling of ferromagnetic films across metallic and semi conducting interlayers
Journal of Physics - Condensed Matter, 15, 443, (2003)

L. I. Chelaru
Microscopic studies of interlayer magnetic coupling across nonmagnetic and antiferromagnetic spacer layers,
Dissertation
Martin-Luther-Universität Halle-Wittenberg, (2003)

N. A. Cherepkov, S.K. Semenov, M. Drescher, U. Heinzmann
Resonance enhancement of non-dipole effects in spin polarization of atomic photoelectrons
J. Phys. B: At. Mol. Opt. Phys., 36, 3063-3078, (2003)

N. Darowski, I. Zizak, G. Schumacher, S. Klaumünzer, E. Wendler
Surface Crystallinity and Radiation-Amorphization of InP - an X-ray Grazing Incidence Study
Nucl. Instr. and Meth. B, 209, 131-135, (2003)

R. Denecke, B. Tränkenschuh, M. P. Engelhardt and H.-P. Steinrück
Adsorption kinetics of CO on Cr/Ru surfaces
Surface Science, 532-535, 173-178, (2003)

A. Denker, O. Hahn, B. Kanngießler, W. Malzer, S. Merchel, M. Radtke, S. Röhrs, I. Reiche, H. Stege
Chemie der Kunst - Zerstörungsfreie Analyse von Kunst- und Kulturgütern
MP Materialprüfung / Carl Hanser Verlag München, 45 (11-12), 485-503, (2003)

Y.M. Desta, Y. Jin, J. Goettert, Louisiana State Univ., L. Jian, M. Bednarzik, B. Löchel, H. Scheunemann
Borosilicate Glass Based X-ray Masks for LIGA Microfabrication
SPIE (2003) Int. Symposium on Micromachining and Microfabrication, 514-522, (2003)

S.S. Dhesi, H.A. Dürr, M. Münzenberg, W. Felsch
Isolating the interface magneto crystalline anisotropy contributions in magnetic multilayer
Phys. Rev. Lett., 90, 117204, (2003)

V. Dietz, and N. Schwentner
Online measurement of photochemical reaction rates in the VUV with a quartz microbalance: Cl₂ and Cu
Surf. Sci., 528, 215-218, (2003)

- E.P. Domashevskaya, V.A. Terekhov, V.M. Kashkarov, S.Yu. Turishchev, S.L. Molodtsov, D.V. Vyalykh, D.A. Vinokurov, V.P. Ulin, M.V. Shishkov, I.N. Arsentev, I.S. Tarasov, and Zh.I. Alferov
Synchrotron investigations of electron-energy spectra in A3B5 nanostructures
Semiconductors, 37, 992, (2003)
- S.-L. Drechsler, Z. Hu, J. Malek, H. Rosner, R. Neudert, M. Knupfer, M. S. Golden, J. Fink
X-ray absorption spectroscopy of CuO₂ chains
J. Low Temp. Phys., 131, 369-373, (2003)
- S. Dreiner, C. Westphal, M. Schürmann, and H. Zacharias
Angle-Scanned X-ray Photoelectron Diffraction of Clean and Hydrogen Terminated 2x1-reconstructed Si(100) Surfaces
Thin Sol. Films, 428, 123, (2003)
- M. Drescher, T. Khalil, N. Müller, S. Fritzsche, N.M. Kabachnik, U. Heinzmann
Spin polarization transfer in the resonant Auger decay following Kr 3d⁻¹ 5p photoexcitation
J. Phys. B: At. Mol. Opt. Phys., 36, 3337-3347, (2003)
- A.-C. Dupuis, M. Abu Haija, B. Richter, H. Kühlenbeck, H.-J. Freund
V₂O₃(0001) on Au(111) and W(110): growth, termination and electronic structure
Surf. Sci., 539, 99, (2002)
- A. Ehresmann, H. Liebel, M. von Kröger, H. Schmoranzer
Vibrationally resolved band profiles for autoionisation of NO $\left(c^3\Pi\right) \left(\nu_{i=0}\right)$ Rydberg states into NO⁺ $A^1\Pi\left(\nu_{i=0,1,2}\right)$ vibronic levels
J. El. Spectrosc. Rel. Phen., 130, 49-56, (2003)
- A. Ehresmann, H. Liebel, H. Schmoranzer, B. Zimmermann, S. Kammer, K.-H. Schartner, Ph.V. Demekhin, V.L. Sukhorukov
Double photoionization of N₂ into the N₂²⁺ D¹ Σ_u^+ -state
J. Phys. B: At. Mol. Opt. Phys., 36, 3669-3681, (2003)
- A. Ehrmann, J. Rau, A. Wolter, F.M. Kamm, J. Mathuni, F. Scholze, J. Tümmler, G. Ulm
Mask CD characterization with EUV reflectometry at the electron storage ring BESSY II
GMM-Fachbericht, 39, 59-64, (2003)
- A. Eichler
Flugzeitmassenspektroskopie zur Untersuchung von Photoionisation und Photodissoziation ionischer Bindungen,
Diploma
TU Berlin, (2003)
- T. Eimüller, B. Niemann, P. Guttman, G. Schmah, P. Fischer, G. Schütz
The magnetic transmission X-ray microscopy project at BESSY II
J. Phys. IV, 104, 91-94, (2003)
- T. Eimüller, P. Fischer, P. Guttman, G. Denbeaux, M. Scholz, M. Köhler, G. Schmah, G. Bayreuther, G. Schütz
Multilayered magnetic nanostrips studied by transmission X-ray microscopy
J. Phys. IV, 104, 483-486, (2003)
- S. Eisebitt, M. Lörger, W. Eberhardt, J. Lüning, J. Stöhr, C. T. Rettner, O. Hellwig, E. E. Fullerton, G. Denbeaux
Polarization effects in coherent scattering from magnetic specimen: implications for x-ray holography, lensless imaging and correlation spectroscopy

Phys. Rev. B, 68, 104419, (2003)

H. J. Elmers, G. H. Fecher, D. Valdaitsev, S. A. Nepijko, A. Gloskovskii, G. Jakob, G. Schönhense, S. Wurmehl, T. Block, C. Felser, P.-C. Hsu and W.-L. Tsai

Element specific magnetic moments from core-absorption magnetic circular dichroism of the doped Heusler alloy Co₂Si

Phys. Rev. B, 67, 104412, (2003)

D. Ensling, R. Hunger, D. Kraft, T. Mayer, W. Jaegermann, M. Rodriguez-Girones, V. Ichizli, H. L. Hartnagel

Pulse plating of Pt on n-GaAs (100) wafer surfaces: Synchrotron induced photoelectron spectroscopy and XPS of wet fabrication processes

Nuclear Instruments & Methods in Physics Research Section B- Beam Interactions with Materials and Atoms, 200, 432-438, (2003)

M. Farle, H. Wende, D. Arvanitis (editors)

Spin-Orbit Interaction and Local Structure in Magnetic Systems with Reduced Dimensions (Proceedings of the 281. Wilhelm and Else Heraeus Seminar)

J. Phys.: Condens. Matter, 15, No. 5, (2003)

K. Fauth, M. Heßler, D. Batchelor and G. Schütz

Strong influence of defects on the electronic structure of Pt adatoms and clusters on graphite

Surf. Sci, 529, 397, (2003)

S.I. Fedoseenko, D. V. Vyalikh, I. E. Iossifov, R. Follath, S. A. Gorovikov, R. Püttner, J.-S. Schmidt, S. L. Molodtsov, V. K. Adamchuk, W. Gudat, and G. Kaindl

Commissioning results and performance of the high-resolution Russian-German beamline at BESSY II

Nucl. Instr. Meth. A, 718, 505, (2003)

C. Felser, B. Heitkamp, F. Kronast, D. Schmitz, S. Cramm, H. A. Dürr, H.-J. Elmers, G. H. Fecher, S. Wurmehl, T. Block, D. Valdaitsev, S. A. Nepijko, A. Gloskovskii, G. Jakob, G. Schönhense, W. Eberhardt

Investigation of a novel material for magnetoelectronics: Co₂Cr_{0.6}Fe_{0.4}Al

J. of Phys.: Condens. Matter, 15, 7019, (2003)

M.P. Feth, A. Klein, H. Bertagnolli

Investigation of the ligand exchange behavior of square planar nickel(II) complexes by X-ray absorption spectroscopy and X-ray diffraction

Eur. J. Inorg. Chem, 839-852, (2003)

J.-H. Fillion, Dulieu F., Baouche S., Lemaire J.-L., Jochims H.-W., and Leach S.

Ionisation yield and absorption spectra reveal superexcited Rydberg state relaxation processes in H₂O and D₂O

J. Phys. B: At.Mol.Opt.Phys, 36, 2767 - 2776, (2003)

M. Fonin, Yu. Dedkov, Ch. Kunig, G. Güntherodt, U. Rüdiger, J. Mayer, D. Vyalikh, and S.L. Molodtsov

Room Temperature Spin Polarization of Epitaxial Half-Metallic Fe₃O₄(111) and CrO₂(100)

Adv. Solid State Phys, 43, 487, (2003)

S. Frey, A. Shaporenko, M. Zharnikov, P. Harder, D. L. Allara

Self-assembled monolayers of nitrile-functionalized alkanethiols on gold and silver substrates

J. Phys. Chem. B, 107, 7716-7725, (2003)

- J. Fritsche
Grenzflächen und Inhomogenitäten polykristalliner CdTe-Dünnschichtsolarzellen: Charakterisierung und zielgerichtete Modifizierung, Dissertation
Technische Universität Darmstadt, (2003)
- K.Y. Gao, Th. Seyller, L. Ley, F. Ciobanu, G. Pensl, A. Tadich, J.D. Riley, R.G.C. Leckey
Al₂O₃ prepared by atomic layer deposition as gate dielectric on 6H-SiC(0001)
Appl. Phys. Lett., 83, 1830, (2003)
- F. Gard, Riley J D, Leckey R, Usher BF
A RHEED Study of MBE Growth of ZnSe on GaAs (111) A-(2 x 2)
Surface Review and Letters, 10 (4), 669, (2003)
- M. Gensch, K. Hinrichs, A. Röseler, E.H. Korte, and U. Schade
Instrumentation for FT-IR reflection spectroscopy with synchrotron radiation
Anal. Bioanal. Chem., 376, 626-630, (2003)
- T. Gießel, D. Bröcker, P. Schmidt, W. Widdra
Time-Resolving and Energy-Dispersive Photoelectron Detector for combined Laser and Synchrotron Radiation Experiments
Review of Scientific Instruments, 74, 11, (2003)
- L. Glaser
Präparation von ultradünnen Metallschichten und Analyse mit Thermodesorptionsspektroskopie, Diploma
Universität Hamburg, (2003)
- S. Gleber, C. Knöchel, J. Thieme, D. Rudolph, G. Schmahl
3-D computer reconstruction of X-ray microscopy objects from stereo images
J. Phys. IV, 104, 639-642, (2003)
- Th. Gleim, L. Weinhardt, Th. Schmidt, R. Fink, C. Heske, E. Umbach, L. Hansen, G. Landwehr, A. Waag, A. Fleszar, B. Richter, Ch. Ammon, M. Probst, H.-P. Steinrück
Influence of As passivation on the electronic level alignment at BeTe/Si(111) interfaces
Physical Review B, 67, 205315, (2003)
- Th. Gleim, C. Heske, E. Umbach, C. Schumacher, S. Gundel, W. Faschinger, A. Fleszar, Ch. Ammon, M. Probst, H.-P. Steinrück
Formation of the ZnSe/(Te)GaAs(100) heterojunction
Surface Science, 531, 77-85, (2003)
- K. Godehusen, T. Richter, P. Zimmermann, M. Martins
Ion charge resolved 3p photoabsorption measurements of atomic Cr
J. Phys. B, 36, L387, (2003)
- K. Godehusen, H.-C. Mertins, T. Richter, P. Zimmermann, M. Martins
Electron-correlation effects in the angular distribution of photoelectrons from Kr investigated by rotating the polarization axis of undulator radiation
Phys. Rev. A, 68, 12711, (2003)
- K. Godehusen, Ph. Wernet, T. Richter, P. Zimmermann, M. Martins
Determination of the beta parameter for atomic Mn and Cr 2p photoemission: A benchmark test for core-electron

photoionization theories
Phys. Rev. A, 68, 52707, (2003)

M. S. Golden, T. Pichler, P. Rudolf
Charge transfer and bonding in endohedral fullerenes from high energy spectroscopy
Springer Series Structure and Bonding (Ed. K. Prassides), in print, (2003)

M.V. Gomoyunova, I.I. Pronin, N.R. Gall, S.L. Molodsov, and D.V. Vyalikh
*Si 2p photoemission spectra of thin films of CoSi₂ formed on Si(100)^{2*1}*
J. Solid State Physics (Russian), 45, 180, (2003)

M.V. Gomoyunova, I.I. Pronin, N.R. Gall, S.L. Molodsov, and D.V. Vyalikh
Disappearance of surface reconstruction of Si after adsorption of Co
J. Technical Physics Letters (Russian), 29, 115, (2003)

M.J. Gottfried, K.J. Schmidt, S.L.M. Schroeder & K. Christmann
Oxygen Chemisorption on Au(110)-(1x2). II. Spectroscopic and Reactive Thermal Desorption Measurements
Surf. Sci., 525, 197-206, (2003)

J. Grabis, A. Nefedov, H. Zabel
A diffractometer for soft x-ray resonant magnetic scattering
Rev. Sci. Instr., 74(9), 4048-4051, (2003)

P. Guttman, B. Niemann, S. Rehbein, C. Knöchel, D. Rudolph, G. Schmahl
The transmission X-ray microscope at BESSY II
J. Phys. IV, 104, 85-90, (2003)

M. Hecker, H.-Ch. Mertins, D. Abramsohn, C.M. Schneider
Soft X-Ray L-MOKE measured from Co/Cu Multilayers at the Co L_{2,3}Edges
J. Appl. Phys., 93, 6516 - 6518, (2003)

W.M. Heijboer, A.A. Battiston, A. Knop-Gericke, M. Hävecker, H. Bluhm, B.M. Weckhuysen, D. C. Koningsberger, F. M. F. De Groot
Redox behavior of over-exchanged Fe/ZSM5 zeolites studied with in-situ soft X-ray absorption spectroscopy
Phys. Chem. Chem. Phys., 5, 4484-4491, (2003)

S. Heim, S. Rudolph, D. Rudolph, G. Schmahl
Hard real time control software for use in electron beam lithography with an emphasis on patterns with radial symmetry
J. Phys. IV, 104, 197-201, (2003)

B. Heitkamp
Charakterisierung magnetischer Materialien mit X-PEEM
Berichte des Forschungszentrums Jülich, 4068, (2003)

G. Held, H.-P. Steinrück
Cyclic hydrocarbons
Landolt-Börnstein "Physics of Covered Solid Surfaces - I. Adsorbed Layers on Surfaces", H. P. Bonzel (ed.), in print, (2003)

U. Hergenbahn, A. Rüdell, K. Maier, A.M. Bradshaw, R.F. Fink, A.T. Wen

The Resonant Auger Spectra of Formic Acid, Acetaldehyde, Acetic Acid and Methyl Formate
Chemical Physics, 289, 57-67, (2003)

C. Heske, U. Groh, O. Fuchs, E. Umbach, Th. Schedel-Niedrig, Ch.-H. Fischer, M.Ch. Lux-Steiner, S. Zweigart, F. Karg, J.D. Denlinger, B. Rude, C. Andrus, and F. Powell
Monitoring chemical reactions on surfaces in liquids: water on CuIn(S,Se)₂ thin film solar cell absorbers
J. Chem. Phys. (Comm.), 119, 10467, (2003)

C. Heske
Studying buried interfaces with soft x-ray spectroscopy
Synchrotron Radiation in Natural Sciences, 2, 35, (2003)

C. Heske
Untersuchungen zur elektronischen Struktur verborgener Grenzflächen und Schichten in Halbleitern, Habilitation
Universität Würzburg, (2003)

J.T. Hoeft, M.Polcik, D.Sayago, M. Kittel, R. Terborg, R.L. Toomes, J. Robinson, D.P.Woodruff, M.Pascal,G. Nisbet, C.L.A.Lamont
Local adsorption sites and bondlength changes in Ni(100)/H/CO and Ni(100)/CO
Surface Science, 540, 441-456, (2003)

P. Hoffmann, D. Schmeißer, G. Roters, Z. Nenyai
Non-Destructive Probing of Interfacial Oxydation and Nitridation Stages at RTP Si-Oxides
Thin Solid Films, 428, 216-222, (2003)

P. Hoffmann
Untersuchungen zu Inhomogenitäten an der Halbleitergrenzfläche Silizium-Siliziumoxynitrid, Dissertation
TU Cottbus, (2003)

K. Horn, M. Moreno, M. Alonso, M. Höricke, R. Hey, J.L. Sacedon, K.H. Ploog
Photoemission from Heterojunctions with intralayers: band offset changes vs. Band bending effects
Vacuum, 67, 115, (2002)

G. J. Hutchings, J. A. Lopez-Sanchez, J. K. Bartley, J. M. Webster, A. Burrows, C. J. Kiely, A. F. Carley, C. Rhodes, M. Hävecker, A. Knop-Gericke, R. W. Mayer, R. Schlögl, J. C. Volta, M. Poliakoff
Amorphous Vanadium Phosphate Catalysts Prepared using Precipitation with Supercritical CO₂ as an Antisolvent
J. Catal., 208, 197-210, (2002)

F. Hübinger, A. S. Shulakov, K. Starke, A. Y. Grigoriev, and G. Kaindl
Surface X-ray Emission from Lanthanide Metals
Surf. Sci. Lett., 526, L137, (2003)

M. Hävecker, A. Knop-Gericke, R. W. Mayer, M. Fait, H. Bluhm, R. Schlögl
Influence of the geometric structure on the VL3 near edge X-ray absorption fine structure of vanadium phosphorous oxide catalysts
J. Elec. Relat. Phen., 125, 79-87, (2002)

M. Hävecker, R. W. Mayer, A. Knop-Gericke, H. Bluhm, E. Kleimenov, A. Liskowski, D. Su, R. Follath, F. G. Requejo, D. F. Olgetree, M. Salmeron, J. A. Lopez-Sanchez, J. K. Bartley, G. J. Hutchings, R. Schlögl
In situ investigations of the nature of the active surface of a vanadyl pyrophosphate catalyst during n-butane oxidation to maleic anhydride

J. Phys. Chem., 107, 4587-4596, (2003)

B. Illerhaus, N. Hort, C. Potzies, H. Frank, J. Goebbels

Non-destructive Testing of Cast Magnesium Alloys by Computerized Tomography

Proc. of the 6th Int. Conf. Magnesium Alloys and their Applications, Ed. K.U. Kainer, Wiley-VCH, 746-751, (2003)

W. Jaegermann, T. Mayer, eds

Adsorption of H₂O on Semiconductors in: Physics of Covered Surfaces

LANDOLT-BÖRNSTEIN, ed. H.P. Bonzel, in print, (2003)

J. Jakubowicz, H. Jungblut and H. J. Lewerenz

Initial Surface Topography Changes During Divalent Dissolution of Silicon Electrodes

Electrochim. Acta, 49, 137, (2003)

C. Janowitz, R. Müller, L. Dudy, R.-St. Unger, A. Krapf, R. Manzke, C. Ast, H. Höchst

Progress in the understanding of the normal state of the cuprates

Applied Phys. A, 76, 673, (2003)

Ch. Janowitz

Photoemission an 3-, 2- und 2-delta dimensionalen Festkörpern, Habilitation

HU Berlin, (2003)

B. Jenichen, V. M. Kaganer, M. Kästner, C. Herrmann, L. Däweritz, K. H. Ploog, N. Darowski, and I. Zizak

Constrained phase coexistence near the Curie Temperature in MnAs(0001)/GaAs(111) epitaxial films

Phys. Rev. B., 68, 132301, (2003)

B. Jenichen, V.M. Kaganer, M. Kästner, C. Herrmann, L. Däweritz, K.H. Ploog, N. Darowski, I. Zizak

Structural and magnetic phase transition in MnAs(0001)/GaAs(111) epitaxial films

Physical Review B, 68, 132301, (2003)

B. Jenichen, W. Braun, V. M. Kaganer, A. G. Shtukenberg, L. Däweritz, C. Schulz, and K. H. Ploog

Combined molecular beam epitaxy and diffractometer system for in situ x-ray studies of crystal growth

Rev. Sci. Instrum, 74, 1267-1273, (2003)

V.M. Kaganer, W. Braun, B. Jenichen, L. Däweritz, and K. H. Ploog

Two-Dimensional Coarsening Kinetics of Reconstruction Domains: GaAs(001)-beta(2x4),

Phys. Rev. Lett., 90, 16101, (2003)

T.U. Kampen, D.R.T. Zahn, W. Braun, C. Gonzáles, I. Benito, J. Ortega, L. Jurczyszyn, J.M. Blanco, R. Pérez, F. Flores

Surface Properties of Chalcogen Passivated GaAs(100)

Appl. Surf. Sci., 212-213, 850, (2003)

T.U. Kampen, G. Gavrila, H. Méndez, D.R.T. Zahn, A.R. Vearey-Roberts, D.A. Evans, J. Wells, I. McGovern, W. Braun

Electronic Properties of Interfaces between Perylene Derivatives and GaAs(001) Surfaces

J. Phys.: Condens. Matter, Special issue: "Organic-Inorganic Semiconductor Interfaces",, 15, 2679, (2003)

T.U. Kampen, S. Park, D.R.T. Zahn

Organic modified Schottky contacts: Barrier height engineering and chemical stability

J. Vac. Sci. Technol. B, 21, 879, (2003)

T.U. Kampen
Organic-Inorganic Semiconductor Interfaces: Physical Properties and Application in Schottky Contacts , Habilitation
TU Chemnitz, (2003)

J-H. Kang, R. L. Toomes, M. Polcik, M. Kittel, J. T. Hoelt, V. Efsthathiou, D. P. Woodruff and A. M. Bradshaw,
Structural investigation of glycine on Cu(100) and comparison to glycine on Cu(110)
J. Chem. Phys., 118, 6059-6071, (2003)

B. Kanngiesser, W. Malzer, M. Müller, N. Schmidt, P. Zimmermann, A.G. Kochur, V.L. Sukhorukov
Cascade decay of atomic magnesium after photoionization with a photoelectron-photoion coincidence method
Phys. Rev. A, 68, 22704, (2003)

M. Katsikini, F. Pinakidou, E. C. Paloura, W. Wesch
Identification of implantation - induced defects in GaN: A near edge x-ray absorption fine structure study
Applied Physics Letters, 82, 1556, (2003)

M. Katsikini, F. Pinakidou, N. Vouroutzis, R. Mitdank, A. Markwitz, E. C. Paloura
NEXAFS and AFM characterization of Si implanted GaN
Nuclear Instruments and Methods B, 200, 120, (2003)

Tarek Khalil
New resonant behavior in the spin resolved photoionization of the rare gas atoms Kr 3d and Xe 4p , Dissertation
Universität Bielefeld, (2003)

T. K. Kim, A. A. Kordyuk, S. V. Borisenko, A. Koitzsch, M. Knupfer, H. Berger, J. Fink
Doping Dependence of the Mass Enhancement in (Pb,Bi)2Sr2CaCu2O8 at the Antinodal Point in the Superconducting and Normal States
Physical Review Letters, 91, 167002, (2003)

A. Klein
Electronic Properties of Thin Film Semiconductors , Habilitation
Technische Universität Darmstadt, (2003)

U. Kleineberg, Th. Westerwalbesloh, W. Hachmann, U. Heinzmann, J. Tümmler, F. Scholze, G. Ulm, S. Müllender
Effect of substrate roughness on Mo/Si multilayer optics for EUVL produced by UHV-e-beam evaporation and ion polishing
Thin Solid Films, 433, 230-236, (2003)

S. Klumpp
Spektroskopie von Rydbergserien zweifach angeregter Zustände in der Nähe der Kr-4s Ionisationsschwelle , Diploma
Universität Kaiserslautern, (2003)

J. Knobloch
The 'Q disease' in superconducting niobium rf cavities
AIP Conf. Proc., 671, 133, (2003)

M. Koch-Müller, P. Dera , Y. Fei, B. Reno, N. Sobolev, E. Hauri, R. Wysoczanski
OH in synthetic and natural coesite
American Mineralogist, 88, 1436-1445, (2003)

A.G. Kochur, V.L. Sukhorukov, V.F. Demekhin, C. Gerth, B. Kanngießner, P. Zimmermann
Cascading Decays of Innershell Vacancies
AIP Conf. Proc, 652, 256, (2003)

A. Koebbel, M. Polcik, D.R. Lloyd, I.T. McGovern, O. Schaff, R. Lindsay, A.J. Patchett, A.M. Bradshaw, D.P. Woodruff
*Local structure of OH adsorbed on the Ge(001)(2*1) surface using scanned-energy mode photoelectron diffraction*
Surface Science, 540, 246-254, (2003)

G. Koller, R.I.R. Blyth, S.A. Sardar, S. Eck, F.P. Netzer, M.G. Ramsey
Growth of ordered bithiophene layers on the p(2x1)O reconstructed Cu(110)
Surf. Sci., 536, 155-165, (2003)

M. Kotsugi, W. Kuch, F. Offi, L. I. Chelaru, J. Kirschner
Microspectroscopic Fermi surface mapping using a photoemission electron microscope
Rev. Sci. Instrum., 74, 2754-2758, (2003)

O. Krupin, J. E. Prieto, S. Gorovikov, K. Starke, and G. Kaindl
Ferrimagnetic spin order in O/Gd surface monoxide
Thin Solid Films, 428, 98, (2003)

W. Kuch
Layer-resolved microscopy of magnetic domains in multi-layered systems
Appl. Phys. A, 76, 665-671, (2003)

W. Kuch, L. I. Chelaru, K. Fukumoto, F. Porrati, F. Offi, M. Kotsugi, J. Kirschner
Layer-resolved imaging of magnetic interlayer coupling by domain wall stray fields
Phys. Rev. B, 67, 214403, (2003)

O. Kugeler, S. Marburger and U. Hergenhan
Calculation and Experimental Verification of the Time-of-Flight Spread in a Hemispherical Electron Energy Analyser
Review of Scientific Instruments, 74, 3955-3961, (2003)

O. Kugeler
Aufbau einer Elektronen-Koinzidenz Apparatur für Experimente mit Synchrotronstrahlung, Dissertation
Technische Universität Berlin, (2003)

B.M. Lagutin, Ph. V. Demekhin, V.L. Sukhorukov, A. Ehresmann, H. Schmoranzner
Interference Effects in Auger spectra at the 3dⁿnp resonances in Kr
J. Phys. B: At. Mol. Opt. Phys., 36, L163-68, (2003)

B.M. Lagutin, I.D. Petrov, V.L. Sukhorukov, Ph.V. Demekhin, B. Zimmermann, S. Mickat, S. Kammer, K.-H. Schartner, A. Ehresmann, Yu.A. Shutov and H. Schmoranzner
The interference effects in the alignment and orientation of KrII 4p45p states following KrI 3d95p resonance excitation
J. Phys. B: At.Mol.Opt.Phys., 36, 3252-3268, (2003)

B.M. Lagutin, I.D. Petrov, V.L. Sukhorukov, A. Ehresmann, Yu.A. Schutov, H. Schmoranzner, B. Zimmermann, S. Mickat, S. Kammer, K.-H. Schartner
Raman regime energy dependence of alignment and orientation of KrII states populated by the resonant Auger effect
Phys. Rev. Lett., 90, 73001, (2003)

- J.T. Lau, Ehrke, H.-U., Achleitner A., and Wurth, W.
Soft-landing of Size Selected Clusters in Rare Gas Matrices
Low Temp. Phys., 29, 223, (2003)
- C. Laubschat, S.L. Molodtsov, Yu. Kucherenko, M. Finken, M. Heber, and G. Behr
Configuration Mixing in Pr and Nd Transition-Metal Compounds
J. Electron. Spectrosc. Relat. Phenom, 128, 45-50, (2003)
- I. Lauermann, M. Bär, A. Ennaoui, U. Fiedeler, C.-H. Fischer, A. Grimm, I. M. Kötschau, M. C. Lux-Steiner, J. Reichardt, B. R. Sankapal, S. Siebentritt, S. Sokoll, L. Weinhardt, O. Fuchs, C. Heske, C. Jung, W. Gudat, F. Karg, and T. P. Niesen
Analysis of zinc compound buffer layers in Cu(In,Ga)(S,Se)₂ thin film solar cells by synchrotron-based soft X-ray spectroscopy
Mat. Res. Soc. Symp. Proc., B4.5.1, 763, (2003)
- S. Leach, Schwell, M., Talbi D., Berthier G., Hottmann K., Jochims H.-W., Baumgärtel H.
He I Photoelectron Spectroscopy of Four Isotopologues of Formic Acid : HCOOH, HCOOD,
Chem.Phys, 286, 15 - 43, (2003)
- M. V. Lebedev, Th. Mayer, W. Jaegermann
Sulfur adsorption at GaAs(100) from solution: role of the solvent in surface chemistry
Surface Science, 547, 171-183, (2003)
- R. Leckey
Ultraviolet Photoelectron Spectroscopy of Solids
Surface Analysis Methods in Materials Science, Eds. O'Connor, Sexton, Smart. 2nd Edition, 37-345, (2003)
- W. Leitenberger, Wendrock, H., Bischoff, L., Panzner, T., Pietsch, U., Grenzer, J., Pucher, A.
Double Pinhole Diffraction of White Synchrotron Radiation
Physica B, Condensed Matter, 336, 63-67, (2003)
- M. Letz, L. Parthier, A. Gottwald, M. Richter
Spatial anisotropy of the exciton level in CaF₂ at 11.1 eV and its relation to the weak optical anisotropy at 157 nm
Phys. Rev. B, 67, 233101-1, (2003)
- M. Letz, A. Gottwald, M. Richter, M. Brinkmann, G. Wehrhan, L. Parthier
On the optical anisotropy in the cubic crystal of CaF₂: Scaling arguments and their relation to dispersing absorption
Proc. SPIE, 5040, 662-666, (2003)
- H.J. Lewerenz, M. Aggour, C. Murrell, J. Jakubowicz, M. Kanis, S. A. Campbell, P. A. Cox, P. Hoffmann, H. Jungblut and D. Schmeißer
High Resolution Surface Analysis of Si Roughening in Dilute Ammonium Fluoride Solution
J. Electroanal. Chem., 540, 3, (2003)
- H.J. Lewerenz, M. Aggour, C. Murrell, M. Kanis, H. Jungblut, J. Jakubowicz, P. A. Cox, S. A. Campbell, P. Hoffmann and D. Schmeißer
Initial Stages of Structure Formation on Silicon Electrodes Investigated by Photoelectron Spectroscopy Using Synchrotron Radiation and in-situ Atomic Force Microscopy
J. Electrochem. Soc., 150, E185-E189, (2003)

- M.F. López, A. Gutiérrez, F. J. Pérez, M. P. Hierro y F. Pedraza
Soft X-ray absorption spectroscopy study of the effects of Si, Ce and Mo ion implantation on the passive layer of AISI 304 stainless steel
Corrosion Science, 45, 2043-2053, (2003)
- K. Lüdge, P. Vogt, W. Braun, W. Richter, N. Esser
Cobalt growth on InGaP (001) (2x4): Interface formation
J Vac. Sci. Technol. B, 21(4), 1749, (2003)
- S. Marburger, O. Kugeler, U. Hergenhahn, T. Möller
Experimental Evidence for Interatomic Coulombic Decay in Ne Clusters
Physical Review Letters, 90, 203401, (2003)
- M. Martins, K. Godehusen, T. Richter, P. Zimmermann
2p photoionization of atomic cobalt and nickel
AIP Conf. Proc., 652, 153, (2003)
- N. Matsuie, Y. Ouchi, H. Oji, E. Ito, H. Ishii, K. Seki, M. Hasegawa, M. Zharnikov
UV-photoinduced surface anisotropy of polyimide studied by near-edge x-ray absorption fine structure spectroscopy
Jpn. J. Appl. Phys., 42, L67-L69, (2003)
- R.W. Mayer, M. Melzer, M. Hävecker, A. Knop-Gericke, K. Weiss, J. Urban, H.J. Freund, R. Schlögl
Comparison of polycrystalline copper foil with small deposited copper cluster on their behaviour in the ammonia oxidation: An investigation by means of in situ NEXAFS spectroscopy in the soft X-ray range
Catal. Lett., 86, 245-250, (2003)
- J.-S. McEwen, S.H. Payne, H.J. Kreuzer, M. Kinne, R. Denecke, H.-P. Steinrück
Adsorption and desorption of CO on Pt(111): a comprehensive analysis
Surface Science, 545, 47, (2003)
- I. Melnikov, I. Radu, U. Bovensiepen, O. Krupin, K. Starke, E. Matthias, and M. Wolf
Coherent Optical Phonons and Parametrically Coupled Magnons Induced by Femtosecond Laser Excitation of the Gd(0001) Surface
Phys. Rev. Lett., 91, 227403, (2003)
- B. Mertens, B. Wolschrijn, R. Jansen, N. Koster, M. Weiss, M. Wedowski, R. Klein, T. Bock, R. Thornagel
EUV time resolved studies on carbon growth and cleaning
Proc. SPIE, 5037, 95-102, (2003)
- R. Mikalo
Elektronische Eigenschaften von leitfähigen konjugierten Polymeren und deren Grenzflächenreaktionen im elektronischen Kontakt mit Metallen, Dissertation
TU Cottbus, (2003)
- S.L. Molodtsov, F. Schiller, S. Danzenbächer, Manuel Richter, J. Avila, C. Laubschat, and M.C. Asensio
Folded Bands in Photoemission Spectra of La-Graphite Intercalation Compounds
Phys. Rev. B, 67, 115105, (2003)
- S.L. Molodtsov, Yu. Kucherenko, D.V. Vyalikh, G. Behr, A. Starodubov, and C. Laubschat
Strong Hybridization of 4f States of Heavy Rare-Earth's in Intermetallic Compounds

Phys. Rev. B, 68, 193101, (2003)

M. Moreno, B. Jenichen, V. Kaganer, W. Braun, A. Trampert, L. Däweritz, and K. H. Ploog
MnAs nanoclusters embedded in GaAs studied by x-ray diffuse and coherent scattering
Phys. Rev. B., 67, 235206, (2003)

B.R. Müller, A. Lange, M. Harwardt, M.P. Hentschel, B. Illerhaus, J. Goebbels, J. Bamberg, F. Heutling
Refraction Computed Tomography Applied to Metal Matrix Composites
35th Int. SAMPE Technical Conference, CD-ROM ISBN 0-93994-95-6, (2003)

R. Müller
Die Physik der CuO₂ Ebene am Beispiel des Modell-Hochtemperatur Supraleiters Bi₂Sr₂-xLaxCuO₆+delta, Dissertation
HU Berlin, (2003)

B.R. Müller, A. Lange, M. Harwardt, M.P. Hentschel, B. Illerhaus, J. Goebbels
First Refraction Enhanced 3D Computed Tomography - Application to Metal Matrix Composites
Int. Symp. on Computed Tomography and Image Processing for Industrial Radiology, CD-ROM ISBN 3-931381-48-X, (2003)

B.R. Müller, A. Lange, M.P. Hentschel
Non-Destructive Characterization of High Performance Composites by use of X-Ray Refraction Topography
SAMPE 2003 ISBN 0-938994-94-8, CD-ROM, 1203 - 1211, (2003)

K. Müller, P. Hoffmann, S. Milko, Y. Burkov, D. Schmeißer
Preparation of stoichiometric CuInS₂-surfaces - an XPS, UPS-study
Thin Solid Films, 312, 431, (2003)

A. Navratil
Kerreffekt von Seltenen Erden, Diploma
TU Braunschweig, (2003)

U. Neuhäusler, G. Schneider, W. Ludwig, M.A. Meyer, E. Zschech, D. Hambach
X-ray microscopy in Zernike phase contrast at 4 keV photon energy with 60 nm resolution
J. Phys. D: Appl. Phys., 36, A79-A82, (2003)

B. Niemann, P. Guttman, S. Rehbein
Concept and realization of the novel rotating condenser-monochromator at the Göttingen TXM at BESSY II
J. Phys. IV, 104, 273-276, (2003)

R. Nünthel, T. Gleitsmann, P. Pouloupoulos, A. Scherz, J. Lindner, E. Kosubek, Ch. Litwinski, Z. Li, H. Wende, K. Baberschke, S. Stolbov and T.S. Rahman
Epitaxial growth of Ni on Cu(001) with the assistance of O-surfactant and its magnetism compared to Ni/Cu(001)
Surf. Sci., 531, 53, (2003)

F. Offi, W. Kuch, L. I. Chelaru, M. Kotsugi, J. Kirschner
Local exchange bias observed by photoemission microscopy
J. Magn. Magn. Mater., 261, L1-L6, (2003)

F. Offi, W. Kuch, L. I. Chelaru, K. Fukumoto, M. Kotsugi, J. Kirschner
Induced Fe and Mn magnetic moments in Co-FeMn bilayers on Cu(001)

Phys. Rev. B, 67 , 094419, (2003)

P.M. Oppeneer, H.-Ch. Mertins, O. Zaharko
Alternative Geometries for the Determination of X-Ray Magneto-Optical Coefficients
J. Phys. Cond. Matter, 15, 7803, (2003)

P.M. Oppeneer, H.-Ch. Mertins, D. Abramssohn, A. Gaupp, W. Gudat, J. Kunes, C.M. Schneider
Buried Antiferromagnetic Films Investigated by X-Ray Magneto-Optical Reflection Spectroscopy
Phys. Rev. B, 67 , 52401, (2003)

A.A. Owens, M. Bavdaz, G. Brammertz, V. Gostilo, H. Graafsma, A. Kozerezov, M. Krumrey, I. Lisjutin, A. Peacock, A. Puig, H. Sipila, S. Zatoloka
The X-ray response on TIBr
Nucl. Instr. and Meth. A, 497 , 370-380, (2003)

T. Panzner, Leitenberger, W., Grenzer, J. and Pietsch, U.
Coherence experiments at the energy-dispersive reflectometry beamline at BESSY II
J. Phys. D Appl. Phys., 36, A93 - A97, (2003)

A. Parge
Magnetische Eigenschaften von GdN-Einfach- und GdN/Fe-Vielfachschichten , Diploma
Universität Göttingen, (2003)

G. Pepponi, B. Beckhoff, T. Ehmann, G. Ulm, C. Strelt, L. Fabry, S. Pahlke and P. Wobrauschek
Analysis of organic contaminants on Si wafers with TXRF-NEXAFS
Spectrochimica Acta Part B: Atomic Spectroscopy, 58, 2245-2253, (2003)

A. Pietzsch
Electronic Structure and Dynamics: Core Hole Spectroscopy on semiconductor Surfaces , Diploma
Universität Hamburg, (2003)

F. Pinakidou, M. Katsikini, E. C. Paloura
XAFS characterization of buried SixNyOz samples
Nuclear Instruments and methods B, 200, 66, (2003)

N. Pontius, M. Neeb, W. Eberhardt, G. Lüttgens, and P.S. Bechthold
Ultrafast relaxation dynamics of optically excited electrons in Ni3
Phys. Rev. B, 67 , 35425, (2003)

D. Pop
Photoelectron Spectroscopy on Thin Films on Cu-, Zn-, and Metal-Free Extended Porphyrazines , Dissertation
FU Berlin, (2003)

D. Pop, B. Winter, W. Freyer, I. V. Hertel, and W. Widdra
Electronic structure of metal-free porphyrazines in thin films
J. Phys. Chem, 107 , 11643, (2003)

I. Powis, E.E. Rennie, U. Hergenbahn, O. Kugeler, R. Bussy-Socrate
Investigation of the Gas-Phase Amino Acid Alanine by Synchrotron Radiation Photoelectron Spectroscopy
Journal of Physical Chemistry A, 107 , 25-34, (2003)

- P. K. Pranzas, R. Willumeit, R. Gehrke, J. Thieme, A. Knöchel
Characterization of structure and aggregation processes of aquatic humic substances using small-angle scattering and X-ray microscopy
Anal. Bioanal. Chem., 376, 618-625, (2003)
- J.E. Prieto, F. Heigl, O. Krupin, G. Kaindl, K. Starke
Magneto-optics of Gd and Tb in the soft x-ray resonance regions
Physical Review B, 68, 134453, (2003)
- M. Probst
Photoelektronenspektroskopische Untersuchungen zu reaktiven Übergangsmetalloberflächen auf MoO₃- und Si-Substraten, Dissertation
Universität Erlangen-Nürnberg, (2003)
- G. Prümper, S. Kröger, R. Müller, M. Martins, J. Viefhaus, P. Zimmermann, and U. Becker
Magnetic circular dichroism in the ion yield of polarized chromium atoms at the 2p edge
Phys. Rev. A, 68, 32710, (2003)
- T. Rabe, R. Rudert, J. Goebbels, K-W. Harbich
Nondestructive Evaluation of Green Components
American Ceramic Society Bulletin, 82, 3, 28-32, (2003)
- K. Rahne
Surface modification and Interface characterisation of chalcopyrite solar cells with a ZnSe buffer layer using X-ray emission and photoelectron spectroscopies, Diploma
Freie Universität Berlin, (2003)
- A. Montaigne Ramil
In-situ monitoring and growth of III-nitrides
Universität Linz, (2003)
- S. Rehbein
Nanofabrication of diffractive optics for soft X-ray and atom beam focusing
J. Phys. IV, 104, 207-210, (2003)
- J. Reichardt
X-Ray emission and photoelectron spectroscopy of chalcopyrite thin film solar cells Humboldt-Universität Berlin, Diploma
Humboldt-Universität Berlin, (2003)
- I. Reiche, M. Radtke, C. Brouder
Röntgenanalyse in der Kunst Antike Gläser und versteinertes Elfenbein
Physik in unserer Zeit, 34(2), 80-86, (2003)
- H.-S. Rhie, H. A. Dürr, and W. Eberhardt
Femtosecond Electron and Spin Dynamics in Ni/W(110) Films
Phys. Rev. Lett., 90, 247201, (2003)
- M. Richter, G. Ulm, C. Gerth, K. Tiedtke, J. Feldhaus, A.A. Sorokin, L.A. Shgmaenok, S.V. Bobashev
Photoionization cross sections of Kr and Xe from threshold up to 1000 eV
AIP Conf. Proc., 652, 165-171, (2003)

M. Richter, A., Gottwald, U. Kroth, A.A. Sorokin, s.V. Bobashev, I.A. Shmaenok, J. Feldhaus, Ch. Gerth, B. Steeg, K. Tiedtke, R. Treusch

Measurement of gigawatt radiation pulses from a vacuum and extreme ultraviolet free-electron laser
Appl. Phys. Lett., 83, 2970-2972, (2003)

T. Richter, B. Obst, M. Martins, P. Zimmermann

The decay of the 2p resonances of atomic Scandium studied by photoelectron spectroscopy
J. Phys. B, 36, 155, (2003)

M. Richter, J. Hollandt, U. Kroth, W. Paustian, H. Rabus, R. Thornagel and G. Ulm

Source and detector calibration in the UV and VUV at BESSY II
Metrologia, 40, 107-110, (2003)

R. Romberg, B. Kassühlke, P. Wiethoff, D. Menzel, P. Feulner

Condensation effects in K-shell excitation and de-excitation of solid neon
Chemical Physics, 289, 69-79, (2003)

K. Rotkiewicz, W. Rettig, N. Detzer, A. Rothe

Substituent-Induced Coupling of the Two Lowest Excited Singlet States of 2-Methoxy- Derivatives
Phys. Chem. Chem. Phys., 5, 998-1002, (2003)

S. Rudolph, S. Heim, D. Rudolph, G. Schmahl

Fast control unit for electron beam lithography systems especially for X-ray and EUV optics
J. Phys. IV, 104, 203-205, (2003)

E. Rühl

Core Level Excitation of Clusters

in: "Progress in Experimental and Theoretical Studies of Clusters", Eds.: T. Kondow, F. Mafune, World Scientific, Singapore, Advanced Series in Physical Chemistry, Vol. 13,, 189-237, (2003)

E. Rühl

Core level excitation, ionization, relaxation, and fragmentation of free clusters
Int. J. Mass Spec., 229, 117, (2003)

D. I. Sayago, J. T. Hoeft, M. Polcik, M. Kittel, R. L. Toomes, J. Robinson, D. P. Woodruff, M. Pascal, C. L. A. Lamont, and G. Nisbet

Bond Lengths and Bond Strengths in Weak and Strong Chemisorption: N₂, CO, and CO/H on Nickel Surfaces
Phys. Rev. Lett., 90, 116104, (2003)

D.I. Sayago, M.Kittel, J.T.Hoeft, M.Polcik, M.Pascal, C.L.A.Lamont, R.L.Toomes, J.Robinson and D.P.Woodruff

The structure of the Ni(100)c(2x2)-N₂ surface: a chemical-state-specific scanned-energy mode photoelectron diffraction determination
Surface Science, 538, 59-75, (2003)

J. Schaefer, S.C. Erwin, M. Hansmann, Z. Song, E. Rotenberg, S.D. Kevan, C.S. Hellberg, und K. Horn

Random Registry shifts in Quasi-one-dimensional Adsorbate Systems
Phys. Rev. B, 67, 85411, (2003)

A. Scherz, P. Pouloupoulos, R. Nünthel, J. Lindner, H. Wende, F. Wilhelm, and K. Baberschke

Direct probe of interdiffusion effects on the induced V spin-polarization at Fe/V interfaces
Phys. Rev. B, 68, 140401(R), (2003)

H.-U. Scheunemann, B. Löchel, L. K. Jian, D. Schöndelmaier
Cost Effective Masks for Deep X-ray Lithography
SPIE Microtechnologies for the New Millennium, 5116, 775-781, (2003)

R.H. Schill, D. Hasselkamp, S. Kammer, S. Mickat, B. Zimmermann, K.-H. Schartner, A. Ehresmann, H. Schmoranzler, B. M. Lagutin, V. L. Sukhorukov
Partial wave analysis of the photon induced Kr 3d95/2 -> Kr+ 4p4(1D)5p2F7/2 decay by orientation and alignment transfer
J. Phys. B: At.Mol.Opt.Phys., 36, L57-61, (2003)

G. Schmahl, D. Rudolph, B. Niemann, P. Guttmann, J. Thieme, U. Wiesemann, G. Schneider, T. Eimüller, P. Fischer, G. Schütz
X-ray microscopy at BESSY
Synchrotron Radiation News, 16/3, 3-10, (2003)

D. Schmeißer, K. Pressel, Y. Yamamoto, B. Tillack, D. Krüger
Ge instabilities near interfaces in Si-SiGe-Si heterostructures
Materials Science & Engineering B, B101, 208, (2003)

D. Schmeißer, H.-J. Müssig
The Pr2O3 / Si(001) interface studied by synchrotron radiation photo-electron spectroscopy
Solid State Electronics, 47, 1607, (2003)

E. Schmid, M. Krumrey, G. Ulm, H. Roos, D. Regulla
The maximum low-dose RBE of 17.4 and 40 keV monochromatic x rays for the induction of dicentric chromosomes in human peripheral lymphocytes
Radiat. Res., 160, 499-504, (2003)

D. Schmitz, J. Hauschild, P. Imperia, Y.T. Liu, H. Maletta
Element-specific investigation of the magnetization of ultrathin Fe on a V(110) single crystal
Journal of Magnetism and Magnetic Materials, 269/1, 89-94, (2003)

G. Schneider, M.-A. Meyer, E. Zschech, G. Denbeaux, U. Neuhäusler, P. Guttmann
In situ X-ray microscopy studies of electromigration in copper interconnects
D.G. Seiler et al. (Eds.): Characterization and Metrology for ULSI Technology: 2003 International Conference, CP683, 480-484, (2003)

G. Schneider, E. Anderson, B. Bates, F. Salmassi, P. Nachimuthu, A. Pearson, D. Hambach, N. Hoffmann, W. Hasse, K. Hoffmann
Electromigration in Integrated Circuit Interconnects studied by X-ray Microscopy
Nucl. Instr. Meth. B, 199, 469 - 474, (2003)

G. Schneider
X-ray microscopy: methods and perspectives
Anal. Bioanal. Chem., 376, 558 - 561, (2003)

F. Scholze, R. Klein, and T. Bock
Irradiation stability of silicon photodiodes for extreme-ultraviolet radiation

Appl. Opt., 42, 5621-5626, (2003)

F. Scholze, J. Tümmeler, E. Gullikson, A. Aquila
Comparison of extreme ultraviolet reflectance measurements
J. Microlith., Microfab., Microsyst., 2, 233-235, (2003)

F. Scholze, J. Tümmeler and G. Ulm
High-accuracy radiometry in the EUV range at the PTB soft x-ray beamline
Metrologia, 40, 224-228, (2003)

F. Scholze, F. Scholz, J. Tümmeler, G. Ulm, H. Legall, P.V. Nickles, W. Sandner, H. Stiel, L. van Loyen
Characterization of a laser produced plasma source for a laboratory EUV reflectometer
Proc. SPIE, 5037, 670-681, (2003)

S. Schrader
Elektronische Struktur und Anregungsprozesse organischer Halbleiter, Habilitation
Uni Potsdam, (2003)

B. Schreder, C. Dem, M. Schmitt, A. Materny, W. Kiefer, U. Winkler, and E. Umbach
Raman Spectroscopy of II-VI Semiconductor Nanostructures: CdS Quantum Dots
J. Raman Spectrosc, 34, 100-103, (2003)

H. Schröter
Optische Eigenschaften von YHx zwischen 1 eV und 10 eV, Diploma
TU Braunschweig, (2003)

J. Schulz, Ph. Wernet, M. Martins, B. Sonntag, R. Müller, K. Godehusen, P. Zimmermann
Linear dichroism of the 4f photoemission in the giant resonance of atomic Europium
Phys. Rev. A, 67, 12502, (2003)

M. Schürmann, S. Dreiner, U. Berges, and C. Westphal
Sb/Si(110)-2x3 - A photoelectron diffraction study
Appl. Surf. Sci., 212, 131, (2003)

M.C. Schürmann, T. Missalla, K.R. Mann, S. Kranzusch, R.M. Klein, F. Scholze, G. Ulm, R. Lebert, L. Juschkin
Metrology tools for EUVL-source characterization and optimization
Proc. SPIE, 5037, 378-388, (2003)

F. Schäfers, S. Yulin, T. Feigl, N. Kaiser
At-wavelength Metrology on Sc-based Multilayers for the VUV and Water Window
Advanced Metrology: Advanced Characterization, Techniques for Optics, Semiconductors, and Nanotechnologies, SPIE-
Proc., 5188, 17, (2003)

A. Schöll, Y. Zou, T. Schmidt, R. Fink, and E. Umbach
Energy Calibration and Intensity Normalization in High-Resolution NEXAFS Spectroscopy
J. Electron Spectrosc, 129, 1, (2003)

A. Schöll
High-resolution investigation of the electronic structure of organic thin films, Dissertation

Universität Würzburg, (2003)

H. Schöppe

Untersuchung der Temperaturabhängigkeit optischer Eigenschaften von CaF₂ im Spektralbereich von Vakuum-UV-Strahlung, Diploma

TFH Wildau, (2003)

M. Sczapan, W. Rettig and A.I. Tolmachev

Spectral and Photophysical Characteristics of Unsymmetric Polymethine Dyes as Model Compounds for the Colour Shift of Visual Pigments

Photochem. Photobiol Sciences, 2, 1264-1271, (2003)

S. Shaikhutdinov, M. Heemeier, J. Hoffmann, I. Meusel, B. Richter, M. Bäumer, H. Kuhlenbeck, J. Libuda, H.-J. Freund, R. Oldman, S. D. Jackson, C. Konvicka, M. Schmid, P. Varga

Interaction of oxygen with Pd deposited on a thin alumina film

Surf. Sci., 501, 270, (2002)

A. Shaporenko, K. Adlkofer, L. S. O. Johansson, M. Tanaka, M. Zharnikov

Functionalization of GaAs surfaces with aromatic self-assembled monolayers: a synchrotron-based spectroscopic study

Langmuir, 19, 4992-4998, (2003)

A. M. Shikin, S. A. Gorovikov, V. K. Adamchuk, W. Gudat, O. Rader

Electronic structure of carbon nanostripes

Phys. Rev. Lett., 90, 256803, (2003)

N. Sieber, Th. Seyller, L. Ley, D. James, J.D. Riley, et al.

Synchrotron x-ray photoelectron spectroscopy study of hydrogen-terminated 6H-SiC{0001} surfaces

Phys Rev B, 67, 205304, (2003)

R. Stoian

The Thermal Stability of WO₃ Thin Films, Diploma

BTU Cottbus, (2003)

C. Strelt, G. Pepponi, P. Wobrauschek, B. Beckhoff, G. Ulm, S. Pahlke, L. Fabry, Th. Ehmann, B. Kanngießner, W. Malzer and W. Jark

Analysis of low Z elements on Si wafer surfaces with undulator radiation induced total reflection X-ray fluorescence at the PTB beamline at BESSY II

Spectrochimica Acta Part B: Atomic Spectroscopy, 58, 2113-2121, (2003)

D.S. Su, H.W. Zandbergen, P.C. Tiemeijer, G. Kothleitner, M. Hävecker, C. Hebert, A. Knop-Gericke, B. H. Freitag, F. Hofer, R. Schlögl

High Resolution EELS Using Monochromator and High Performance Spectrometer: Comparison of V₂O₅ ELNES with NEXAFS and Band Structure Calculations

Micron, 34, 235-238, (2003)

B. Tepper, B. Richter, A.-C. Dupuis, H. Kuhlenbeck, C. Hucho, P. Schilbe, M. A. bin Yarmo, H.-J. Freund

Adsorption of molecular and atomic hydrogen on vacuum cleaved V₂O₅(001)

Surf. Sci., 496, 64, (2002)

W. Theis, E. Rotenberg, K. Franke, K. Horn

Electronic structure in quasicrystals and approximants

"Quasicrystals, Structure and Physical Properties", ed. H.-R. Trebin, Wiley-VCH, 615, (2003)

J. Thieme, G. Schneider, C. Knöchel

X-ray tomography of a microhabitat of bacteria and other soil colloids with sub-100 nm resolution
Micron, 34, 339 - 344, (2003)

J. Thompson, R.I.R. Blyth, V. Arima, Y. Zou, R. Fink, E. Umbach, G. Gigli, and R. Cingolani
4f Energies in an Organic-Rare Earth Guest-Host System: The Rare Earth Tris-8-hydroxyquinolines
Mat. Sci. Eng. B, 40, 105, (2003)

R. L. Toomes, J. -H. Kang, D. P. Woodruff, M. Polcik, M. Kittel and J. T. Hoeft,
Can glycine form homochiral structural domains on low-index copper surfaces?
Surface Science, 522, L9-L14, (2003)

J. Tümmler, H. Blume, G. Brandt, J. Eden, B. Meyer, H. Scherr, F. Scholz, F. Scholze, G. Ulm
Characterization of the PTB EUV reflectometry facility for large EUVL optical components
Proc. SPIE, 5037, 265-273, (2003)

G. Tzvetkov, Y. Zubavichus, G. Koller, Th. Schmidt, C. Heske, E., Umbach, M.Grunze, M. G. Ramsey and F. P. Netzer
Growth of H₂O Layers on an Ultra-Thin Al₂O₃ Film: from Monomeric Species to Ice
Surf. Sci., 543, 131-140, (2003)

G. Ulm

Radiometry with synchrotron radiation
Metrologia, 40, 101-106, (2003)

L. van Loyen, T. Böttger, S. Braun, H. Mai, A. Leson, F. Scholze, J. Tümmler, G. Ulm, H. Legall, P.V. Nickles, W. Sandner, H. Stiel, C. Rempel, M. Schulze, J. Brutscher, F. Macco, S. Müllender
A new laboratory EUV reflectometer for large optics using a laser plasma source
Proc. SPIE, 5038, 12, (2003)

J. Vogel, W. Kuch, M. Bonfim, J. Camarero, Y. Penneç, F. Offi, K. Fukumoto, J. Kirschner, A. Fontaine, S. Pizzini,
Time-resolved magnetic domain imaging by x-ray photoemission electron microscopy
Appl. Phys. Lett., 82, 2299-2301, (2003)

O. Vormoor

Techniques for characterization of fractal clusters using X-ray microscopy
J. Phys. IV, 104, 513-516, (2003)

R.L. Weber

Photoelectron Spectroscopy of Liquid Water and Aqueous Solutions in Free Microjets Using Synchrotron Radiation,
Dissertation
FU Berlin, (2003)

L. Weinhardt, Th. Gleim, O. Fuchs, C. Heske, E. Umbach, M. Bär, H.-J. Muffler, Ch.-H. Fischer, M.C. Lux-Steiner, Y. Zubavichus, T.P. Niesen, and F. Karg
CdS- and Cd(OH)₂-formation during Cd-treatments of Cu(In,Ga)(S,Se)₂ thin film solar cell absorbers
Appl. Phys. Lett., 82, 571, (2003)

H. Wende, A. Scherz, F. Wilhelm and K. Baberschke

Induced magnetism at thin-film interfaces probed by x-ray magnetic circular dichroism

J. Phys.: Condens. Matter, 15, 547, (2003)

H. Wende, Ch. Litwinski, A. Scherz, T. Gleitsmann, Z. Li, C. Sorg, K. Baberschke, A. Ankudinov, J.J. Rehr and Ch. Jung

A systematic study of embedded atom EXAFS: The (2x1)O/Cu(110) reconstruction as an ideal prototype system

J. Phys.: Condens. Matter, 15, 5197, (2003)

L. Werner

Untersuchungen der Autoionisation und Dissoziation der $O_{2}(c^{4}\sigma_{u}^{-})$ ns/nd $\sigma_{g}(\nu = 0,1)$ -Rydbergzustände nach Anregung mit monochromatisierter Synchrotronstrahlung, Diploma

Universität Kaiserslautern, (2003)

C. Westphal

Buried Interfaces Studied by photoelectron diffraction

Appl. Phys. A, 76, 721, (2003)

C. Westphal

The Study of the Local Atomic Structure at and below Surfaces by Means of X-ray Photoelectron Diffraction

Surf. Sci. Rep., 50, 1, (2003)

W. Widdra, D. Bröcker, T. Gießel, I.V. Hertel, W. Krüger, A. Liero, F. Noack, V. Petrov, D. Pop, P.M. Schmidt, R. Weber, I.

Will, B. Winter

Time-resolved core level photoemission:surface photovoltage dynamics of the SiO₂/Si(100)interface

Surface Science, 548, 87-94, (2003)

U. Wiesemann, J. Thieme, P. Guttman, R. Früke, S. Rehbein, B. Niemann, D. Rudolph, G. Schmahl

First results of the new scanning transmission X-ray microscope at BESSY II

J. Phys. IV, 104, 95-98, (2003)

U. Wiesemann

The scanning transmission X-ray microscope at BESSY II, Dissertation

Universität Göttingen, (2003)

P. Wiethoff, B. Kassühlke, D. Menzel, P. Feulner

Biexcitons in solid neon

Fizika Nizkikh Temperatur, 29, 351-355, (2003)

T. Wolff

Untersuchungen von Photoionisationsprozessen an atomarem Eisen und molekularem Eisenchlorid im Bereich der 2p-Anregung mittels Synchrotronstrahlung, Diploma

TU Berlin, (2003)

Q. Wu

Interkalationsreaktionen von Oxiden, Dissertation

Technische Universität Darmstadt, (2003)

S. Yulin, F. Schäfers, T. Feigl, N. Kaiser

Enhanced reflectivity and stability of Sc/Si multilayers

Advances in Mirror Technology for X-Ray, EUVL, Laser and Other Applications, SPIE-Proc., 5193, 20, (2003)

S. Yulin, F. Schäfers, T. Feigl, N. Kaiser
High performance Cr/Sc multilayers for the soft X-ray range
Advances in Mirror Technology for X-Ray, EUVL, Laser and Other Applications, SPIE-Proc., 5193, 23, (2003)

D.R.T Zahn, T.U. Kampen, H. Mendez
Transport Gap of Organic Semiconductor in Organic Modified Schottky Contacts
Appl. Surf. Sci., 212-213, 423, (2003)

M. Zharnikov, A. Küller, A. Shaporenko, E. Schmidt, and W. Eck
Aromatic self-assembled monolayers on hydrogenated silicon
Langmuir, 19, 4682-4687, (2003)

J.F. Zhu, M. Kinne, T. Fuhrmann, B. Tränkenschuh, R. Denecke, H.-P. Steinrück
The adsorption of NO on an oxygen pre-covered Pt(111) surface: in-situ high-resolution XPS combined with molecular beam studies
Surface Science, 547, 410-420, (2003)

J.F. Zhu, M. Kinne, T. Fuhrmann, R. Denecke, H.-P. Steinrück
In-situ high resolution XPS studies on adsorption of NO on Pt(111) surfaces
Surface Science, 529, 384, (2003)

B. Zimmermann
Dynamische Prozesse bei der Photoneninduzierten Ne⁺-Satellitenproduktion: Direkte Besetzung und Autoionisation doppelt angeregter Zustände, Dissertation
Uni Giessen, (2003)

Y. Zou
Electronic properties of organic molecular thin films in condensed and interfacial states with metal substrates,
Dissertation
Universität Würzburg, (2003)

Y. Zubavichus, M. Zharnikov, A. Shaporenko, M. Grunze
NEXAFS study of glycine and glycine-based oligopeptides
J. Electron Spectrosc. Relat. Phenom., 134, 25-33, (2003)