

**1985**

H. Dürr and A. Inomata, *Path integral quantization of the dyonium*, J. Math. Phys. **26**, 2231 (1985).

**1986**

Th. Fauster, H. Dürr and D. Hartwig, *Determination of the geometry of sulphur on nickel surfaces by low-energy ion scattering*, Surf. Sci. **178**, 657 (1986).

**1987**

Th. Fauster, R. Schneider, H. Dürr, G. Engelmann and E. Taglauer, *Thermally induced disorder on a Cu(110) surface studied by low-energy ion scattering and inverse photoemission*, Surf. Sci. **189/190**, 610 (1987).

**1988**

Th. Fauster, D. Hartwig and H. Dürr, *The determination of shadowing critical angles in impact collision ion scattering spectroscopy*, Appl. Phys. A **45**, 63 (1988).

**1989**

Th. Fauster, R. Schneider and H. Dürr, *Angular distribution of the inverse photoemission from Cu(100)*, Phys. Rev. B **40**, 7981 (1989).

**1990**

H. Dürr, Th. Fauster, and R. Schneider, *A compact three-axis cryogenic ultrahigh vacuum manipulator*, J. Vac. Sci. Technol. A **8**, 145 (1990).

R. Schneider, H. Dürr, Th. Fauster and V. Dose, *A simple method for the determination of the angle of incidence for low-energy electrons*, J. Vac. Sci. Technol. A **8**, 3363 (1990).

R. Schneider, H. Dürr, Th. Fauster and V. Dose, *Temperature dependence of the inverse photoemission from copper surfaces*, Phys. Rev. B **42**, 1638 (1990).

H. Dürr, R. Schneider and Th. Fauster, *Thermal vibrations at copper surfaces studied by low-energy ion scattering spectroscopy*, Vacuum **41**, 376 (1990).

R. Schneider, H. Dürr, Th. Fauster and V. Dose, *The temperature dependence of the inverse photoemission from copper surfaces*. Vacuum **41**, 528 (1990).

### 1991

H. Dürr, R. Schneider, Th. Fauster and V. Dose, *Stabilization of the dynamical behavior of the Cu(110) surface upon oxygen adsorption*, Europhys. Lett. **14**, 61 (1991).

H. Dürr, R. Schneider and Th. Fauster, *The added-row growth of the (2x1)O-Cu(110) reconstruction*, Phys. Rev. B **43**, 1802 (1991).

H. Dürr, Th. Fauster and R. Schneider, *Surface structure determination of the (2x1)O-Cu(110) reconstruction by low-energy ion scattering*, Surf. Sci. **234**, 237 (1991).

### 1992

G.R. Castro, H. Dürr, R. Fischer and Th. Fauster, *Unoccupied electronic bandstructure of NiAl(110)*, Phys. Rev. B **45**, 11989 (1992).

### 1993

M. Grass, J. Braun, G. Borstel, R. Schneider, H. Dürr, Th. Fauster and V. Dose, *Unoccupied surface states and surface barrier in Cu*, J. Phys. C **5**, 599 (1993).

H. Dürr and A.P. Baddorf, *Anharmonicity on the Cu(110)-(2x1)O surface*, J. Electr. Spectr & Rel. Phenom. **64/65**, 691 (1993).

### 1994

H. Dürr and A.P. Baddorf, *Anharmonicity and vibrational relaxation on the Cu(110)-(2x1)O surface*, Surf. Sci. **312**, 369 (1994).

J.-K. Zuo, J.F. Wendelken, H. Dürr, C.-L. Liu, *Growth and coalescence in sub-monolayer epitaxy of Cu/Cu(100) studied with high-resolution low-energy electron diffraction*, Phys. Rev. Lett. **72**, 3064 (1994).

H. Dürr, D. Poker, D.M. Zehner, J.B. Barrett, *Structure determination of the Cu(110)-(2x3) N surface with high-energy ion scattering*, Phys. Rev. B **49**, 16789 (1994).

A.G. Thomas, C.A. Muryn, P.J. Hardman, H.A. Dürr, I.W. Owen, G. Thornton, F.M Quinn, R.A. Rosenberg, P.J. Love and V. Rehn, *Soft x-ray photon stimulated ion desorption from SrTiO<sub>3</sub>(100)-H<sub>2</sub>O*, Surf. Sci. **307-309**, 355 (1994).

### 1995

R. Lindsay, H. Dürr, P.L Wincott, G. Thornton, L. Johansson, I. Colera and B.C. Cowie, *Dangling bond adsorption site for potassium on the Si(100) surface*, Phys. Rev. B **51**, 11140 (1995).

B.T. Thole, H.A. Dürr, G. van der Laan, *Core hole polarization in x-ray absorption studied by magnetic circular dichroism in 2p3p3p resonant photoemission*, Phys. Rev. Lett. **74**, 2371 (1995).

H. Dürr, J.F. Wendelken, J.-K. Zuo, *Island morphology and adatom energy barriers during homoepitaxy on Cu(001)*, Surf. Sci. **328**, L527 (1995)

### 1996

H.A. Dürr, G.Y. Guo, B.T. Thole, G. van der Laan, *Magnetocrystalline anisotropy of ultrathin Fe films on Ni(110)*, J. Phys.: Condens. Matter **8**, L111 (1996).

H.A. Dürr, G. van der Laan, M. Surman, *Long-range ferromagnetic order of Ni-O overlayers studied by quadrupolar resonant photoemission*, J. Phys.: Condens. Matter **8**, L7 (1996).

H.A. Dürr, G. van der Laan, B.T. Thole, *Comment on "Microscopic origin of magnetic anisotropy in Au/Co/Au probed with x-ray magnetic circular dichroism"*, Phys. Rev. Lett. **76**, 3464 (1996).

H.A. Dürr, G. van der Laan, *Magnetic circular dichroism in transversal geometry: Importance of non-collinear moments*, Phys. Rev. B **54**, R760 (1996).

G. van der Laan, H.A. Dürr, M. Surman, *Spin magnetic moments from angle resolved magnetic circular dichroism in resonant photoemission decay*, J. Electr. Spectr. **78**, 213 (1996).

J.B. Hannon, H. Dürr, E.W. Plummer, *Adsorption sites and surface vibrations of the Cu(110)-(2x3)-N Surface*, Phys. Rev. B **54**, 16444 (1996).

## 1997

J. Lee, G. Lauhoff, M. Tselpi, S. Hope, P. Rosenbusch, J.A.C. Bland, H.A. Dürr, G. van der Laan, J.Ph. Schille, J.A.D. Matthew, *Evidence for a strain-induced variation of the magnetic moment in epitaxial Cu/Ni/Cu/Si(100) structures*, Phys. Rev. B **55**, 15103 (1997).

H.A. Dürr, G.Y. Guo, G. van der Laan, J. Lee, G. Lauhoff, J.A.C. Bland, *Element-specific magnetic anisotropy determined by transverse magnetic circular x-ray dichroism*, Science, **277**, 213 (1997).

H.A. Dürr, G. van der Laan, D. Spanke, F.U. Hillebrecht, N.B. Brookes, *Strong spin-dependent electron correlation effects in photoemission from itinerant magnets*, Europhys. Lett. **40**, 171 (1997).

H.A. Dürr, G. van der Laan, D. Spanke, F.U. Hillebrecht, N.B. Brookes, *Electron-correlation induced exchange coupling in Mn ultrathin films*, Phys. Rev. B **56**, 8156 (1997).

H.A. Dürr, G. van der Laan, D. Spanke, F.U. Hillebrecht, N.B. Brookes, J.B. Goedkoop, *Hybridization and magnetism in ultrathin Mn films*, Surf. Sci., **377-379**, 466 (1997).

H.A. Dürr, G. van der Laan, *Magnetic circular dichroism in transversal geometry: a new tool to study the magnetocrystalline anisotropy*, J. Appl. Phys. **81**, 5355 (1997).

D. Knabben, Th. Koop, H.A. Dürr, F.U. Hillebrecht, G. van der Laan, *Cr magnetic moments in Fe - Cr layered structures*, J. Electron Spectrosc. & Rel. Phenomen., **86**, 201 (1997).

## 1998

H.A. Dürr, G. van der Laan, J.Vogel, G. Panaccione, N.B. Brookes, E. Dudzik, R. McGrath, *Enhanced orbital magnetism at the nanostructured Co/Cu(1 1 13) surface*, Phys. Rev. B **58**, R11853 (1998).

H.A. Dürr, G. van der Laan, D. Spanke, F.U. Hillebrecht, N.B. Brookes, *Symmetry forbidden magnetic circular dichroism in Auger emission*, Electron Spectrosc. & Rel. Phenomen., **93**, 233 (1998).

G. van der Laan, H.A. Dürr, *Magnetic anisotropy and exchange biasing in heterojunctions studied by transverse magnetic circular x-ray dichroism*, Physica B **248**, 121 (1998).

P. Kamp, M. Belakhovshy, C. Boeglin, H.A. Dürr, G. van der Laan, P. Schille, A. Rogalev, J. Goulon, V. Gehanno, A. Marty, B. Gilles, *Sensitivity of magnetic x-ray dichroism for chemical order in MBE-grown FePd layers*, Physica B **248**, 127 (1998).

H.A. Dürr, G. van der Laan, J. Vogel, M. Finazzi, J.B. Goedkoop, *Interface orbital moment anisotropy in CoPd multilayers*, IEEE Trans. Magn. **34**, 1201 (1998).

### **1999**

P. Kamp, A. Marty, B. Gilles, R. Hoffmann, S. Marchesini, M. Belakhovsky, C. Boeglin, H. Dürr, S. S. Dhesi and G. van der Laan, *Evolution of spin and orbital magnetic moments anisotropies with chemical order in Fe<sub>0.50</sub>Pd<sub>0.50</sub> alloy films*, J. Magn. & Magn. Mat. **198-199**, 628 (1999).

O. Zeybek, N.P. Tucker, S.D. Barrett, H.A. Dürr, G. van der Laan, *Dichroism in constant final-state photoemission for Gd(0001) 4d-4f giant resonance*, J. Magn. & Magn. Mat. **196-197**, 740 (1999).

O. Zeybek, N.P. Tucker, S.D. Barrett, H.A. Dürr, G. van der Laan, *Magnetic linear dichroism effects in the Gd 5p photoemission peaks*, Appl. Surf. Sci. **142**, 549 (1999).

O. Zeybek, N.P. Tucker, S.D. Barrett, H.A. Dürr, G. van der Laan, *Magnetic linear dichroism in gadolinium 4f satellites*, J. Magn. & Magn. Mat. **198-199**, 650 (1999).

S. S. Dhesi, H. A. Dürr, G. van der Laan, E. Dudzik, and N. B. Brookes, *Electronic and magnetic structure of thin Ni films on Co/Cu(001)*, Phys. Rev. B **60**, 12852 (1999).

S.S. Dhesi, H.A. Dürr, G. van der Laan, *Canted spin structures in Ni films on stepped Cu(001)*, Phys. Rev. B **59**, 8408 (1999).

H.A. Dürr, E. Dudzik, S.S. Dhesi, J.B. Goedkoop, G. van der Laan, M. Belakhovshy, C. Mocuta, A. Marty, Y. Samson, *Chiral magnetic domain structures in ultrathin FePd films*, Science **284**, 2166 (1999).

L. Braicovich, G. van der Laan, G. Ghiringhelli, A. Tagliaferri, M.A. van Veenendaal, N.B. Brookes, M.M. Chervinskii, C. Dallera, H.A. Dürr, *Magnetic circular dichroism in resonant Raman scattering in transverse geometry at the L edge of 3d transition metal systems*, Phys. Rev. Lett., **82**, 1566 (1999).

P. Kamp, A. Marty B. Gilles, R. Hoffmann, S. Marchesini, M. Belakhovsky, C. Boeglin, H.A. Dürr, S.S. Dhesi, G. van der Laan, A. Rogalev, *Correlation of spin and orbital anisotropies with chemical order in Fe<sub>0.5</sub>Pd<sub>0.5</sub> alloy films using magnetic circular x-ray dichroism*, Phys. Rev. B **59**, 1105 (1999).

H.A. Dürr, S.S. Dhesi, E. Dudzik, G. van der Laan, D. Knabben, J.B. Goedkoop, *Magnetic properties of selfassembled Co clusters on Au(111) below the ferromagnetic phase transition*, J. Phys.: Condens. Matter **11**, 8447 (1999).

H.A. Dürr, S.S. Dhesi, E. Dudzik, D. Knabben, G. van der Laan, J.B. Goedkoop, F.U. Hillebrecht, *Spin and orbital magnetization in selfassembled Co clusters on Au(111)*, Phys. Rev. B **59**, R701 (1999).

### **Book and review articles**

1. H.A. Dürr, *Fs-Magnetism*, in 31. Ferienkurs des Instituts für Festkörperforschung 'Femtosekunden und Nano-eV: Dynamik in kondensierter Materie', Schriften des Forschungszentrums Jülich (2000).