

Edited Books:

- B1) ***Proceedings of the 3rd European Conference on Magnetic Sensors and Actuators (EMSA 2000)***
Eds. C.M. Schneider and K.H. Müller
Sensors and Actuators A **91** (Elsevier, Amsterdam, 2001)
- B2) ***Metal-Based Thin Film Systems for Electronics***
edited by K. Wetzig and C.M. Schneider
(Wiley-VCH, Berlin, 2003)
- B3) ***Magnetism goes Nano – 36th Spring School Institute of Solid State Research***
Eds. C.M. Schneider, S. Blügel, and Th. Brückel
Matter and Materials Vol. 26 (ISBN 3-89336-381-5)
(Schriften des Forschungszentrums Jülich, Jülich, 2005)
- B4) ***Metal-Based Thin Film Systems for Electronics***
2. Edition, edited by K. Wetzig and C.M. Schneider
(Wiley-VCH, Berlin, 2006)

Review and Book Articles

- R1) ***Spin-and Angle-Resolved Photoelectron Spectroscopy from Solid Surfaces with Circularly Polarized Light***
C.M. Schneider and J. Kirschner
Crit. Rev. Solid State Mat. Sciences **20** (1995) 179
- R2) ***Magnetism at Surfaces and in Ultrathin Films***
C.M. Schneider and J. Kirschner
in *Handbook of Surfaces Vol. 2*, eds. K. Horn and M. Scheffler, (Elsevier, Amsterdam, 2000)
- R3) ***Magnetic Circular Dichroism in Valence Band Photoemission***
W. Kuch and C.M. Schneider
Rep. Prog. Phys. **64** (2001) 147
- R4) ***Investigating Surface Magnetism by Means of Photoexcitation Electron Emission Microscopy***
C.M. Schneider and G. Schönhense
Rep. Prog. Phys. **65** (2002) R 1785
- R5) ***Complex Thin Film Systems for Magnetoelectronics***
C.M. Schneider
in: *Metal-Based Thin Film Systems*, eds. K. Wetzig and C.M. Schneider (Wiley-VCH, Berlin, 2003)
p. 65
- R6) ***Thermal Stability of Magnetic Multilayers***
C.M. Schneider and J. Thomas
in: *Metal-Based Thin Film Systems*, eds. K. Wetzig and C.M. Schneider (Wiley-VCH, Berlin, 2003)
p. 251
- R7) ***Soft X-Ray Photoemission Electron Microscopy***
C.M. Schneider
in: *Neutron and X-ray Spectroscopy*, edited by F. Hippert, E. Geissler, J.-L.Hodeau, E. Lelièvre-Berna and J.-R. Regnard (Springer, Grenoble, 2006) p. xxx

- R8) ***Time-Resolved Photoemission Electron Microscopy***
G. Schönhense, H.-J. Elmers, S.A. Nepijko, and C. M. Schneider
In: *Advances in Imaging and Electron Physics Vol. 142*, ed. P. Hawkes. (Academic Press, London, 2006) p. 160.
- R9) ***Complex Thin Film Systems for Magnetoelectronics***
C.M. Schneider
in: *Metal-Based Thin Film Systems*, 2. Ed., eds. K. Wetzig and C.M. Schneider (Wiley-VCH, Berlin, 2006) p. 71
- R10) ***Thermal Stability of Magnetic Multilayers***
C.M. Schneider and J. Thomas
in: *Metal-Based Thin Film Systems*, eds. K. Wetzig and C.M. Schneider (Wiley-VCH, Berlin, 2006)
p. 283

Refereed Articles

- J1) ***Spin-Polarized Angle-Resolved Photoemission from the (110) Surface of Platinum***
J. Garbe, D. Venus, S. Suga, C.M. Schneider, and J. Kirschner
Surf. Science **178** (1986) 342
- J2) ***Hybridization of Electronic Energy Bands Along the [110] Axis in Platinum Observed by Spin-Polarized, Momentum-Resolved Photoemission***
D. Venus, J. Garbe, S. Suga, C.M. Schneider, and J. Kirschner
Phys. Rev. B **34** (1986) 8435
- J3) ***Ferromagnetism in Epitaxial Transition Metal Films***
C.M. Schneider, J.J. de Miguel, P. Bressler, J. Garbe, S. Ferrer, R. Miranda, and J. Kirschner
J. de Physique, Colloque C8 (1988) 1657
- J4) ***Symmetry-Dependent Alignment of the Electron-Spin Polarization Vector Due to Electronic Band Hybridization Observed in Photoemission from Ag(100)***
C.M. Schneider, J. Garbe, K. Bethke, and J. Kirschner
Phys. Rev. B **39** (1989) 1031
- J5) ***Characterization of Growth and Magnetic Properties of Ferromagnetic Thin Films of Fcc-Cobalt on Cu(100)***
J.J. de Miguel, A. Cebollada, J.M. Gallego, R. Miranda, S. Ferrer, C.M. Schneider, K. Bethke, P. Bressler, and J. Kirschner
Surf. Science **211/212** (1989) 732
- J6) ***Magnetic Domain Structure in Ultrathin Ferromagnetic Films***
H.P. Oepen, M. Benning, C.M. Schneider, and J. Kirschner
Vacuum **41** (1990) 489
- J7) ***Spin- and Angle-Resolved Photoemission from Single Crystals and Epitaxial Films Using Circularly Polarized Synchrotron Radiation***
C.M. Schneider, J.J. de Miguel, P. Bressler, P. Schuster, R. Miranda, and J. Kirschner
J. Electron Spec. Rel. Phenom. **51** (1990) 263
- J8) ***Magnetic Domain Structure in Ultrathin Cobalt Films***
H.P. Oepen, M. Benning, H. Ibach, C.M. Schneider, and J. Kirschner
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- J9) ***Curie Temperature of Ultrathin Epitaxial Fcc-Co Films on Atomically Flat Cu(100) Substrates***
C.M. Schneider, J.J. de Miguel, P. Bressler, P. Schuster, R. Miranda, and J. Kirschner
Phys. Rev. Lett. **64** (1990) 1059
- J10) ***Epitaxy and Magnetic Properties of Fcc-Cobalt Films on Cu(100)***
C.M. Schneider, J.J. de Miguel, P. Bressler, S. Ferrer, R. Miranda, and J. Kirschner
Vacuum **41** (1990) 503
- J11) ***Magnetic X-Ray Dichroism in Core Level Photoemission from Ferromagnets***
L. Baumgarten, C.M. Schneider, H. Petersen, F. Schäfers, and J. Kirschner
Phys. Rev. Lett. **65** (1990) 492

- J12) ***Spin-Polarized Photoemission from Cu₃Au(100) Using Circularly Polarized Synchrotron Radiation at BESSY***
C.M. Schneider, G.S. Sohal, P. Schuster, and J. Kirschner
Vacuum **41** (1990) 511
- J13) ***Spin-Resolved Electronic Bands of Fct-Cobalt***
C.M. Schneider, P. Schuster, M. Hammond, H. Ebert, J. Noffke, and J. Kirschner
J. Phys.: Condens. Matter **3** (1991) 4349
- J14) ***Influence of the Growth Conditions on the Magnetic Properties: From Monolayers to Superlattices***
J.J. de Miguel, A. Cebollada, J.M. Gallego, R. Miranda, C.M. Schneider, P. Schuster, and J. Kirschner
J. Magn. Magnet. Materials **93** (1991) 1
- J15) ***On the Polarization Dependence of the 2p Core Level Photoemission Spectra of Fe***
H. Ebert, L. Baumgarten, C.M. Schneider, and J. Kirschner
Phys. Rev. B **44** (1991) 4406
- J16) ***Correlation of Crystalline and Electronic Structure in Epitaxial Fcc-Cobalt Monolayers on Cu(100)***
C.M. Schneider, J.J. de Miguel, P. Schuster, R. Miranda, B. Heinrich, and J. Kirschner
in: *Science and Technology of Nanostructured Magnetic Materials*, edited by G.C. Hadjipananyis and G.A. Prinz, (Plenum Press, New York, 1991)
- J17) ***Observation of Magnetic Circular Dichroism in UV Photoemission from Ferromagnetic Fcc-Cobalt Films***
C.M. Schneider, M.S. Hammond, P. Schuster, A. Cebollada, R. Miranda, and J. Kirschner
Phys. Rev. B **44** (1991) 12066
- J18) ***Spin-Polarized Photoemission from Fcc-Cobalt Above the Curie Temperature: Evidence of Short-Range Magnetic Order***
C.M. Schneider, P. Schuster, M.S. Hammond, and J. Kirschner
Europhys. Lett. **16** (1991) 689
- J19) ***Spin-Resolved Electronic Band Structure of Fct-Cobalt(100)***
C.M. Schneider, P. Schuster, M. Hammond, H. Ebert, J. Noffke, and J. Kirschner
J. Appl. Phys. **69** (1991) 5003
- J20) ***Effect of Surface Magnetism on Optical Second Harmonic Generation***
J. Reif, J.C. Zink, C.M. Schneider, and J. Kirschner
Phys. Rev. Lett. **67** (1991) 2878
- J21) ***Experimental Evidence of an Oscillatory Magnetic Coupling Between Co/Cu/Co Epitaxial Layers***
A. Cebollada, R. Miranda, C.M. Schneider, P. Schuster, and J. Kirschner
J. Magn. Magnet. Materials **102** (1991) 25
- J22) ***Strong X-Ray Magnetic Circular Dichroism in a 'Forbidden' Geometry Observed via Photoemission***
C.M. Schneider, D. Venus, and J. Kirschner
Phys. Rev. B **45** (1992) 5041

- J23) ***Photoemission of Co/Cu(100): Non-Relativistic Spin- and Angle-Resolved Normal Emission***
R. Schneeweiß, U. König, J. Redinger, P. Weinberger, C.M. Schneider, and J. Kirschner
Mat. Res. Soc. Symp. Proc. Vol. **253** (1992) 499
- J24) ***Crystalline Effects in X-Ray Magnetic Circular Dichroism in Angle-Resolved Core-Level Photoemission***
D. Venus, L. Baumgarten, C.M. Schneider, C. Boeglin, and J. Kirschner
J. Phys.: Condens. Matter **5** (1993) 1239
- J25) ***Uniaxial Anisotropy in Epitaxial Cobalt Films Grown on Cu(1 1 13)***
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- J26) ***Influence of Growth and Structure on the Magnetism of Epitaxial Cobalt Films on Cu(100)***
C.M. Schneider, A.K. Schmid, H.P. Oepen, and J. Kirschner
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p. 453 (Plenum Press, New York, 1993)
- J27) ***Thickness and Temperature Dependence of Magnetic Anisotropies in Ultrathin Fcc-Co(001) structures***
M. Kowalewski, C.M. Schneider, and B. Heinrich
Phys. Rev. B **47** (1993) 8748
- J28) ***Magnetic Anisotropy in Epitaxial Fcc-Co/Cu(1 1 13)***
H.P. Oepen, C.M. Schneider, D.S. Chuang, C. Ballentine, and R.C. O'Handley
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- J29) ***Crystallography of Epitaxial Centered Tetragonal Co/Cu(100) by Low Energy Electron Diffraction***
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- J30) ***Magnetic Circular Dichroism in Angle-Resolved Photoemission from Ferromagnetic Surfaces in the X-Ray and VUV-Regime***
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- J31) ***Spin-Polarized Photoemission from Metal Surfaces Using Circularly Polarized Light***
C.M. Schneider
in: *Frontiers of High Energy Spin Physics*, ed. T. Nakanishi, N. Horikawa, A. Masaike, and S. Sawada
p. 881 (Universal Academy Press, Inc., Tokyo, 1993)
- J32) ***Magnetic Spectro-Microscopy Using Magneto-Dichroic Effects in Photon-Induced Auger Electron Emission***
C.M. Schneider, K. Meinel, K. Holldack, H.P. Oepen, M. Grunze, and J. Kirschner
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- J33) ***Epitaxial Growth of Cobalt Films on Cu(100): A Crystallographic LEED Determination***
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- J34) ***Studies of Exchange Coupling in Fe(100) Whisker/Cr/Fe Structures Using BLS and RHEED Techniques***
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- J36) ***Magneto-Dichroic Effects in Energy- and Angle-Resolved Photoemission: Contrast Mechanisms for the Elementally Sensitive Imaging of Magnetic Domains***
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- J37) ***Elementspezifische Abbildung magnetischer Mikrostrukturen***
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- J38) ***Angle-Resolved Study of Magnetic Dichroism in Photoemission Using Linearly Polarized Light***
W. Kuch, M.-T. Lin, W. Steinhögl, C.M. Schneider, D. Venus, and J. Kirschner
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- J39) ***Perpendicular Anisotropy and Spin Reorientation in Epitaxial Fe/Cu₃Au(100) Ultrathin Films***
F. Baudelet, M.-T. Lin, W. Kuch, K. Meinel, B. Choi, C.M. Schneider, and J. Kirschner
Phys. Rev. B **51** (1995) 12563
- J40) ***Spin-Resolved Substrate Band Mapping in Fe/Cu(100): Application of the Spin Filter Effect***
W. Kuch, M.-T. Lin, K. Meinel, C.M. Schneider, and J. Kirschner
Phys. Rev. B **51** (1995) 12627
- J41) ***Spin-Dependent Surface Transmission in 3d Metals: Implications for Magnetic Dichroism Measurements of the Valence Bands***
D. Venus, W. Kuch, A. Dittschar, M. Zharnikov, M.-T. Lin, C.M. Schneider, and J. Kirschner
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- J42) ***Element Specific Imaging of Magnetic Domains in Multicomponent Thin Film Systems***
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- J43) ***Comparison of Magnetism and Morphology of Ultrathin Fe Films on Cu(100) and Cu₃Au(100)***
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- J44) ***Epitaxial fcc Fe-Co Alloy Films on Cu(001)***
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- J45) ***Perspectives in Element-Specific Magnetic Domain Imaging***
C.M. Schneider
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- J46) ***Magnetic Dichroism Study of the Relativistic Electronic Structure of Perpendicularly Magnetized Ni/Cu(001)***
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- J47) ***Imaging Magnetic Microstructures with Elemental Selectivity: Application of Magnetic Dichroisms***
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- J48) ***Annealing Effect on Morphology and Magnetism of Ultrathin Films of Fe and Ni on Cu(100)***
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- J49) ***Magnetic Dichroism in Angle-Resolved UV Photoemission from Valence Bands, Using Linearly Polarized Light***
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- J50) ***Role of Interface Alloying in Fe Whisker/Cr/Fe(100) Structures, Angular Resolved Auger Electron and MOKE Studies***
B. Heinrich, J.F. Cochran, D. Venus, K. Totland, C.M. Schneider, and K. Myrtle
J. Magn. Magnet. Materials **156** (1996) 215
- J51) ***Magnetic Circular Dichroism Study of the Valence States of Perpendicularly Magnetized Ni(001) films***
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- J53) ***Magnetic Dichroism in Photoemission as a New Probe of Electronic Correlations***
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J. Camarero, T. Graf, J.J. de Miguel, R. Miranda, W. Kuch, M. Zharnikov, A. Dittschar, C.M. Schneider, and J. Kirschner
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- J56) ***Spin-Resolved Photoemission and Band-Mapping in Epitaxial fcc Fe-Co Alloys on Cu(100)***
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- J57) ***Interplay Between Structure and Magnetism in Fe/Cu(100) Upon Temperature Variation***
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- J58) ***Structural Transformation and Spin Reorientation Transition in Epitaxial Fe/Cu₃Au(100) Ultrathin Films***
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- J59) ***Recent Progress in Photoemission Microscopy with Emphasis on Chemical and Magnetic Sensitivity***
W. Swiech, G. Fecher, Ch. Ziethen, O. Schmidt, G. Schönhense, K. Grzelakowski, C.M. Schneider, R. Frömter, and J. Kirschner
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- J60) ***Direct Evidence for Complete Antiferromagnetic Coupling between Co Films Epitaxially Grown on Cu(111) Using Pb as Surfactant***
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- J61) ***Imaging Magnetic Domains with Sub-Micrometer Resolution***
C.M. Schneider, R. Frömter, Ch. Ziethen, G. Schönhense, and J. Kirschner
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- J63) ***Soft X-Ray Photoemission Electron Microscopy as an Element-Specific Probe of Magnetic Microstructures***
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- J64) ***Hochauflösende Photoemissionsmikroskopie mittels Synchrotronstrahlung***
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- J66) ***Growth, Morphology, and Crystalline Structure of Ultrathin Fe Films on Cu₃Au(100)***
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- J69) ***Preparation of Thin Layers of the Ternary Heavy Fermion System CeNi₂Ge₂***
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- J70) ***Tailoring Epitaxial Growth of Low-Dimensional Magnetic Structures by Using Surfactants***
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- J73) ***Magnetically Resolved and Element Specific Imaging with Photoelectrons Using an Immersion Lens Column***
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- J75) ***Interrelation of Morphology, Structure, and Magnetism in Fe_xCo_{1-x}/Cu(100) Epitaxial Alloy Films***
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- J76) ***Annealing of Ni₈₀Fe₂₀/Cu and Co/Cu Multilayers***
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- J77) ***Parallel Nanolithography in Carbon Layers with Conductive Imprint Stamps***
T. Mühl, J. Kretz, I. Mönch, C.M. Schneider, H. Brückl, and G. Reiss
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- J78) ***Growth and Magnetic Properties of Thin Epitaxial Ni_xPd_{1-x} Alloy Films on Cu₃Au(100)***
M. Seider, U. Muschiol, R. Kaltofen, M.-T. Lin, and C.M. Schneider
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- J81) ***Investigation of Co/Cu/NiFe-Multilayers by X-ray Reflectometry and Diffraction***
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- J84) ***Magnetic Dichroism in Co Films on Cu(100) using Unpolarized Light: A Thickness and Temperature Dependent Study***
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