

## Publications - Steinrück Group - Chair of Physical Chemistry II

### 1998 (14)

G. Held, J. Schuler, W. Sklarek, H.-P. Steinrück

*Determination of adsorption sites of pure and coadsorbed CO on Ni(111) by high resolution X-ray photoelectron spectroscopy*

Surf. Sci. 398 (1998) 154-171.

P. Zebisch, M. Stichler, P. Trischberger, M. Weinelt, H.-P. Steinrück

*Tilted adsorption of benzene on Pt(110)1x2*

Surf. Sci. 396 (1998) 61-77.

M. Th. Litz, F. Fischer, H.-J. Lugauer, M. Keim, U. Zehnder, W. Ossau, Th. Gerhard, R. Gall, A. Waag, G. Landwehr, M. Nagelsträßer, H.-P. Steinrück, Th. Walter, D. Gerthsen

*Be-chalcogenides - heteroepitaxy and interface properties*

Appl. Surf. Sci. 123-124 (1998) 429-434.

M. Nagelsträßer, H. Dröge, F. Fischer, T. Litz, A. Waag, G. Landwehr, H.-P. Steinrück

*Photoelectron spectroscopy of molecular-beam epitaxially grown BeTe/ZnSe and BeTe/GaAs*

J. Cryst. Growth 184-185 (1998) 173-177.

H. Dröge, A. Fleszar, H.-P. Steinrück

*REELS measurements on a CdTe(100) surface*

J. Cryst. Growth 184-185 (1998) 208-212.

G. Held, W. Sklarek, M. Mayan, H.-P. Steinrück

*Characterization of thin copper films on Ni(111) by CO titration*

Surf. Sci. 402-404 (1998) 322-326.

M. Nagelsträßer, H. Dröge, F. Fischer, T. Litz, A. Waag, G. Landwehr, H.-P. Steinrück

*Band discontinuities and local interface composition in BeTe/ZnSe heterostructures*

J. Appl. Phys. 83 (1998) 4253-4257.

S. Gokhale, P. Trischberger, D. Menzel, W. Widdra, H. Dröge, H.-P. Steinrück, U. Birkenheuer, U. Gutdeutsch, N. Rösch

*Electronic structure of benzene adsorbed on single domain Si(001)-(2x1): A combined experimental and theoretical study.*

J. Chem. Phys. 108 (1998) 5554-5564.

M. Nagelsträßer, H. Dröge, H.-P. Steinrück, F. Fischer, T. Litz, A. Waag, G. Landwehr, A. Fleszar, W. Hanke

*Band structure of BeTe: A combined experimental and theoretical study*

Phys. Rev. B 58 (1998) 10394-10400.

Th. Seyller, D. Borgmann, G. Wedler

*Interaction of CO<sub>2</sub> with Cs-promoted Fe(110) as compared to Fe(110)/K+CO<sub>2</sub>*

Surf. Sci. 400 (1998) 63-79.

D. Borgmann, K. Rührnschopf, G. Wedler

*Surface reactivity of iron silicide*

Surf. Rev. Lett. 5 (1998) 261-264.

Th. Seyller, K. Rührnschopf, D. Borgmann, G. Wedler

*CO as adsorbate and reaction product in the systems Fe(110)/Cs+CO and Fe(110)/Cs+CO<sub>2</sub>*

Surf. Rev. Lett. 5 (1998) 569-579.

R. Kleyna, D. Borgmann, G. Wedler  
*Adsorption and reaction of propene on Ni(100)*  
Surf. Sci. 402-404 (1998) 131-134.

R. Kleyna, S. Fickert, D. Borgmann, G. Wedler  
*Interaction of propene with pure and hydrogen-precovered nickel films. Studied by means of isothermal reaction mass spectrometry and thermal desorption spectroscopy*  
Langmuir 14 (1998) 5464-5468.

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*Electronic Properties of a Pseudomorphic Cu-Layer on Ni(111)*  
Appl. Surf. Sci. 142 (1999) 18-22.

W. Sklarek, G. Held, C. Ammon, H.-P. Steinrück  
*The growth of ultrathin Cr films on benzene-covered Ni(111)*  
Appl. Surf. Sci. 142 (1999) 327-331.

S. Kneitz, J. Gemeinhardt, H. Koschel, G. Held, H.-P. Steinrück  
*Energy and temperature dependent sticking coefficients of CO on ultrathin copper layers on Ru(001)*  
Surf. Sci. 433-435 (1999) 27-31.

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Phys. Rev. B 59 (1999) 5544-5550.

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*Benzene adsorption on a pseudomorphic Cu monolayer on Ni(111) - a combined TPD and ARUPS study*  
Surf. Sci. 437 (1999) 125-136.

R. Girwidz, J. Schmidt, H.-P. Steinrück  
*Geometrische Optik am Computer*  
Phys. Unserer Zeit 30 (1999) 216-218.

S. Kneitz, J. Gemeinhardt, H.-P. Steinrück  
*A molecular beam study of the adsorption dynamics of CO on Ru(0001), Cu(111) and a pseudomorphic Cu monolayer on Ru(0001)*  
Surf. Sci. 440 (1999) 307-320.

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Surf. Rev. Lett. 6 (1999) 893-901.

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Surf. Sci. 424 (1999) 278-289.

R. Kleyna, H. Mex, M. Voß, D. Borgmann, L. Viscido, J. M. Heras  
*Modification of MoO<sub>3</sub> surfaces by vapour-deposited cobalt atoms*  
Surf. Sci. 433-435 (1999) 723-727.

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*Temperature dependent reaction of propene on Ni(100) single crystal surfaces*  
Surf. Sci. 433-435 (1999) 205-209.

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*Growth and oxidation of Fe films on polycrystalline Ag catalysts*

Surf. Sci. 433-435 (1999) 559-562.

M. Voß, G. Fröhlich, D. Borgmann, G. Wedler

*Catalytic reactions of mixtures of carbon dioxide, ethene and hydrogen on cobalt surfaces*

J. Catal. 187 (1999) 348-357.

S. Sundin, M. Bässler, R. Denecke, M. Weiss, P. Väterlein, A. Nilsson, S. Svensson

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R. Denecke, P. Väterlein, M. Bässler, N. Wassdahl, S. Butorin, A. Nilsson, J.-E. Rubensson, J. Nordgren, N. Mårtensson, R. Nyholm

*Beamline I511 at MAX II, capabilities and performance*

J. Electron Spectrosc. Relat. Phenom. 101-103 (1999) 971-977.

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*Surface structure of MBE-grown  $\alpha\text{-Fe}_2\text{O}_3(0001)$  by intermediate-energy X-ray photoelectron diffraction*

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*Structure determination for saturated (1x1) oxygen on W(110) from full solid angle photoelectron diffraction with chemical-state resolution*

Surf. Sci. 442 (1999) 27-35.

J. Landskron, W. Moritz, B. Narloch, G. Held, D. Menzel

*Analysis of thermal vibrations by temperature-dependent low energy electron diffraction: comparison of soft modes of pure and O-coadsorbed CO on Ru(0001)*

Surf. Sci. 441 (1999) 91-106.

S. Schinzer, M. Kinne, M. Biehl, W. Kinzel

*The role of step edge diffusion in epitaxial crystal growth*

Surf. Sci. 439 (1999) 191-198.

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*Electronic structure and orientation of benzene adsorbed on a pseudomorphic Cu monolayer on Ru(0001)*

Surf. Sci. 454-456 (2000) 83-87

H. Dröge, M. Nagelstraße, J. Nürnberger, W. Faschinger, A. Fleszar, H.-P. Steinrück

*The electronic band structure of ZnSe(100)*

Surf. Sci. 454-456 (2000) 477-482.

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*Atomphysik am Computer*  
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*The growth of thin Cu layers on Ni(111) studied by CO titration and photoelectron spectroscopy*  
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*Circular Dichroism in Core Photoelectron Emission from (1x1) Oxygen on W(110): Experiment and Multiple-scattering Theory*  
 J. Electron Spectrosc. Relat. Phenom. 106 (2000) 7-28.

R. X. Ynzunza, R. Denecke, F. J. Palomares, J. Morais, E. D. Tober, Z. Wang, F. J. Garcia de Abajo, J. Liesegang, Z. Hussain, M. A. Van Hove, C. S. Fadley  
*Kinetics and atomic structure of O adsorption on W(110) from time- and state-resolved photoelectron spectroscopy and full-solid-angle photoelectron diffraction*  
 Surf. Sci. 459 (2000) 69-92.

J. Morais, G. H. Fecher, R. Denecke, Z. Hussain, C. S. Fadley  
*Magnetic dichroism in core-level photoemission from Gd(0001)*  
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*Crystal-field splitting in coadsorbate systems: c(2x2) CO/K/Ni(100)*  
 Phys. Rev. B 62 (2000) 11192-11196.

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 Surf. Sci. 465 (2000) 339-346.

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W. Braun, G. Held, H.-P. Steinrück, Ch. Stellwag, D. Menzel  
*Coverage-dependent changes in the adsorption geometries of ordered benzene layers on Ru(0001)*  
 Surf. Sci. 475 (2001) 18-36.

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*Reduction of the ZnSe/GaAs(100) Valence Band Offset by a Te Interlayer*  
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J. Electron Spectrosc. Relat. Phenom. 114-116 (2001) 539-544.

J. Pantförder, R. Domnick, Ch. Ammon, G. Held, H.-P. Steinrück  
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Surf. Sci. 482-485 (2001) 1292-1297.

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*The transition from oxygen chemisorption to oxidation of ultra-thin Ni layers on Cu(111)*  
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*Surface structure analysis based on the exclusive use of the specular LEED spot - a theoretical study*  
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J. Electron Spectrosc. Relat. Phenom. 114-116 (2001) 783-788.

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*A temperature programmed x-ray photoelectron spectroscopy study of the decomposition reactions of unsaturated hydrocarbons on Ni(100)*

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*Surf. Sci.* 529 (2003) 384-396.

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*Surf. Sci.* 545 (2003) 47-69.

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 Chem. Phys. Lett. 390 (2004) 208-213.

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G. Held, H.-P. Steinrück  
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*New J. Phys.* 7 (2005) 107 1-19 (Invited Contribution).

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## 2006 (9)

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