

## List of Publications

### Prof. Dr. Hans-Peter Steinrück

Physical Chemistry, University Erlangen-Nürnberg, Germany

### Publications in Peer-Reviewed Journals

- 1) H.-P. Steinrück, A. Winkler, K. D. Rendulic  
*Angle-resolved thermal desorption spectra for CO and H<sub>2</sub> from Ni(111), Ni(110) and polycrystalline nickel*  
J. Phys. C 17 (1984) L311-L316.
- 2) H.-P. Steinrück, A. Winkler, K. D. Rendulic  
*An accurate technique to measure angle-resolved flash desorption spectra*  
Surf. Sci. 152-153 (1985) 323-327.
- 3) H.-P. Steinrück, K. D. Rendulic, A. Winkler  
*The sticking coefficient of H<sub>2</sub> on Ni(111) as a function of particle energy and angle of incidence: A test of detailed balancing*  
Surf. Sci. 154 (1985) 99-108.
- 4) H.-P. Steinrück, M. Luger, A. Winkler, K. D. Rendulic  
*Adsorption probabilities of H<sub>2</sub> and D<sub>2</sub> on various flat and stepped nickel surfaces*  
Phys. Rev. B 32 (1985) 5032-5037.
- 5) H. Karner, M. Luger, H.-P. Steinrück, A. Winkler, K. D. Rendulic  
*Features of hydrogen adsorption on a Ni(997) surface*  
Surf. Sci. Lett. 163 (1985) L641-L644.
- 6) H.-P. Steinrück and K. D. Rendulic  
*A test of capillary array beam sources for very large Knudsen numbers*  
Vacuum 36 (1986) 213-215.
- 7) H.-P. Steinrück, M. P. D'Evelyn, R. J. Madix  
*The role of defects in the dissociative adsorption of CO on Ni(100)*  
Surf. Sci. Lett. 172 (1986) L561-L567.
- 8) H.-P. Steinrück, A. V. Hamza, R. J. Madix  
*A molecular beam investigation on the kinetic energy dependence of the activation of ethane on the reconstructed Ir(110)-(1x2) surface*  
Surf. Sci. Lett. 173 (1986) L571-L575.
- 9) A. V. Hamza, H.-P. Steinrück, R. J. Madix  
*Activation of n-butane with translational energy on Ir(110)-(1x2)*  
J. Chem. Phys. 85 (1986) 7494-7495.
- 10) M. P. D'Evelyn, H.-P. Steinrück, R. J. Madix  
*Precursors and trapping in the molecular chemisorption of CO on Ni(100)*  
Surf. Sci. 180 (1987) 47-76.
- 11) A. V. Hamza, H.-P. Steinrück, R. J. Madix  
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J. Chem. Phys. 86 (1987) 6506-6514.

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- 12) H.-P. Steinrück and R. J. Madix  
*The interaction of CO and Ar molecular beams with Ir(110)*  
Surf. Sci. 185 (1987) 36-52.
  - 13) K. D. Rendulic, A. Winkler, H.-P. Steinrück  
*The role of surface defects in the adsorption and desorption of hydrogen on Ni(111)*  
Surf. Sci. 185 (1987) 469-478.
  - 14) A. V. Hamza, H. P. Steinrück, R. J. Madix  
*The dynamics of alkane activation on Ni(100) and Ir(110)*  
J. Vac. Sci. Technol. A 5 (1987) 520-521.
  - 15) D. Coulman, A. Puschmann, W. Wurth, H.-P. Steinrück, D. Menzel  
*Highly efficient dissociation of condensed and adsorbed water via core-to-bound excitation*  
Chem. Phys. Lett. 148 (1988) 371-376.
  - 16) H.-P. Steinrück, C. Schneider, P. A. Heimann, T. Pache, E. Umbach, D. Menzel  
*Electronic structure and orientation of NO on Ni(111) studied by ARUPS using synchrotron radiation*  
Surf. Sci. 208 (1989) 136-154.
  - 17) P. A. Heimann, P. Jakob, T. Pache, H.-P. Steinrück, D. Menzel  
*Benzene coadsorbed with CO and NO on Ru(001): I. A UPS study with synchrotron radiation*  
Surf. Sci. 210 (1989) 282-300.
  - 18) W. Huber, H.-P. Steinrück, T. Pache, D. Menzel  
*The electronic structure and molecular symmetry of pure benzene and benzene coadsorbed with CO on Ni(111)*  
Surf. Sci. 217 (1989) 103-126.
  - 19) H.-P. Steinrück, W. Huber, T. Pache, D. Menzel  
*The adsorption of benzene mono- and multilayers on Ni(111) studied by TPD and LEED*  
Surf. Sci. 218 (1989) 293-316.
  - 20) T. Pache, H.-P. Steinrück, W. Huber, D. Menzel  
*The adsorption of H<sub>2</sub>O on clean and oxygen precovered Ni(111) studied by ARUPS and TPD*  
Surf. Sci. 224 (1989) 195-214.
  - 21) H.-P. Steinrück, P. Heimann, W. Huber, P. Jakob, T. Pache, D. Menzel  
*Electronic structure, orientation and symmetry of benzene and benzene coadsorbed with CO and NO on Ni(111) and Ru(001)*  
J. Electron Spectrosc. Relat. Phenom. 52 (1990) 91-102.
  - 22) H.-P. Steinrück, T. Pache, W. Huber  
*A low coverage study of NO on Ni(111) by angle resolved Auger electron spectroscopy at resonant excitation*  
Phys. Scr. 41 (1990) 177-180.
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*A comparative study of the electronic structure of CO, CO + K, NO and NO + K on Ni(111) by ARUPS using synchrotron radiation*  
Vacuum 41 (1990) 730-731.
  - 24) D. Coulman, A. Puschmann, U. Höfer, H.-P. Steinrück, W. Wurth, P. Feulner, D. Menzel  
*Excitation, deexcitation, and fragmentation in the core region of condensed and adsorbed water*  
J. Chem. Phys. 93 (1990) 58-75.

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*Electronic structure of cyclohexane on Ni(111)*  
Surf. Sci. 239 (1990) 353-362.
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*Changes in the adsorption and desorption behavior of cyclohexane and benzene on Ni(111) induced by a monoatomic potassium layer*  
Surf. Sci. 244 (1991) 185-196.
- 27) W. Huber, M. Weinelt, P. Zebisch, H.-P. Steinrück  
*Azimuthal reorientation of adsorbed molecules induced by lateral interactions: benzene/Ni(110)*  
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- 28) T. Bornemann, H.-P. Steinrück, W. Huber, K. Eberle, M. Glanz, D. Menzel  
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- 29) J. Eiding, W. Domcke, W. Huber, H.-P. Steinrück  
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- 31) W. Huber, P. Zebisch, T. Bornemann, H.-P. Steinrück  
*Lateral interactions and azimuthal orientation of pure and coadsorbed benzene layers on Ni(111)*  
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- 32) D. Menzel, G. Rocker, H.-P. Steinrück, D. Coulman, P. A. Heimann, W. Huber, P. Zebisch, D. R. Lloyd  
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*Resonant excitation and decay of core holes in condensed layers of furan and pyrrole*  
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*Sulphur dioxide adsorption on the Ni(110) surface*  
Surf. Sci. 295 (1993) 295-305.
- 39) H.-P. Steinrück  
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Vacuum 45 (1994) 715-731.  
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- 40) M. Zharnikov, D. Mehl, M. Weinelt, P. Zebisch, H.-P. Steinrück  
*Photoelectron diffraction and holography of clean and sulphur-covered Ni(110)*  
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- 41) M. Zharnikov, D. Mehl, M. Weinelt, P. Zebisch, H.-P. Steinrück  
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- 43) H.-P. Steinrück  
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- 44) M. Zharnikov, M. Weinelt, P. Zebisch, M. Stichler, H.-P. Steinrück  
*First experimental determination of an adsorption site using multiple wave number photoelectron diffraction patterns*  
Phys. Rev. Lett. 73 (1994) 3548-3551.
- 45) P. Ulbricht, O. D. Häberlen, M. Weinelt, H.-P. Steinrück, N. Rösch  
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Surf. Sci. 326 (1995) 53-58.
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*Argon desorption as a tool to study the growth of molecular layers*  
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- 53) H.-P. Steinrück  
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- 75) H. Dröge, M. Nagelstraßer, J. Nürnberger, W. Faschinger, A. Fleszar, H.-P. Steinrück  
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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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- 416) D. Hemmeter, U. Paap, F. Maier, H.-P. Steinrück  
*Structure and Surface Behavior of Rh Complexes in Ionic Liquids Studied Using Angle-Resolved X-ray Photoelectron Spectroscopy*  
Catalysts 13 (2023) 871 1-18.
- 417) V. Schwaab, F. Hemauer, E. M. Freiburger, N. J. Waleska-Wellenhofer, H.-P. Steinrück, C. Papp  
*Liquid Organic Hydrogen Carriers: Model Catalytic Studies on the Thermal Dehydrogenation of 1-Cyclohexylethanol on Pt(111)*  
J. Phys. Chem. C 127 (2023) 11058-11066.
- 418) Z. Zhai, U. Paap, A. Gezmis, F. Maier, H.-P. Steinrück, T. M. Koller  
*Surface tension and viscosity of binary ionic liquid mixtures from high vacuum up to pressures of 10 MPa*  
J. Mol. Liq. 386 (2023) 122388 1-9.
- 419) R. Adhikari, J. Brox, S. Massicot, M. Ruppel, N. Jux, H. Marbach, H.-P. Steinrück  
*Structure and Conformation of Individual Molecules upon Adsorption of a Mixture of Benzoporphyrins on Ag(111), Cu(111), and Cu(110) Surfaces*  
ChemPhysChem 24 (2023) e202300355 1-14.  
ChemPhysChem 24 (2023) e202300540 1 (FRONT COVER).
- 420) L. Winter, S. Trzeciak, C. C. Fernández, S. Massicot, T. Talwar, F. Maier, D. Zahn, H.-P. Steinrück  
*Tailoring the Selectivity of 1,3-Butadiene versus 1-Butene Adsorption on Pt(111) by Ultrathin Ionic Liquid Films*  
ACS Catal. 13 (2023) 10866-10877.
- 421) F. Hemauer, D. Krappmann, V. Schwaab, Z. Hussain, E. M. Freiburger, N. J. Waleska-Wellenhofer, E. Franz, F. Hampel, O. Brummel, J. Libuda, A. Hirsch, H.-P. Steinrück, C. Papp  
*Surface science and liquid phase investigations of oxanorbornadiene/oxaquadricyclane ester derivatives as molecular solar thermal energy storage systems on Pt(111)*  
J. Chem. Phys. 159 (2023) 074703 1-15.

- 422) S. Massicot, A. Gezmis, T. Talwar, M. Meusel, S. Jaekel, R. Adhikari, L. Winter, C. C. Fernández, A. Bayer, F. Maier, H.-P. Steinrück  
*Adsorption and Thermal Evolution of  $[C_{10}H_8N_2][Tf_2N]$  on Pt(111)*  
Phys. Chem. Chem. Phys. 25 (2023) 27953-27966.
- 423) M. Wang, G. Wang, C. Naisa, Y. Fu, S. M. Gali, S. Paasch, M. Wang, H. Wittkämper, C. Papp, E. Brunner, S. Zhou, D. Beljonne, H.-P. Steinrück, R. Dong, X. Fen  
*Poly(benzimidazobenzophenanthroline)-Ladder-Type Two-Dimensional Conjugated Covalent Organic Framework for Fast Proton Storage*  
Angew. Chem. Int. Ed. 62 (2023) e202310937 1-7.  
*Ein Zweidimensionales Konjugiertes Poly(benzimidazobenzophenanthrolin) Leiter-Covalent Organic Framework für schnelle Protonenspeicherung*  
Angew. Chem. 135 (2023) e202310937 1-7.
- 424) E. M. Freiburger, J. Steffen, N. J. Waleska-Wellenhofer, A. Harrer, F. Hemauer, V. Schwaab, A. Görling, H.-P. Steinrück, C. Papp  
*Bromine adsorption and thermal stability on Rh(111): A combined XPS, LEED and DFT study*  
ChemPhysChem 24 (2023) e202300510 1-8.  
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- 425) E. Bilgilişoy, A. Kamali, T. X. Gentner, G. Ballmann, S. Harder, H.-P. Steinrück, H. Marbach, O. Ingólfsson  
*A combined gas-phase dissociative ionization, dissociative electron attachment and deposition study on the potential FEBID precursor  $[Au(CH_3)_2Cl]_2$*   
Beilstein J. Nanotechnol. 14 (2023) 1178–1199.
- 426) D. Hemmeter, U. Paap, N. Wellenhofer, A. Gezmis, D. Kremitz, P. Wasserscheid, H.-P. Steinrück, F. Maier  
*Understanding the Buoy Effect of Surface-Enriched Pt Complexes in Ionic Liquids: A Combined ARXPS and Pendant Drop Study*  
ChemPhysChem 24 (2023) e202300612 1-11.
- 427) R. Eschenbacher, F. Hemauer, E. Franz, A. Leng, V. Schwaab, N. J. Waleska-Wellenhofer, E. M. Freiburger, L. Fromm, T. Xu, A. Görling, A. Hirsch, H.-P. Steinrück, C. Papp, O. Brummel, J. Libuda  
*Au-Catalyzed Energy Release in a Molecular Solar Thermal (MOST) System: A Combined Liquid-Phase and Surface Science Study*  
ChemPhotoChem 8 (2024) e202300155 1-14.
- 428) E. M. Freiburger, J. Steffen, N. J. Waleska-Wellenhofer, F. Hemauer, V. Schwaab, A. Görling, H.-P. Steinrück, C. Papp  
*Bromination of 2D Materials*  
Nanotechnology 35 (2024) 145703 1-16.
- 429) A. Ceccatto, E. M. Freiburger, N. J. Waleska-Wellenhofer, S. Jaekel, D. J. Mowbray, C. Papp, H.-P. Steinrück, A. de Siervo  
*Engineering large nanoporous networks with size and shape selected by appropriate precursors*  
Carbon 221 (2024) 118945 1-10.
- 430) D. Hemmeter, L. Sanchez Merlinsky, L. M. Baraldo, F. Maier, F. J. Williams, H.-P. Steinrück  
*Exploring the interfacial behavior of ruthenium complexes in ionic liquids: implications for supported ionic liquid phase catalysts*  
Phys. Chem. Chem. Phys. 26 (2024) 7602-7610.
- 431) F. Hemauer, H.-P. Steinrück, C. Papp  
*The Norbornadiene/Quadricyclane Pair as Molecular Solar Thermal Energy Storage System: Surface Science Investigations*  
ChemPhysChem 25 (2024) e202300806 1-22 (Invited Review).

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- 432) M. Moritz, S. Maisel, N. Raman, H. Wittkämper, C. Wichmann, M. Grabau, D. Kahraman, J. Steffen, N. Taccardi, A. Görling, M. Haumann, P. Wasserscheid, H.-P. Steinrück, C. Papp  
*Supported Catalytically Active Liquid Metal Solutions: Liquid Metal Catalysis with Ternary Alloys, Enhancing Activity in Propane Dehydrogenation*  
ACS Catal. 14 (2024) 6440-6450.
- 433) D. Hemmeter, A. Gezmis, D. Kremitzl, P. Wasserscheid, F. Maier, H.-P. Steinrück  
*Tailoring the Surface Enrichment of a Pt Catalyst in Ionic Liquid Solutions by Choice of the Solvent*  
Adv. Mater. Interfaces 11 (2024) 2301085 1-13.
- 434) L. S. Merlinsky, D. Hemmeter, L. M. Baraldo, F. Maier, H.-P. Steinrück, F. J. Williams  
*Unlocking the Fluorine-Free Buoy Effect: Surface-Enriched Ruthenium Polypyridine Complexes in Ionic Liquids*  
ChemistryOpen 13 (2024) e202400092 1-6.  
ChemistryOpen 13 (2024) e202480702 1 (COVER FEATURE).
- 435) E. M. Freiburger, F. Düll, P. Bachmann, J. Steinhauer, F. Williams, H.-P. Steinrück, C. Papp  
*h-BN in the making: The surface chemistry of borazine on Rh(111)*  
J. Chem. Phys. 160 (2024) 154706 1-9.
- 436) H. Bühlmeier, T. Talwar, R. Eschenbacher, J. Baretto, J. Hauner, L. Knörr, H.-P. Steinrück, F. Maier, J. Libuda  
*Surface Chemistry of a  $[C_2C_1Im][OTf]$  (Sub)Wetting Layer on Pt(111): A Combined XPS, IRAS and STM study*  
ACS Appl. Mater. Interfaces 16 (2024) 24063-24074.
- 437) C. Wichmann, M. Moritz, H. Wittkämper, T.-E. Hsieh, J. Frisch, M. Bär, H.-P. Steinrück, C. Papp  
*Poisoning Resistance of Liquid GaPt Supported Catalytically Active Liquid Metal Solutions Model Systems*  
J. Phys. Chem. C 128 (2024) 9024-9033.
- 438) S. K. Antara, D. Hemmeter, Z. Zhai, D. Kremitzl, F. Maier, T. M. Koller, H.-P. Steinrück, M. Haumann  
*Hydrogenation with dissolved Pt-complexes homogenously distributed in the ionic liquid or enriched at the gas/ionic liquid interface*  
ChemCatChem 16 (2024) e202400574 1-11.
- 439) A. Wolfram, M. Muth, J. Köbl, A. Mölkner, S. Mehl, N. Tsud, H.-P. Steinrück, B. Meyer, O. Lytken  
*Phenylphosphonic Acid on Rutile  $TiO_2(110)$ : Using Theoretically Predicted O 1s Spectra to Identify the Adsorption Binding Modes*  
J. Phys. Chem. C 128 (2024) 12735-12753.
- 440) A. Wolfram, M. Muth, F. J. Williams, S. Mehl, N. Tsud, H.-P. Steinrück, O. Lytken  
*Adsorption of Phenylboronic Acid Derivatives on Rutile  $TiO_2(110)$*   
J. Phys. Chem. C 128 (2024) 12450-12470.
- 441) T. Talwar, J. Barreto, C. C. Fernández, H.-P. Steinrück, F. Maier  
*Ultrathin Films of a Nitrile-Functionalized Ionic Liquid  $[C_3CNC_1Im][Tf_2N]$  on Au(111) and Pt(111): Adsorption, Growth, and Thermal Behavior*  
Langmuir 40 (2024) 27565-27578.
- 442) V. Schwaab, F. Hemauer, J. Steffen, N. J. Waleska-Wellenhofer, E. M. Freiburger, M. Steinmetz, A. Görling, P. Wasserscheid, H.-P. Steinrück, C. Papp  
*Model Catalytic Studies on the Thermal Dehydrogenation of the Benzaldehyde/Cyclohexylmethanol LOHC System on Pt(111)*  
Chem. Eur. J. 30 (2024) e202402793 1-10.

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- 443) M. Shaker, M. Muth, J. Steffen, A. Ceccatto dos Santos, S. Jaekel, R. Adhikari, P. Gazetas, C. Oleszak, A. de Siervo, N. Jux, A. Görling, O. Lytken, H.-P. Steinrück  
*Coverage- and temperature-induced self-metalation of tetraphenyltransdibenzoporphyrin on Cu(111)*  
J. Phys. Condens. Matter 37 (2025) 085001 1-20.
- 444) M. Muth, A. Wolfram, H.-P. Steinrück, O. Lytken  
*Coadsorption of ZnTPP and 2HMCTPP on Rutile TiO<sub>2</sub>(110)*  
ChemPhysChem 26 (2025) e202400795 1-7.
- 445) A. Bergen, D. Hemmeter, J. Barreto, F. Maier, A. Scheurer, F. W. Heinemann, H.-P. Steinrück, K. Meyer  
*A Surface-Active Pt(II) Bis-N-Heterocyclic Carbene (NHC) Complex for Interface-Enhanced Supported Ionic Liquid Phase (SILP) Catalysis*  
Chem. Eur. J. 31 (2025) e202402827 1-7.
- 446) J. Barreto, T. Talwar, H.-P. Steinrück, F. Maier  
*Ultrathin [C<sub>1</sub>C<sub>1</sub>Im][Tf<sub>2</sub>N] Layers Supported on Mn<sub>3</sub>O<sub>4</sub>(001) Films*  
Top. Catal. 68 (2025) 2016-2026.
- 447) D. Hemmeter, M. Haumann, F. J. Williams, T. M. Koller, P. Wasserscheid, K. Meyer, F. Maier, H.-P. Steinrück  
*Towards Surface-Enhanced Homogeneous Catalysis: Tailoring the Enrichment of Metal Complexes at Ionic Liquid Surfaces*  
Angew. Chem. Int. Ed. 64 (2025) e202422693 1-26.  
*Auf dem Weg zur oberflächenverstärkten homogenen Katalyse: Maßgeschneiderte Anreicherung von Metallkomplexen an der Oberfläche von ionischen Flüssigkeiten*  
Angew. Chem. 37 (2025) e202422693 1-28.
- 448) A. Ceccatto, G. R. Campi, V. Carreño Diaz, E. B. da Costa Ferreira, N. J. Waleska-Wellenhofer, E. M. Freiburger, S. Jaekel, C. Papp, H.-P. Steinrück, D. J. Mowbray, A. de Siervo  
*Engineering two-dimensional supramolecular self-assembly: The role of Cl atoms*  
FlatChem 50 (2025) 1-7.
- 449) Z. Zhai, J. Barreto, D. Hemmeter, F. Maier, H.-P. Steinrück, T. M. Koller  
*Correlation of Macroscopic Surface Tension and Microscopic Surface Composition of Binary Ionic Liquid Mixtures with Common Cations and Anions of Different Size*  
J. Phys. Chem. B 129 (2025) 2789-2800.
- 450) L. Ulm, C. C. Fernández, L. Winter, F. Maier, H.-P. Steinrück  
*A molecular beam study of olefin adsorption on ultrathin ionic liquid films on Pt(111)*  
J. Chem. Phys. 162 (2025) 124705 1-9.
- 451) V. Schwaab, F. Düll, P. Bachmann, F. Hemauer, H.-P. Steinrück, C. Papp  
*Effect of the Ru concentration on the CO tolerance and the oxidizability of a composition spread PtRu/Pt(111) near-surface alloy*  
Phys. Chem. Chem. Phys. 27 (2025) 10670-10678.
- 452) A. Gezmis, T. Talwar, M. Meusel, A. Bayer, F. Maier, H.-P. Steinrück  
*Flexible 2D structure formation of [C<sub>1</sub>C<sub>1</sub>Im][Tf<sub>2</sub>N] on Ag(111)*  
ChemPhysChem 26 (2025) e202500163 1-10.
- 453) M. Muth, M. Shaker, J. Steffen, A. Wolfram, S. Steinbach, L.-P. Gazetas, N. Jux, A. Görling, H.-P. Steinrück, O. Lytken  
*Coverage- and Temperature-Dependent Rates of Metalation, Ring Fusion, and Polymerization of Benzoporphyrins on Cu(111)*  
Chem. Eur. J. 31 (2025) e202500998 1-13.

- 454) J. Steffen, M. Shaker, M. Muth, S. Steinbach, P. Gazetas, C. Oleszak, N. Jux, A. Görling, H.-P. Steinrück, O. Lytken  
*Using Steric Repulsion to Reduce the Coordination of Metal Centers in Adsorbed Transdibenzoporphyrins*  
J. Phys. Chem. C 129 (2025) 12391-12404.
- 455) A. Ceccatto, L. Sanchez Merlinsky, L. M. Baraldo, F. J. Williams, F. Maier, H.-P. Steinrück  
*Influence of ionic liquid composition on surface enrichment of fluorine-free Ru complexes*  
RSC Adv. 15 (2025) 36137–36144.

## List of Publications

### Prof. Dr. Hans-Peter Steinrück

Physical Chemistry, University Erlangen-Nürnberg, Germany

### Book Chapters & Other Publications (not ISI Web-of-Knowledge listed)

- B1) M. Luger, A. Winkler, K. D. Rendulic, H.-P. Steinrück  
*Temperature dependence of the sticking coefficient for  $H_2$  on various nickel surfaces*  
 Proc. Symposium on Surface Science, 3S'85, Eds. G. Betz, H. Störi, W. Husinsky and P. Varga, (Obertraun 1985) p.107-112.
- B2) H.-P. Steinrück, K. D. Rendulic, A. Winkler  
*An experimental investigation of detailed balancing for the systems  $H_2$ /nickel and CO/nickel*  
 Proc. Symposium on Surface Science, 3S'85, Eds. G. Betz, H. Störi, W. Husinsky and P. Varga, Obertraun 1985, pp.101-106.
- B3) H.-P. Steinrück  
*Das Prinzip der Detaillierten Gleichgewichte im System  $H_2$ /Nickel und CO/Nickel*  
 Mitteilungsblatt der Österreichischen Physikalischen Gesellschaft 4/1986, Dezember 1986.
- B4) H.-P. Steinrück  
*Angle resolved UV-photoelectron spectroscopy of adsorbed molecules*  
 INVITED contribution to Proc. Symposium on Surface Science, 3S'91, Eds. P. Varga, G. Betz, Obertraun 1991, pp. 67-74.
- B5) M. Weinelt, P. Zebisch, W. Huber, M. Pabst, U. Birkenheuer, B. Reichert, N. Rösch, H.-P. Steinrück  
*On the adsorption of ethylene on Ni(110)*  
 Proc. Symposium on Surface Science, 3S'92, Eds. M. Alnot, J. J. Ehrhardt, C. Launois, B. Mutaftschiev, M. R. Tempère, La Plagne/Savoie 1992, pp. 276-279.
- B6) H.-P. Steinrück  
*Angle-resolved UV-photoelectron spectroscopy*  
 "Surface Science Techniques", Eds. J. M. Walls and R. Smith, Pergamon (1994) 67-83.  
 INVITED contribution  
 ISBN: 978-0-08-042148-3
- B7) D. Mehl, M. Zharnikov, P. Zebisch, M. Weinelt, H.-P. Steinrück  
*Photoelectron diffraction and holography of clean metal surfaces*  
 Proc. Symposium on Surface Science, 3S'94, Eds. T. Rosenblatt and B. Mutaftschiev, Les Arcs/Savoie 1994, pp. 60-63.
- B8) R. Girwidz, J. Schmidt, H.-P. Steinrück  
*Geometrische Optik am Computer*  
 Phys. Unserer Zeit 30 (1999) 216-218.  
[DOI: 10.1002/piuz.19990300507](https://doi.org/10.1002/piuz.19990300507)
- B9) R. Girwidz, O. Gößwein, H.-P. Steinrück  
*Atomphysik am Computer*  
 Phys. Unserer Zeit 31 (2000) 165-167.  
[DOI: 10.1002/1521-3943\(200004\)31:4<165::AID-PIUZ165>3.0.CO;2-0](https://doi.org/10.1002/1521-3943(200004)31:4<165::AID-PIUZ165>3.0.CO;2-0)

- B10) J. F. Zhu, M. Kinne, T. Fuhrmann, B. Tränkenschuh, R. Denecke, H.-P. Steinrück  
*Coadsorption of NO and CO on a Pt(111) surface studied by high-resolution synchrotron radiation photoemission*  
 Chapter in: "Surface Science: New Research", Editor: Charles P. Norris, pp. 217-235, 2005 Nova Science Publishers, Inc.  
 ISBN: 978-1-59454-404-0
- B11) G. Held and H.-P. Steinrück  
*Cyclic hydrocarbons*  
 Landolt-Börnstein "Physics of Covered Solid Surfaces - Adsorbed Layers on Surfaces", Editor: H. P. Bonzel, Vol. III/42, Subvolume A4, Chapter 3.8.7. (2005) pp. 300-369.  
 INVITED contribution  
 ISBN: 978-3-540-20281-3  
[DOI: 10.1007/b12050 \(Volume\)](https://doi.org/10.1007/b12050)  
[DOI: 10.1007/10932216\\_11 \(Text\)](https://doi.org/10.1007/10932216_11)  
[DOI: 10.1007/10932216\\_12 \(Tables\)](https://doi.org/10.1007/10932216_12)  
[DOI: 10.1007/10932216\\_13 \(Figures\)](https://doi.org/10.1007/10932216_13)
- B12) W. Zhao, C. Papp, H.-P. Steinrück  
*Heterographenes*  
 Encyclopedia of Polymeric Nanomaterials, Springer (2015) 924-936.  
 ISBN: 978-3-642-36199-9  
[DOI: 10.1007/978-3-642-29648-2\\_340](https://doi.org/10.1007/978-3-642-29648-2_340)
- B13) R. Denecke and H.-P. Steinrück  
*Adsorption of (Small) Molecules on Metals*  
 Chapter 38 in: "Surface and Interface Science", Vol. 5, Editor: K. Wandelt, pp. 391-458, 2016 Wiley-VCH.  
 ISBN: 978-3-527-41158-0
- B14) Hans-Peter Steinrück, Florian Maier, Christian Papp  
*Molecules in Energy Storage and Release – A Surface Science Perspective*  
 Bunsenmagazin 25 (2023) 112-117.

## List of Publications

### Prof. Dr. Hans-Peter Steinrück

Physical Chemistry, University Erlangen-Nürnberg, Germany

### Academic Theses

- T1) H.-P. Steinrück  
Diplomarbeit (Diploma Thesis):  
*Die experimentelle Bestimmung der Winkelverteilung desorbierender Moleküle*  
Technische Universität Graz, 1983.
- T2) H.-P. Steinrück  
Doktorarbeit (PhD Thesis):  
*Das Prinzip der Detaillierten Gleichgewichte im System  $H_2$ /Nickel und CO/Nickel*  
Technische Universität Graz, 1985.
- T3) H.-P. Steinrück  
Habilitationsschrift (Habilitation Thesis):  
*Elektronische Struktur, Symmetrie und laterale Wechselwirkung adsorbierter Moleküle*  
Technische Universität München, 1992.