

## Publikationsliste

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### Publikation in Zeitschriften mit Peer-Review

- 1) H.-P. Steinrück, A. Winkler, K. D. Rendulic  
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- 2) H.-P. Steinrück, A. Winkler, K. D. Rendulic  
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- 3) H.-P. Steinrück, K. D. Rendulic, A. Winkler  
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- 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.
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- 424) E. M. Freiberger, J. Steffen, N. J. Waleska-Wellnhofer, A. Harrer, F. Hemauer, V. Schwaab, A. Görling, H.-P. Steinrück, C. Papp  
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Phys. Chem. Chem. Phys. 27 (2025) 10670-10678.
- 452) A. Gezmis, T. Talwar, M. Meusel, A. Bayer, F. Maier, H.-P. Steinrück  
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- 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 (2025) (accepted).

## Publikationsliste

### Prof. Dr. Hans-Peter Steinrück

Physikalische Chemie, Universität Erlangen-Nürnberg, Deutschland

### Buchkapitel & sonstige Publikationen (nicht ISI Web-of-Knowledge geführt)

- 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 und P. Varga, Obertraun 1985) p.107-112.
- B2) H.-P. Steinrück, K. D. Rendulic, A. Winkler  
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 Proc. Symposium on Surface Science, 3S'85, Eds. G. Betz, H. Störi, W. Husinsky und P. Varga, Obertraun 1985, S.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, S. 67-74.
- B5) M. Weinelt, P. Zebisch, W. Huber, M. Pabst, U. Birkenheuer, B. Reichert, N. Rösch, H.-P. Steinrück  
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 Proc. Symposium on Surface Science, 3S'92, Eds. M. Alnot, J. J. Ehrhardt, C. Launois, B. Mutaftschiev, M. R. Tempère, La Plagne/Savoie 1992, S. 276-279.
- B6) H.-P. Steinrück  
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 "Surface Science Techniques", Eds. J. M. Walls und R. Smith, Pergamon (1994) 67-83.  
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 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*  
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- B8) R. Girwidz, J. Schmidt, H.-P. Steinrück  
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- B9) R. Girwidz, O. Gößwein, H.-P. Steinrück  
*Atomphysik am Computer*  
 Phys. Unserer Zeit 31 (2000) 165-167.  
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- 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*  
Kapitel in: "Surface Science: New Research", Editor: Charles P. Norris, S. 217-235, 2005 Nova Science Publishers, Inc.  
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- B11) G. Held und 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, Kapitel 3.8.7. (2005) S. 300-369.  
INVITED contribution  
ISBN: 978-3-540-20281-3  
[DOI: 10.1007/b12050 \(Volume\)](https://doi.org/10.1007/b12050)  
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[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.  
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[DOI: 10.1007/978-3-642-29648-2\\_340](https://doi.org/10.1007/978-3-642-29648-2_340)
- B13) R. Denecke und H.-P. Steinrück  
*Adsorption of (Small) Molecules on Metals*  
Kapitel 38 in: "Surface and Interface Science", Vol. 5, Editor: K. Wandelt, S. 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.

## **Publikationsliste**

### **Prof. Dr. Hans-Peter Steinrück**

Physikalische Chemie, Universität Erlangen-Nürnberg, Deutschland

### **Akademische Arbeiten**

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<sub>2</sub>/Nickel und CO/Nickel*

Technische Universität Graz, 1985.

T3) H.-P. Steinrück

Habilitationsschrift (Habilitation Thesis):

*Elektronische Struktur, Symmetrie und laterale Wechselwirkung adsorbiert Moleküle*

Technische Universität München, 1992.