

Top publications:

A. Schöll, L. Kilian, Y. Zou, J. Ziroff, S. Hame, F. Reinert, E. Umbach, and R.H. Fink, *Disordering of an Organic Overlayer on a Metal Surface Upon Cooling*. **Science** **329**, 303, (2010).

M. Wiessner, D. Hauschild, C. Sauer, V. Feyer, **A. Schöll**, and F. Reinert, *Complete determination of molecular orbitals by measurement of phase symmetry and electron density* **Nature Communications** **5**, 4156 (2014).

M. Wiessner, J. Ziroff, F. Forster, M. Arita, K. Shimada, P. Puschnig, **A. Schöll**, and F. Reinert, *Substrate-mediated band-dispersion of adsorbate molecular states* **Nature Communications** **4**:1514 (2013).

M. Dauth, M. Graus, I. Schelter, M. Wießner, **A. Schöll**, F. Reinert, and S. Kümmel, *Perpendicular Emission, Dichroism, and Energy Dependence in Angle-Resolved Photoemission: The Importance of The Final State*, **Physical Review Letters** **117**, 183001 (2016).

M. Graus, M. Grimm, C. Metzger, M. Dauth, C. Tusche, J. Kirschner, S. Kümmel, **A. Schöll**, and F. Reinert, *Electron-Vibration Coupling in Molecular Materials: Assignment of Vibronic Modes from Photoelectron Momentum Mapping*, **Physical Review Letters** **116**, 147601 (2016).

M. Scholz, F. Holch, C. Sauer, M. Wiessner, **A. Schöll**, and F. Reinert, *Core hole-electron correlation in coherently coupled molecules* **Physical Review Letters** **111**, 048102 (2013).

M. Dauth, T. Körzdörfer, and S. Kümmel, J. Ziroff, M. Wiessner, **A. Schöll**, and F. Reinert, M. Arita and K. Shimada, *Orbital density reconstruction for molecules*, **Physical Review Letters** **107**(19) (2011).

J. Ziroff, F. Forster, **A. Schöll**, P. Puschnig, and F. Reinert, *Hybridization of Organic Molecular Orbitals with Substrate States at Interfaces: PTCDA on Silver*. **Physical Review Letters** **104**(23), 233004 (2010).

C.H. Schwalb, S. Sachs, M. Marks, **A. Schöll**, F. Reinert, E. Umbach, and U. Höfer, *Ultrashort Lifetime and Dispersion of an Organic-Metal Interface-State*, **Physical Review Letters** **101**, 14 (2008).

L. Kilian, A. Hauschild, R. Temirov, S. Soubatch, **A. Schöll**, A. Bendounan, F. Reinert, T.-L. Lee, F. S. Tautz, M. Sokolowski, and E. Umbach, *A structural and electronic phase transition at a metal-organic interface: The role of intermolecular interactions*, **Physical Review Letters** **100**, 136103 (2008).

A. Schöll, Y. Zou, D. Hübner, D. Gador, L. Kilian, C. Jung, S.G. Urquhart, T. Schmidt, R. Fink, and E. Umbach: *Electron-vibron coupling in high-resolution x-ray absorption spectra of organic materials: NTCDA on Ag(111)*, **Physical Review Letters** **93**, 146406-1 (2004).

Complete list of publications:

- (1) **A. Schöll**, Y. Zou, T. Schmidt, R. Fink, and E. Umbach: *Energy calibration and intensity normalization in high-resolution NEXAFS spectroscopy*. Journal of Electron Spectroscopy and Related Phenomena **129**, 1 (2003).
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- (5) **A. Schöll**, Y. Zou, T. Schmidt, R. Fink, and E. Umbach, *High-resolution photoemission study of different NTCDA monolayers on Ag(111): Bonding and screening influences on the line shapes*, Journal of Physical Chemistry B **108**, 14741 (2004).
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- (10) R. Fink, D. Hübner, **A. Schöll**, E. Umbach, K.C. Prince, R. Richter, M. Coreno, and M. Alagia, *Electron-vibron coupling in large organic molecules*, ELETTRA Highlights **51** (2003).
- (11) Y. Zou, L. Kilian, **A. Schöll**, T. Schmidt, R. Fink, and E. Umbach, *Chemical bonding of PTCDA on Ag-surfaces and the formation of interface states*, Surface Science **600**, 1240 (2006).
- (12) S. Kera, M.B. Casu, **A. Schöll**, Th. Schmidt, D. Batchelor, E. Rühl, and E. Umbach, *High-resolution inner-shell excitation spectroscopy of H-2-phthalocyanine*, Journal of Chemical Physics **125**, 014705 (2006).
- (13) F. Amy, C. Chan, W. Zhao, **A. Schöll**, et al., *Radiation damage to alkyl chain monolayers on semiconductor substrates investigated by electron spectroscopy*, Journal of Physical Chemistry B **110**, 21826 (2006).
- (14) A. Bendounan, F. Forster, **A. Schöll**, D. Batchelor, J. Ziroff, E. Umbach, and F. Reinert, *Electronic structure of 1ML NTCDA/Ag(111) studied by photoemission spectroscopy*, Surface Science **601**, 4013 (2007).
- (15) C. Stadler, S. Hansen, **A. Schöll**, C. Kumpf, and E. Umbach, *Molecular distortion of NTCDA upon adsorption on Ag(111): A normal incidence x-ray standing wave study*, New Journal of Physics **9**, 50 (2007).
- (16) D. Batchelor, T. Schmidt, R. Follath, C. Jung, R. Fink, M. Knupfer, **A. Schöll**, T. Noll, F. Siewert, B. Buchner, and E. Umbach, *An energy-dispersive VUV beamline for NEXAFS and other CFS/CIS studies*, Nuclear Instruments and Methods in Physics Research Section A, **575**, 470 (2007).

- (17) M. Haeming, S. Hame, T. Boecking, O. Seitz, G. Gavrila, D. Batchelor, **A. Schöll**, F. Reinert, and E. Umbach, *Charge transport in plastic electronics*, BESSY Highlights (2007).
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- (20) S. Krause, M.B. Casu, S. Sachs, **A. Schöll**, and E. Umbach, *Determination of the transport levels by UPS and IPES: organic semiconductors*, New Journal of Physics, 085001 (2008).
- (21) C.H. Schwalb, S. Sachs, M. Marks, **A. Schöll**, F. Reinert, E. Umbach, and U. Höfer, *Ultrashort Lifetime and Dispersion of an Organic-Metal Interface-State*, Physical Review Letters, **101**, 14 (2008).
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- (27) M.B. Casu, **A. Schöll**, K.R. Bauchspiess, D. Hubner, T. Schmidt, C. Heske, and E. Umbach, *Nucleation in Organic Thin Film Growth: Perylene on Al₂O₃/Ni₃Al(111)*. Journal of Physical Chemistry C **113**, 25, 10990-10996 (2009).
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- (60) M. Marks, **A. Schöll**, and U. Höfer, “*Formation of Metal-Organic Interface States studied with 2PPE*”,Journal of Electron Spectroscopy and Related Phenomena, **195** 263-271 (2014).
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Book chapters:

S. Sachs, M. Paul, F. Holch, J. Pernepeintner, P. Vrdoljak, M. Casu, **A. Schöll**, and E. Umbach, *Development of Single-Crystal OFETs Prepared on Well-Ordered Sapphire Substrates* in “*Physical and Chemical Aspects of Organic Electronics*”, p. 281-300, Wiley-VCH (2009).

A. Schöll and F. Schreiber, *Thin Films of Organic Molecules: Interfaces and Epitaxial Growth* in “*Molecular Beam Epitaxy: From Quantum Wells to Quantum Dots, From Research to Mass Production*”, p. 591-609, Elsevier Inc. (2013).