List of Publications

Matthias Bode

February 6, 2025

Articles

206. Y. Wang, F. Friedrich, M. Bode, and A. Odobesko: *Observation of zero-energy modes in Gd atomic chains on superconducting Nb(110)*, (in preparation)

205. A. Odobesko, J. Jung, A. Szczerbakow, J. Korczak, T. Story, and M. Bode: *Reversible doping and fine-tuning of the Dirac point position in the topological crystalline insulator $Pb_{1-x}Sn_xSe$ via sputtering and annealing process*, Nanoscale Advances (in press)

204. G. Wagner, T. Neupert, R. Thomale, A. Szczerbakow, J. Korczak, T. Story, M. Bode, and A. Odobesko: *Probing chiral symmetry with a topological domain wall sensor*, Newton **1**, 100009 (2025)

203. P. Härtl, M. Leisegang, and M. Bode: *Magnetic domain structure of ferromagnetic Tb(0001) films*, Phys. Rev. B **110**, 184405 (2024)

202. P. Härtl, M. Vogt, M. Leisegang, G. Bihlmayer, S. Blügel, and M. Bode: *Observation of a spin spiral state at a ferromagnet's vacuum interface*, Phys. Rev. Lett. **133**, 186701 (2024)

201. A. Odobesko, R. L. Klees, F. Friedrich, E. M. Hankiewicz, and M. Bode: *Boosting spatial and energy resolution in STM with a double-functionalized probe*, Sci. Adv. **10**, eadq6975 (2024)

200. H. Pfnür, C. Tegenkamp, S. Sanna, E. Jeckelmann, M. Horn-von Hoegen, U. Bovensiepen, N. Esser, W. G. Schmidt, M. Dähne, S. Wippermann, F. Bechstedt, M. Bode, R. Claessen, R. Ernstorfer, C. Hogan, M. Ligges, A. Pucci, J. Schäfer, E. Speiser, M. Wolf, and J. Wollschläger, *Atomic wires on substrates: Physics between one and two dimensions*, Surf. Sci. Rep. **79**, 100629 (2024)

199. W.-C. Pan, C. Mützel, S. Haldar, H. Hohmann, S. Heinze, J. M. Farrell, R. Thomale, M. Bode, F. Würthner, and J. Qi, *Diboraperylene Diborinic Acid Self-assembly on Ag(111) — Kagome Flat Band Localized States Imaged by Scanning Tunneling Microscopy and Spectroscopy*, Angew. Chem. Int. Ed. **69**, e2024003 (2024)

198. F. Friedrich, A. Odobesko, J. Bouaziz, S. Lounis, and M. Bode: *Spin-resolved spectroscopic evidence for spinarons in Co adatoms*, Nature Physics **20**, 28 (2024)

197. P. Härtl, M. Leisegang, J. Kügel, and M. Bode: *Probing spin-dependent charge transport at single-nanometer length scales*, Nano Lett. **23**, 11608 (2023)

196. P. M. Weber, T. Drevelow, J. Qi, P. Härtl, M. Bode, and S. Heinze: *Evidence for a conical spin spiral state in the Mn triple-layer on W(001): Spin-polarized scanning tunneling microscopy and first-principles calculations*, Phys. Rev. B **108**, 134419 (2023)

195. A. Christ, P. Härtl, M. Seitz, T. Edelmann, M. Bode, J. Waluk, and M. Leisegang: *Anisotropic coupling of individual vibrational modes to a Cu(110) substrate*, Phys. Chem. Chem. Phys. **25**, 23894 (2023)

194. P. Härtl, S. Schemmelmann, P. Krüger, M. Donath, and M. Bode: *Structural and electronic properties of Tl films on Ag(111): from* $(\sqrt{3}\times\sqrt{3})$ *surface alloy to moiré superstructure*, Phys. Rev. B **107**, 205144 (2023)

193. A. Christ, M. Bode, and M. Leisegang: *Real-Space Resolved Surface Reaction: Deprotonation and Metalation of Phthalocyanine*, Phys. Chem. Chem. Phys. **25**, 7681 (2023)

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187. P. Härtl, M. Leisegang, and M. Bode: *Magnetic domain structure of epitaxial Gd films grown on W(110)*, Phys. Rev. B **105**, 174431 (2022)

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