

List of Publications

MATTHIAS BODE

May 29, 2024

ARTICLES

203. A. Odobesko, R. L. Klees, F. Friedrich, E. M. Hankiewicz, and M. Bode: *Resolving the interference of Yu-Shiba-Rusinov states with multi-functionalized STM probe tips*, submitted
202. Y. Wang, F. Friedrich, M. Bode, and A. Odobesko: *Observation of zero-energy modes in Gd atomic chains on superconducting Nb(110)*, submitted
201. 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*, submitted
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 \(2023\)](#)
192. G. Wagner, S. Das, J. Jung, A. Odobesko, F. Küster, F. Keller, J. Korczak, A. Szczerbakow, T. Story, S. Parkin, R. Thomale, T. Neupert, M. Bode, and P. Sessi: *Interaction effects in a 1D flat band at a topological crystalline step edge*, [Nano Letters **23**, 2476 \(2023\)](#)

191. J. Qi, P. M. Weber, T. Kißlinger, L. Hammer, M. A. Schneider, and M. Bode: *Structure–property relationship of reversible magnetic chirality tuning*, [Phys. Rev. B **107**, L060409 \(2023\)](#)
190. S. Toksabay, M. Leisegang, A. Christ, P. Härtl, J. Krebs, T. B. Marder, S. Haldar, S. Heinze, M. Bode, and A. Krueger: *Controlled Formation of Porous 2D Lattices from C_3 -symmetric Ph_6 -Me-Tri-benzotriquinacene- OAc_3* , [Chem. Eur. J. e202203187 \(2023\)](#)
189. M. Leisegang, M. Böhme, D. Maiberger, P. Härtl, J. Kügel, and M. Bode: *Electron-induced switching processes of phthalocyanine molecules on $(\sqrt{3} \times \sqrt{3})Bi/Ag(111)R30^\circ$: Tautomerization accompanied by rotation*, [J. Phys. Chem. C **127**, 592 \(2023\)](#)
188. A. Christ, P. Härtl, P. Kloster, M. Bode, and M. Leisegang: *Tautomerization of HPc on $Cu(111)$* , [Phys. Rev. Research **4**, 043016 \(2022\)](#)
187. P. Härtl, M. Leisegang, and M. Bode: *Magnetic domain structure of epitaxial Gd films grown on $W(110)$* , [Phys. Rev. B **105**, 174431 \(2022\)](#)
186. F. Friedrich, R. Boshuis, M. Bode, and A. B. Odobesko: *Coupling of YSR states in 1D chains of Fe atoms on $Nb(110)$* , [Phys. Rev. B **103**, 235437 \(2021\)](#)
185. J. Jung, A. B. Odobesko, R. Boshuis, A. Szczerbakow, T. Story, and M. Bode: *A Systematic Investigation of the Coupling between One-Dimensional Edge States of a Topological Crystalline Insulator*, [Phys. Rev. Lett. **126**, 236402 \(2021\)](#)
184. R. Boshuis, A. B. Odobesko, F. Friedrich, J. Jung, and M. Bode: *A comparative growth study of ultra-thin Bi films on clean and oxygen-reconstructed $Nb(110)$* , [Phys. Rev. Mat. **5**, 054801 \(2021\)](#)
183. M. Leisegang, R. Schindhelm, J. Kügel, and M. Bode: *Anisotropic Ballistic Transport Revealed by Molecular Nanoprobe Experiments*, [Phys. Rev. Lett. **126**, 146601 \(2021\)](#)
182. M. Leisegang, A. Christ, S. Haldar, S. Heinze, and M. Bode: *Molecular chains — arranging and programming logic gates*, [Nano Lett. **21**, 550 \(2021\)](#)
181. A. B. Odobesko, D. Di Sante, A. Kowalski, S. Wilfert, F. Friedrich, R. Thomale, G. Sangiovanni, and M. Bode: *Observation of tunable single-atom Yu-Shiba-Rusinov states*, [Phys. Rev. B **102**, 174504 \(2020\)](#)
180. A. B. Odobesko, F. Friedrich, S.-B. Zhang, S. Haldar, S. Heinze, B. Trauzettel, and M. Bode: *Anisotropic vortices on superconducting $Nb(110)$* , [Phys. Rev. B **102**, 174502 \(2020\)](#)
179. M. Leisegang, T. Zenger, M. Bode, and J. Kügel: *Guiding a Proton — Controlled Directionality in a Single Molecule*, [J. Phys. Chem. C **124**, 10727 \(2020\)](#)
178. S. Meyer, M. Schmitt, M. Vogt, M. Bode, and S. Heinze: *Dead magnetic layers at the interface: Moment quenching through hybridization and frustration*, [Phys. Rev. Research **2**, 012075 \(2020\)](#)
177. M. Schmitt, C. H. Park, P. Weber, A. Jäger, J. Kemmer, M. Vogt, and M. Bode: *Structural and magnetic properties of 3d transition metal oxide chains on the (001) surfaces of Ir and Pt*, [Phys. Rev. B **100**, 054431 \(2019\)](#)
176. J. Kügel, T. Zenger, M. Leisegang, and M. Bode: *On the Impact of Geometrical Factors on Hot Electron-Induced Tautomerization*, [J. Chem. Phys. C **123**, 17056 \(2019\)](#)
175. M. Schmitt, P. Moras, G. Bihlmayer, R. Cotsakis, M. Vogt, J. Kemmer, A. Belabbes, P. M. Sheverdyaeva, A. K. Kundu, C. Carbone, S. Blügel, and M. Bode: *Indirect Chiral Magnetic Exchange through Dzyaloshinskii-Moriya-Enhanced RKKY Interactions in Manganese Oxide Chains on $Ir(100)$* , [Nature Comm. **10**, 2610 \(2019\)](#)

174. A. B. Odobesko, S. Haldar, S. Wilfert, J. Hagen, J. Jung, N. Schmidt, P. Sessi, M. Vogt, S. Heinze, and M. Bode: *On the preparation and electronic properties of clean superconducting Nb(110) surfaces*, *Phys. Rev. B* **99**, 115437 (2019)
173. M. Vogt, R. Buschmann, S. Toksabay, M. Schmitt, M. Schwab, M. Bode, and A. Krueger: *Self-Assembly and Electronic Structure of Tribenzotriquinacenes on Ag(111)*, *J. Chem. Phys. C* **123**, 5469 (2019)
172. S. Schreyeck, K. Brunner, L. W. Molenkamp, G. Karczewski, M. Schmitt, P. Sessi, M. Vogt, S. Wilfert, A. B. Odobesko, and M. Bode: *Breaking crystalline symmetry of epitaxial SnTe films by strain*, *Phys. Rev. Mat.* **3**, 024203 (2019)
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169. J. Kügel, M. Karolak, A. Krönlein, D. Serrate, M. Bode, and G. Sangiovanni: *Reversible magnetic collapse of high-spin molecules on a giant Rashba surface*, *npj Quantum Materials* **3**, 53 (2018)
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167. J. Kügel, M. Leisegang, and M. Bode: *Imprinting directionality into proton transfer reactions of an achiral molecule*, *ACS Nano* **18**, 8733 (2018)
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155. J. Kemmer and M. Bode: *Structural analysis of ultra-thin Pd films on $W(110)$* , *Surface Science* **657**, 44 (2017)
154. J. Kügel, A. Sixta, M. Böhme, A. Krönlein, and M. Bode: *Breaking Degeneracy of Tautomerization – Metastability from Infinity to Seconds*, *ACS Nano* **10**, 11058 (2016)
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152. P. Sessi, D. Di Sante, A. Szczerbakow, F. Glott, S. Wilfert, H. Schmidt, T. Bathon, P. Dziawa, M. Greiter, T. Neupert, G. Sangiovanni, T. Story, R. Thomale, and M. Bode: *Robust spin-polarized midgap states at step edges of topological crystalline insulators*, *Science* **354**, 1269 (2016)
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REVIEWS

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BOOK CONTRIBUTIONS

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