

# List of Publications

MATTHIAS BODE

April 4, 2024

## ARTICLES

202. 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
201. Y. Wang, F. Friedrich, M. Bode, and A. Odobesko: *Observation of zero-energy modes in Gd atomic chains on superconducting Nb(110)*, submitted
200. P. Härtl, M. Vogt, M. Leisegang, G. Bihlmayer, S. Blügel, and M. Bode: *Observation of a spin spiral state at a ferromagnets vacuum interface*, submitted
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-Tribenzotriquinacene- $OAc_3$* , *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)
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171. M. Leisegang, M. Bode, and J. Kügel: *Analyzing the influence of substituents on proton tautomerization—a comparison of tetra-tert-butyl phthalocyanine isomers*, *J. Chem. Phys. C* **122**, 29633 (2018)
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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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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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## REVIEWS

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## BOOK CONTRIBUTIONS

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