

List of Publications

MATTHIAS BODE

November 7, 2020

ARTICLES

178. M. Leisegang, R. Schindhelm, J. Kügel, and M. Bode: *Anisotropic Charge Transport on the Pd(110) Surface Revealed by Molecular Nanoprobe Experiments*, submitted.
177. M. Leisegang, A. Christ, S. Haldar, S. Heinze, and M. Bode: *Molecular chains — arranging and programming logic gates*, submitted.
176. 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 (in press).
175. 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).
174. M. Leisegang, T. Zenger, M. Bode, and J. Kügel: *Guiding a Proton — Controlled Directionality in a Single Molecule*, J. Chem. Phys. C **124**, 10727 (2020).
173. 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).
172. 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).
171. 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).
170. 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).
169. 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).
168. 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).

167. 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 \(2019\)](#).
166. 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 \(2018\)](#).
165. J. Kügel, P.-J. Hsu, M. Böhme, K. Schneider, J. Senkpiel, D. Serrate, M. Bode, and N. Lorente: *Jahn-Teller Splitting in Single Adsorbed Molecules Revealed by Isospin-Flip Excitations*, [Phys. Rev. Lett. **121**, 226402 \(2018\)](#).
164. 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 \(2018\)](#).
163. P. Rüßmann, S. K. Mahatha, P. Sessi, M. Valbuena, T. Bathon, K. Fauth, S. Godey, A. Mugarza, K. A. Kokh, O. E. Tereshchenko, P. Gargiani, M. Valvidares, E. Jimnez, N. B. Brookes, M. Bode, G. Bihlmayer, S. Blügel, P. Mavropoulos, C. Carbone, and A. Barla: *Towards Microscopic Control of the Magnetic Exchange Coupling at the Surface of a Topological Insulator*, [Journal of Physics: Materials **1**, 015002 \(2018\)](#).
162. J. Kügel, M. Leisegang, and M. Bode: *Imprinting directionality into proton transfer reactions of an achiral molecule*, [ACS Nano **18**, 8733 \(2018\)](#).
161. S. Wilfert, P. Sessi, Z. Wang, H. Schmidt, M. C. Martínez-Velarte, S. H. Lee, Y. S. Hor, A. F. Otte, Y. Ando, W. Wu, and M. Bode: *Scanning tunneling spectroscopy investigations of superconducting-doped topological insulators: Experimental pitfalls and results*, [Phys. Rev. B **98**, 085133 \(2018\)](#).
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158. O. Storz, P. Sessi, S. Wilfert, C. Dirker, T. Bathon, K. A. Kokh, O. E. Tereshchenko, and M. Bode: *Landau Level Broadening in the Three-Dimensional Topological Insulator Sb₂Te₃*, [Phys. Status Solidi RRL **12**, 1800112 \(2018\)](#).
157. M. Leisegang, F. Klein, J. Kügel, and M. Bode: *Analyzing the Wave Nature of Hot Electrons with a Molecular Nanoprobe*, [Nano Lett. **18**, 2165 \(2018\)](#).
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155. S. Wilfert, M. Schmitt, H. Schmidt, T. Maurerer, P. Sessi, H. Wang, Q. Mao, M. Fang, and M. Bode: *Scanning tunneling microscopy and spectroscopy studies of the heavy-electron superconductor TlNi₂Se₂*, [Phys. Rev. B **97**, 014514 \(2018\)](#).

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150. J. Kemmer and M. Bode: *Structural analysis of ultra-thin Pd films on $W(110)$* , *Surface Science* **657**, 44 (2017).
149. 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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147. 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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