

Valentin Müller

Publications

Complete publication list of Dr. Valentin L. Müller
h-index: 5 (Google Scholar)

- 2021 D. M. Mahler, **V. L. Müller**, C. Thienel, J. Wiedenmann, W. Beugeling, H. Buhmann, and L. W. Molenkamp. Massive and topological surface states in tensile-strained HgTe. *Nano Lett.*, 21(23):9869–9874.
- 2021 **V. L. Müller***, Y. Yan*, O. Kashuba, B. Trauzettel, M. Abdelghany, J. Kleinlein, W. Beugeling, H. Buhmann, and L. W. Molenkamp. Electron-hole scattering limited transport of Dirac fermions in a topological insulator. *Nano Lett.*, 21(12):5195–5200. (* Shared first authorship)
- 2020 J. Strunz, J. Wiedenmann, C. Fleckenstein, L. Lunczer, W. Beugeling, **V. L. Müller**, P. Shekhar, N. T. Ziani, S. Shamim, J. Kleinlein, H. Buhmann, B. Trauzettel, and L. W. Molenkamp. Interacting topological edge channels. *Nat. Phys.*, 16(1):83–88.
- 2019 L. Lunczer, P. Leubner, M. Endres, **V. L. Müller**, C. Brüne, H. Buhmann, and L. W. Molenkamp. Approaching quantization in macroscopic quantum spin Hall devices through gate training. *Phys. Rev. Lett.*, 123(4):047701.
- 2018 P. N. Fleischmann, R. Grob, **V. L. Müller**, R. Wehner, and W. Rössler. The geomagnetic field is a compass cue in *Cataglyphis* ant navigation. *Curr. Biol.*, 28(9):1440–1444.
- 2017 J. Coraux, W. Hourani, **V. L. Müller**, S. Lamare, D. A. Kamaruddin, L. Magaud, N. Bendiab, M. Den Hertog, O. Leynaud, F. Palmino, R. Salut, and F. Chérioux. Soluble two-dimensional covalent organometallic polymers by (arene)ruthenium-sulfur chemistry. *Chem. Eur. J.*, 23(46):10969.
- 2016 P. N. Fleischmann, M. Christian, **V. L. Müller**, W. Rössler, and R. Wehner. Ontogeny of learning walks and the acquisition of landmark information in desert ants, *Cataglyphis fortis*. *J. Exp. Biol.*, 219(19):3137–3145.
- 2013 B. W. Heinrich, G. Ahmadi, **V. L. Müller**, L. Braun, J. I. Pascual, and K. J. Franke. Change of the magnetic coupling of a metal-organic complex with the substrate by a stepwise ligand reaction. *Nano Lett.*, 13(10):4840–4843.

Würzburg, 4th of April 2022

*Zoology II, Biocenter, University of Würzburg
Am Hubland, 97074 Würzburg*

☎ +49 (0) 931 31-80087 • ✉ valentin.mueller@uni-wuerzburg.de