

# Lukas MÃ¼chler

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

2,169  
citations

430874

18  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

3039  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quasiparticle interference observation of the topologically nontrivial drumhead surface state in ZrSiTe. Physical Review B, 2022, 105, .	3.2	3
2	Signature of an ultrafast photoinduced Lifshitz transition in the nodal-line semimetal ZrSiTe. Physical Review B, 2021, 103, .	3.2	7
3	Topological classification of molecules and chemical reactions with a perplectic structure. Physical Review B, 2020, 101, .	3.2	4
4	Emerging chiral edge states from the confinement of a magnetic Weyl semimetal in $\text{CoS}_2$ . Physical Review B, 2020, 101, .	3.2	48
5	Modular Arithmetic with Nodal Lines: Drumhead Surface States in ZrSiTe. Physical Review X, 2020, 10, .	8.9	21
6	Signatures of Sixfold Degenerate Exotic Fermions in a Superconducting Metal $\text{PdSb}_2$ . Advanced Materials, 2020, 32, e1906046.	21.0	36
7	Influence of point defects on the electronic and topological properties of monolayer $\text{WTe}_2$ . Physical Review B, 2020, 102, .	3.2	52
8	Anomalous Hall effect and the role of Berry curvature in $\text{CoS}_2$ Heusler films. Physical Review B, 2019, 100, .	3.2	52
9	Extremely high conductivity observed in the triple point topological metal MoP. Nature Communications, 2019, 10, 2475.	12.8	54
10	Custodial glide symmetry of quantum spin Hall edge modes in monolayer $\text{WTe}_2$ . Physical Review B, 2019, 99, .	3.2	53
11	Superconducting order parameter of the nodal-line semimetal NaAlSi. APL Materials, 2019, 7, 121103.	5.1	25
12	Prediction of a magnetic Weyl semimetal without spin-orbit coupling and strong anomalous Hall effect in the Heusler compensated ferrimagnet $\text{Ti}_2\text{Mn}$ . Physical Review B, 2018, 97, .	3.2	74
13	Tunable Weyl and Dirac states in the nonsymmorphic compound CeSbTe. Science Advances, 2018, 4, eaar2317.	10.3	110
14	From Colossal to Zero: Controlling the Anomalous Hall Effect in Magnetic Heusler Compounds via Berry Curvature Design. Physical Review X, 2018, 8, .	8.9	74
15	Topological surface Fermi arcs in the magnetic Weyl semimetal $\text{CoS}_2$ . Physical Review B, 2018, 97, .	3.2	159
16	Giant anomalous Hall effect in a ferromagnetic kagome-lattice semimetal. Nature Physics, 2018, 14, 1125-1131.	16.7	876
17	Heusler, Weyl and Berry. Nature Reviews Materials, 2018, 3, 244-256.	48.7	250
18	Pressure-induced superconductivity up to 13.1 K in the pyrite phase of palladium diselenide $\text{PdSe}_2$ . Physical Review B, 2017, 96, .	3.2	66

#	ARTICLE	IF	CITATIONS
19	Surface Floating 2D Bands in Layered Nonsymmorphic Semimetals: ZrSiS and Related Compounds. Physical Review X, 2017, 7, .	8.9	48
20	Topological Nonsymmorphic Metals from Band Inversion. Physical Review X, 2016, 6, .	8.9	66
21	Fermionic Symmetry-Protected Topological Phase in a Two-Dimensional Hubbard Model. Physical Review Letters, 2016, 117, 096405.	7.8	7
22	A large family of filled skutterudites stabilized by electron count. Nature Communications, 2015, 6, 6489.	12.8	52
23	Möbius molecules and fragile Mott insulators. Physical Review B, 2014, 90, .	3.2	3
24	Effect of pressure on superconductivity in NaAlSi. Physical Review B, 2012, 86, .	3.2	16
25	Topological Insulators from a Chemist's Perspective. Angewandte Chemie - International Edition, 2012, 51, 7221-7225.	13.8	91