

# Max Hirschberger

## List of Publications by Year in descending order

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Version: 2024-02-01

30  
papers

5,102  
citations

331670

21  
h-index

454955

30  
g-index

30  
all docs

30  
docs citations

30  
times ranked

5795  
citing authors

#	ARTICLE	IF	CITATIONS
1	Large, non-saturating magnetoresistance in $WTe_2$ . Nature, 2014, 514, 205-208.	27.8	1,329
2	Evidence for the chiral anomaly in the Dirac semimetal $Na_3Bi$ . Science, 2015, 350, 413-416.	12.6	927
3	The chiral anomaly and thermopower of Weyl fermions in the half-Heusler $\hat{A}GdPtBi$ . Nature Materials, 2016, 15, 1161-1165.	27.5	436
4	Skyrmion lattice with a giant topological Hall effect in a frustrated triangular-lattice magnet. Science, 2019, 365, 914-918.	12.6	418
5	Time-Reversal-Breaking Weyl Fermions in Magnetic Heusler Alloys. Physical Review Letters, 2016, 117, 236401.	7.8	282
6	Skyrmion phase and competing magnetic orders on a breathing kagomé lattice. Nature Communications, 2019, 10, 5831.	12.8	214
7	Thermal Hall Effect of Spin Excitations in a Kagome Magnet. Physical Review Letters, 2015, 115, 106603.	7.8	195
8	Nanometric square skyrmion lattice in a centrosymmetric tetragonal magnet. Nature Nanotechnology, 2020, 15, 444-449.	31.5	192
9	Anomalous Nernst Effect in the Dirac Semimetal $Cd_3As_2$ . Physical Review Letters, 2017, 118, 136601.	7.8	138
10	Large thermal Hall conductivity of neutral spin excitations in a frustrated quantum magnet. Science, 2015, 348, 106-109.	12.6	135
11	Evidence for massive bulk Dirac fermions in $Pb_{1-x}Sn_xSe$ from Nernst and thermopower experiments. Nature Communications, 2013, 4, 2696.	12.8	126
12	Oscillations of the thermal conductivity in the spin-liquid state of $\hat{I}\pm$ - $RuCl_3$ . Nature Physics, 2021, 17, 915-919.	16.7	103
13	Correlation of crystal quality and extreme magnetoresistance of $WTe_2$ . Europhysics Letters, 2015, 110, 67002.	2.0	96
14	Chiral anomaly factory: Creating Weyl fermions with a magnetic field. Physical Review B, 2017, 95, .	3.2	94
15	Emergent electromagnetic induction in a helical-spin magnet. Nature, 2020, 586, 232-236.	27.8	60
16	Dirac metal to topological metal transition at a structural phase change in $Au_2Pb$ and prediction of topology	3.2	55
17	Topological Nernst Effect of the Two-Dimensional Skyrmion Lattice. Physical Review Letters, 2020, 125, 076602.	7.8	55
18	Nanometric skyrmion lattice from anisotropic exchange interactions in a centrosymmetric host. New Journal of Physics, 2021, 23, 023039.	2.9	50

#	ARTICLE	IF	CITATIONS
19	Quantum tricritical points in NbFe <sub>2</sub> . Nature Physics, 2018, 14, 62-67.	16.7	42
20	High-field depinned phase and planar Hall effect in the skyrmion host $\text{GdMn}_2\text{O}_7$ . Physical Review B, 2020, 101, .	3.2	42
21	Magnetic phase diagram of underdoped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>y</sub> inferred from torque magnetization and thermal conductivity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 12667-12672.	7.1	38
22	Paramagnetic to ferromagnetic phase transition in lightly Fe-doped $\text{CrMn}_2\text{B}$ . Physical Review B, 2014, 89, .	3.2	20
23	A gap-protected zero-Hall effect state in the quantum limit of the non-symmorphic metal KHgSb. Nature Materials, 2019, 18, 443-447.	27.5	14
24	Ordering phenomena of spin trimers accompanied by a large geometrical Hall effect. Physical Review B, 2019, 100, .	3.2	9
25	Ultrasmall Moment Incommensurate Spin Density Wave Order Masking a Ferromagnetic Quantum Critical Point in $\text{NbFe}_2$ . Physical Review Letters, 2019, 123, 247203.	7.8	8
26	Geometrical Hall effect and momentum-space Berry curvature from spin-reversed band pairs. Physical Review B, 2021, 103, .	3.2	8
27	Crystal growth and stoichiometry-dependent properties of the ferromagnetic Weyl semimetal $\text{ZrCo}_2\text{xSn}$ . Journal of Physics Condensed Matter, 2017, 29, 225702.	1.8	7
28	Large Hall and Nernst responses from thermally induced spin chirality in a spin-trimer ferromagnet. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	7
29	Robust noncoplanar magnetism in band-filling-tuned $(\text{Nd}_{1-x}\text{Ca}_x)_2\text{Mo}_2\text{O}_7$ . Physical Review B, 2021, 104, .	3.2	1
30	Weyl fermions promote collective magnetism. Nature Materials, 2021, 20, 1592-1593.	27.5	1