

# BÄrge GÄbel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9120587/publications.pdf>

Version: 2024-02-01

29  
papers

1,316  
citations

394421

19  
h-index

552781

26  
g-index

31  
all docs

31  
docs citations

31  
times ranked

1169  
citing authors

#	ARTICLE	IF	CITATIONS
1	Beyond skyrmions: Review and perspectives of alternative magnetic quasiparticles. <i>Physics Reports</i> , 2021, 895, 1-28.	25.6	307
2	Antiferromagnetic skyrmion crystals: Generation, topological Hall, and topological spin Hall effect. <i>Physical Review B</i> , 2017, 96, .	3.2	122
3	Magnetic bimerons as skyrmion analogues in in-plane magnets. <i>Physical Review B</i> , 2019, 99, .	3.2	118
4	Mapping spin-charge conversion to the band structure in a topological oxide two-dimensional electron gas. <i>Nature Materials</i> , 2019, 18, 1187-1193.	27.5	103
5	Elliptical Bloch skyrmion chiral twins in an antiskyrmion system. <i>Nature Communications</i> , 2020, 11, 1115.	12.8	92
6	Electrical writing, deleting, reading, and moving of magnetic skyrmioniums in a racetrack device. <i>Scientific Reports</i> , 2019, 9, 12119.	3.3	70
7	Unconventional topological Hall effect in skyrmion crystals caused by the topology of the lattice. <i>Physical Review B</i> , 2017, 95, .	3.2	59
8	Overcoming the speed limit in skyrmion racetrack devices by suppressing the skyrmion Hall effect. <i>Physical Review B</i> , 2019, 99, .	3.2	46
9	Spin and orbital Edelstein effects in a two-dimensional electron gas: Theory and application to interfaces. <i>Physical Review Research</i> , 2021, 3, .	3.6	37
10	Topological Hall signatures of magnetic hopfions. <i>Physical Review Research</i> , 2020, 2, .	3.6	32
11	Magnon transport in noncollinear spin textures: Anisotropies and topological magnon Hall effects. <i>Physical Review B</i> , 2017, 95, .	3.2	30
12	Forming individual magnetic biskyrmions by merging two skyrmions in a centrosymmetric nanodisk. <i>Scientific Reports</i> , 2019, 9, 9521.	3.3	30
13	Skyrmion ratchet propagation: utilizing the skyrmion Hall effect in AC racetrack storage devices. <i>Scientific Reports</i> , 2021, 11, 3020.	3.3	30
14	Taking an electron-magnon duality shortcut from electron to magnon transport. <i>Physical Review B</i> , 2018, 97, .	3.2	26
15	Magnetoelectric effect and orbital magnetization in skyrmion crystals: Detection and characterization of skyrmions. <i>Physical Review B</i> , 2019, 99, .	3.2	26
16	The family of topological Hall effects for electrons in skyrmion crystals. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	25
17	Setting of the magnetic structure of chiral kagome antiferromagnets by a seeded spin-orbit torque. <i>Science Advances</i> , 2022, 8, .	10.3	25
18	Evolution and competition between chiral spin textures in nanostripes with $D_{2d}$ symmetry. <i>Science Advances</i> , 2020, 6, .	10.3	24

#	ARTICLE	IF	CITATIONS
19	Colossal topological Hall effect at the transition between isolated and lattice-phase interfacial skyrmions. <i>Nature Communications</i> , 2021, 12, 2758.	12.8	21
20	Topological Hall Signatures of Two Chiral Spin Textures Hosted in a Single Tetragonal Inverse Heusler Thin Film. <i>ACS Nano</i> , 2020, 14, 13463-13469.	14.6	19
21	Signatures of lattice geometry in quantum and topological Hall effect. <i>New Journal of Physics</i> , 2017, 19, 063042.	2.9	18
22	Observation of Néel-type skyrmions in acentric self-intercalated Cr <sub>1+x</sub> Te <sub>2</sub> . <i>Nature Communications</i> , 2022, 13, .	12.8	18
23	Microscopic origin of the anomalous Hall effect in noncollinear kagome magnets. <i>Physical Review Research</i> , 2020, 2, .	3.6	17
24	Spin Hall effect in noncollinear kagome antiferromagnets. <i>Physical Review B</i> , 2021, 104, .	3.2	9
25	Observation of fractional spin textures in a Heusler material. <i>Nature Communications</i> , 2022, 13, 2348.	12.8	9
26	Quaternary-Digital Data Storage Based on Magnetic Bubbles in Anisotropic Materials. <i>Physical Review Applied</i> , 2021, 15, .	3.8	2
27	Compensated Quantum and Topological Hall Effects of Electrons in Polyatomic Stripe Lattices. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900518.	1.5	1
28	Mapping giant spin-charge conversion to the band structure in a topological oxide two-dimensional electron gas (Conference Presentation). , 2019, , .		0
29	Ferroelectric control of the spin to charge interconversion in oxide two-dimensional gas. , 2020, , .		0