

BÄrge GÄbel

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,316
citations

394421

19
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552781

26
g-index

31
all docs

31
docs citations

31
times ranked

1169
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of fractional spin textures in a Heusler material. Nature Communications, 2022, 13, 2348.	12.8	9
2	Setting of the magnetic structure of chiral kagome antiferromagnets by a seeded spin-orbit torque. Science Advances, 2022, 8, .	10.3	25
3	Observation of Néel-type skyrmions in acentric self-intercalated Cr _{1+x} Te ₂ . Nature Communications, 2022, 13, .	12.8	18
4	Beyond skyrmions: Review and perspectives of alternative magnetic quasiparticles. Physics Reports, 2021, 895, 1-28.	25.6	307
5	Skyrmion ratchet propagation: utilizing the skyrmion Hall effect in AC racetrack storage devices. Scientific Reports, 2021, 11, 3020.	3.3	30
6	Spin and orbital Edelstein effects in a two-dimensional electron gas: Theory and application to interfaces. Physical Review Research, 2021, 3, .	3.6	37
7	Colossal topological Hall effect at the transition between isolated and lattice-phase interfacial skyrmions. Nature Communications, 2021, 12, 2758.	12.8	21
8	Quaternary-Digital Data Storage Based on Magnetic Bubbles in Anisotropic Materials. Physical Review Applied, 2021, 15, .	3.8	2
9	Spin Hall effect in noncollinear kagome antiferromagnets. Physical Review B, 2021, 104, .	3.2	9
10	Topological Hall Signatures of Two Chiral Spin Textures Hosted in a Single Tetragonal Inverse Heusler Thin Film. ACS Nano, 2020, 14, 13463-13469.	14.6	19
11	Evolution and competition between chiral spin textures in nanostripes with D_{2d} symmetry. Science Advances, 2020, 6, .	10.3	24
12	Compensated Quantum and Topological Hall Effects of Electrons in Polyatomic Stripe Lattices. Physica Status Solidi (B): Basic Research, 2020, 257, 1900518.	1.5	1
13	Elliptical Bloch skyrmion chiral twins in an antiskyrmion system. Nature Communications, 2020, 11, 1115.	12.8	92
14	Topological Hall signatures of magnetic hopfions. Physical Review Research, 2020, 2, .	3.6	32
15	Microscopic origin of the anomalous Hall effect in noncollinear kagome magnets. Physical Review Research, 2020, 2, .	3.6	17
16	Ferroelectric control of the spin to charge interconversion in oxide two-dimensional gas. , 2020, , .		0
17	Electrical writing, deleting, reading, and moving of magnetic skyrmioniums in a racetrack device. Scientific Reports, 2019, 9, 12119.	3.3	70
18	Forming individual magnetic biskyrmions by merging two skyrmions in a centrosymmetric nanodisk. Scientific Reports, 2019, 9, 9521.	3.3	30

#	ARTICLE	IF	CITATIONS
19	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
20	Overcoming the speed limit in skyrmion racetrack devices by suppressing the skyrmion Hall effect. <i>Physical Review B</i> , 2019, 99, .	3.2	46
21	Magnetic bimerons as skyrmion analogues in in-plane magnets. <i>Physical Review B</i> , 2019, 99, .	3.2	118
22	Magnetoelectric effect and orbital magnetization in skyrmion crystals: Detection and characterization of skyrmions. <i>Physical Review B</i> , 2019, 99, .	3.2	26
23	Mapping giant spin-charge conversion to the band structure in a topological oxide two-dimensional electron gas (Conference Presentation). , 2019, , .		0
24	Taking an electron-magnon duality shortcut from electron to magnon transport. <i>Physical Review B</i> , 2018, 97, .	3.2	26
25	The family of topological Hall effects for electrons in skyrmion crystals. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	25
26	Unconventional topological Hall effect in skyrmion crystals caused by the topology of the lattice. <i>Physical Review B</i> , 2017, 95, .	3.2	59
27	Magnon transport in noncollinear spin textures: Anisotropies and topological magnon Hall effects. <i>Physical Review B</i> , 2017, 95, .	3.2	30
28	Signatures of lattice geometry in quantum and topological Hall effect. <i>New Journal of Physics</i> , 2017, 19, 063042.	2.9	18
29	Antiferromagnetic skyrmion crystals: Generation, topological Hall, and topological spin Hall effect. <i>Physical Review B</i> , 2017, 96, .	3.2	122