

Antiferromagnetic skyrmion crystals: Generation, topological Hall effect

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Skyrmions in magnetic multilayers. <i>Physics Reports</i> , 2017, 704, 1-49.	10.3	412
2	Magnonic topological insulators in antiferromagnets. <i>Physical Review B</i> , 2017, 96, .	1.1	101
3	Tuning the antiferromagnetic helical pitch length and nanoscale domain size in Fe ₃ PO ₄ O ₃ by magnetic dilution. <i>Physical Review B</i> , 2017, 96, .	1.1	2
4	Topological antiferromagnetic spintronics. <i>Nature Physics</i> , 2018, 14, 242-251.	6.5	427
5	Antiferromagnetic spintronics. <i>Reviews of Modern Physics</i> , 2018, 90, .	16.4	1,536
6	How to manipulate magnetic states of antiferromagnets. <i>Nanotechnology</i> , 2018, 29, 112001.	1.3	79
7	Skyrmionium “high velocity without the skyrmion Hall effect. <i>Scientific Reports</i> , 2018, 8, 16966.	1.6	75
8	Antiferromagnetism Emerging in a Ferromagnet with Gain. <i>Physical Review Letters</i> , 2018, 121, 197201.	2.9	41
9	Symmetry and Topology in Antiferromagnetic Spintronics. <i>Springer Series in Solid-state Sciences</i> , 2018, , 267-298.	0.3	4
10	Theory of the Topological Spin Hall Effect in Antiferromagnetic Skyrmions: Impact on Current-Induced Motion. <i>Physical Review Letters</i> , 2018, 121, 097204.	2.9	60
11	Single antiferromagnetic skyrmion transistor based on strain manipulation. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	24
12	Twisted skyrmions at domain boundaries and the method of image skyrmions. <i>Physical Review B</i> , 2018, 98, .	1.1	16
13	The family of topological Hall effects for electrons in skyrmion crystals. <i>European Physical Journal B</i> , 2018, 91, 1.	0.6	25
14	Electrical writing, deleting, reading, and moving of magnetic skyrmioniums in a racetrack device. <i>Scientific Reports</i> , 2019, 9, 12119.	1.6	70
15	Forming individual magnetic biskyrmions by merging two skyrmions in a centrosymmetric nanodisk. <i>Scientific Reports</i> , 2019, 9, 9521.	1.6	30
16	Dynamics of an antiferromagnetic skyrmion in a racetrack with a defect. <i>Physical Review B</i> , 2019, 100, .	1.1	37
17	Stabilization of the skyrmion crystal phase and transport in thin-film antiferromagnets. <i>Physical Review B</i> , 2019, 100, .	1.1	9
18	Overcoming the speed limit in skyrmion racetrack devices by suppressing the skyrmion Hall effect. <i>Physical Review B</i> , 2019, 99, .	1.1	46

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19	Spin eigenexcitations of an antiferromagnetic skyrmion. <i>Physical Review B</i> , 2019, 99, .	1.1	28
20	Topological Magnons and Edge States in Antiferromagnetic Skyrmion Crystals. <i>Physical Review Letters</i> , 2019, 122, 187203.	2.9	97
21	Skyrmion Crystals in Frustrated Shastryâ€™Sutherland Magnets. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900161.	1.2	9
22	Current-Driven Dynamics of Frustrated Skyrmions in a Synthetic Antiferromagnetic Bilayer. <i>Physical Review Applied</i> , 2019, 11, .	1.5	31
23	Stability and lifetime of antiferromagnetic skyrmions. <i>Physical Review B</i> , 2019, 99, .	1.1	56
24	Antiferromagnetic skyrmions overcoming obstacles in a racetrack. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 225802.	0.7	12
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26	Thermally driven topology in frustrated systems. <i>Physical Review B</i> , 2019, 99, .	1.1	2
27	Stability of atomic-sized skyrmions in antiferromagnetic bilayers. <i>Annals of Physics</i> , 2019, 405, 29-37.	1.0	3
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29	Tunable Magnonic Thermal Hall Effect in Skyrmion Crystal Phases of Ferrimagnets. <i>Physical Review Letters</i> , 2019, 122, 057204.	2.9	56
30	Magnetic bimerons as skyrmion analogues in in-plane magnets. <i>Physical Review B</i> , 2019, 99, .	1.1	118
31	Creation and Destruction of Skyrmions via Electrical Modulation of Local Magnetic Anisotropy in Magnetic Thin Films. <i>Physical Review Applied</i> , 2019, 11, .	1.5	6
32	Magnetoelectric effect and orbital magnetization in skyrmion crystals: Detection and characterization of skyrmions. <i>Physical Review B</i> , 2019, 99, .	1.1	26
33	Tuning the Skyrmion Hall Effect via Engineering of Spin-Orbit Interaction. <i>Physical Review Applied</i> , 2019, 12, .	1.5	12
34	Unconventional topological Hall effect in high-topological-number skyrmion crystals. <i>AIP Advances</i> , 2019, 9, 115103.	0.6	0
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36	From skyrmions to $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="double-struck"} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ vortices in distorted chiral antiferromagnets. <i>Physical Review B</i> , 2019, 100, .	1.1	15

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39	Skyrmion-electronics: writing, deleting, reading and processing magnetic skyrmions toward spintronic applications. Journal of Physics Condensed Matter, 2020, 32, 143001.	0.7	268
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56	Topological phase transition driven by magnetic field and topological Hall effect in an antiferromagnetic skyrmion lattice. <i>Physical Review B</i> , 2021, 103, .	1.1	15
57	Skyrmions in ferrimagnets. , 2021, , 315-332.		0
58	Skyrmion ratchet propagation: utilizing the skyrmion Hall effect in AC racetrack storage devices. <i>Scientific Reports</i> , 2021, 11, 3020.	1.6	30
59	Antiferromagnetic skyrmions and skyrmion density wave in a Rashba-coupled Hund insulator. <i>Physical Review B</i> , 2021, 103, .	1.1	9
60	Complex magnetic phases enriched by charge density waves in the topological semimetals CdSb and NaOsO_3 . <i>Physical Review B</i> , 2021, 103, .	1.1	15
61	Spirals and skyrmions in antiferromagnetic triangular lattices. <i>Physical Review Materials</i> , 2021, 5, .	0.9	13
62	Interaction-Stabilized Topological Magnon Insulator in Ferromagnets. <i>Physical Review X</i> , 2021, 11, .	2.8	40
63	Transformation from antiferromagnetic target skyrmion to antiferromagnetic skyrmion by unzipping process through a confined nanostructure. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 425801.	0.7	5
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66	Dynamical switching of magnetic topology in microwave-driven itinerant magnet. <i>Physical Review B</i> , 2021, 104, .	1.1	17
67	Topological aspects of antiferromagnets. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 103002.	1.3	36
68	Magnetism and topological Hall effect in antiferromagnetic Ru ₂ MnSn-based Heusler compounds. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 537, 168104.	1.0	5
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70	Skyrmions in antiferromagnets. , 2021, , 333-345.		0
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74	Quantum damping of skyrmion crystal eigenmodes due to spontaneous quasiparticle decay. <i>Physical Review Research</i> , 2020, 2, .	1.3	14
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80	Transport properties of the electronic states in the gate voltage-modulated skyrmion crystal. <i>European Physical Journal B</i> , 2022, 95, 1.	0.6	2
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90	Review-Magnetic Skyrmions in Chiral Ferromagnets: Electrical Transport Properties and Device Applications. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 115003.	0.9	3
91	Emergence of zero-field non-synthetic single and interchained antiferromagnetic skyrmions in thin films. <i>Nature Communications</i> , 2022, 13, .	5.8	6

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93	Type-II corner modes in topoelectrical circuits. <i>Physical Review B</i> , 2022, 106, .	1.1	5
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95	Spontaneous antiferromagnetic skyrmion/antiskyrmion lattice and spiral spin-liquid states in the frustrated triangular lattice. <i>Physical Review B</i> , 2022, 106, .	1.1	14
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