

# Magnetic skyrmions without the skyrmion Hall effect in perpendicular anisotropy

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Citation Report

#	ARTICLE	IF	CITATIONS
1	A compact skyrmionic leakyâ€“integrateâ€“fire spiking neuron device. <i>Nanoscale</i> , 2018, 10, 6139-6146.	2.8	96
2	Motion of a skyrmionium driven by spin wave. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	36
3	Reconfigurable Skyrmion Logic Gates. <i>Nano Letters</i> , 2018, 18, 1180-1184.	4.5	201
4	Controllable transport of a skyrmion in a ferromagnetic narrow channel with voltage-controlled magnetic anisotropy. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 205002.	1.3	17
5	Skyrmionium â€“ high velocity without the skyrmion Hall effect. <i>Scientific Reports</i> , 2018, 8, 16966.	1.6	75
6	Complementary Skyrmion Racetrack Memory Enables Voltage-Controlled Local Data Update Functionality. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4667-4673.	1.6	7
7	Efficient in-line skyrmion injection method for synthetic antiferromagnetic systems. <i>New Journal of Physics</i> , 2018, 20, 013029.	1.2	8
8	Accelerating, guiding, and compressing skyrmions by defect rails. <i>Nanoscale</i> , 2019, 11, 12589-12594.	2.8	33
9	Controlled modification of skyrmion information in a three-terminal racetrack memory. <i>Nanoscale</i> , 2019, 11, 6952-6961.	2.8	23
10	Current-induced skyrmion motion on magnetic nanotubes. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 225001.	1.3	27
11	Voltage-Controlled Skyrmion Memristor for Energy-Efficient Synapse Applications. <i>IEEE Electron Device Letters</i> , 2019, 40, 635-638.	2.2	31
12	Tuning the Skyrmion Hall Effect via Engineering of Spin-Orbit Interaction. <i>Physical Review Applied</i> , 2019, 12, .	1.5	12
13	Skyrmion latch and flip-flop in magnetic nanotracks with gradient anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 494, 165739.	1.0	4
14	First-principles Dzyaloshinskiiâ€“Moriya interaction in a non-collinear framework. <i>Scientific Reports</i> , 2020, 10, 20339.	1.6	20
15	Magnetization dynamics of nanoscale magnetic materials: A perspective. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	63
16	Thermal Brownian Motion of Skyrmion for True Random Number Generation. <i>IEEE Transactions on Electron Devices</i> , 2020, 67, 2553-2558.	1.6	20
17	Spin current pumped by confined breathing skyrmion. <i>New Journal of Physics</i> , 2020, 22, 053029.	1.2	2
18	Enhanced skyrmion motion via strip domain wall. <i>Physical Review B</i> , 2020, 101, .	1.1	23

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19	Scattering modes of skyrmions in a bilayer system with ferromagnetic coupling. <i>Nanotechnology</i> , 2021, 32, 175702.	1.3	6
20	Skyrmion propagation along curved racetracks. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	19
21	Skyrmion logic clocked via voltage-controlled magnetic anisotropy. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	28
22	Skyrmion devices for memory and logic applications. <i>APL Materials</i> , 2021, 9, .	2.2	89
23	Formation and growth of skyrmion crystal phase in a frustrated Heisenberg antiferromagnet with Dzyaloshinskii-Moriya interaction. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 527, 167755.	1.0	12
24	Controlled Domain-Wall Pair to Skyrmion Conversion in Typical Junction Geometry Useful for Magnetic Memory Devices. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 081002.	0.9	5
25	Transportation of topological spin textures at material boundaries. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 536, 168088.	1.0	1
26	Skyrmionic interconnect device. <i>Physical Review Research</i> , 2020, 2, .	1.3	16
27	Overview and advances in skyrmionics. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2018, 67, 131205.	0.2	3
28	Oblique drive tolerance of elliptical skyrmions moving in perpendicularly magnetized nanowire. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 075001.	1.3	4
29	Unidirectional localization and track-selection of antiferromagnetic skyrmions through tuning magnetocrystalline anisotropy barriers. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 546, 168852.	1.0	6
30	Dynamics and stability of skyrmions in a bent nano-beam. <i>New Journal of Physics</i> , 2022, 24, 033019.	1.2	0
31	Electric Field Control of the Skyrmion Hall Effect in Piezoelectric-Magnetic Devices. <i>Physical Review Applied</i> , 2021, 16, .	1.5	15
32	A Skyrmion Diode Based on Skyrmion Hall Effect. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 1293-1297.	1.6	15
33	Generation and manipulation of skyrmions and other topological spin structures with rare metals. <i>Rare Metals</i> , 2022, 41, 2200-2216.	3.6	24
34	Dynamic properties of a ferromagnetic skyrmion in an in-plane magnetic field. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	1
35	Reconfigurable Logic Operations via Gate Controlled Skyrmion Motion in a Nanomagnetic Device. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2290-2297.	2.0	13
36	Topologically Nontrivial Spin Textures in Thin Magnetic Films. <i>Physics of Metals and Metallography</i> , 2022, 123, 238-260.	0.3	9

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37	Soliton motion in skyrmion chains: Stabilization and guidance by nanoengineered pinning. <i>Physical Review B</i> , 2022, 105, .	1.1	9
38	Inhibition of Skyrmion Hall Effect by a Stripe Domain Wall. <i>Physical Review Applied</i> , 2022, 18, .	1.5	10
39	Elimination of the skyrmion Hall effect by tuning perpendicular magnetic anisotropy and spin polarization angle. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 456, 128497.	0.9	5
40	Experimental verification of Thiele equation for skyrmion Hall angle. <i>Applied Physics Express</i> , 0, , .	1.1	0
41	Skyrmion based 3D low complex runtime reconfigurable architecture design methodology of universal logic gate. <i>Nanotechnology</i> , 2023, 34, 13LT01.	1.3	2
42	Device geometry dependent deterministic skyrmion generation from a skyrmionium. <i>Nanotechnology</i> , 0, , .	1.3	0
43	Gate-voltage control of alternating-current-driven skyrmion propagation in the ferromagnetic nanotrack devices. <i>Chinese Physics B</i> , 0, , .	0.7	0