

# Karin Everschor-Sitte

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

4,909  
citations

346980

22  
h-index

214428

50  
g-index

50  
all docs

50  
docs citations

50  
times ranked

4094  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dzyaloshinskii-Moriya induced spin-transfer torques in kagome antiferromagnets. Physical Review B, 2022, 105, .	1.1	1
2	Skyrmion pinning energetics in thin film systems. Nature Communications, 2022, 13, .	5.8	25
3	Steering Majorana braiding via skyrmion-vortex pairs: A scalable platform. Physical Review B, 2022, 105, .	1.1	13
4	Nonzero Skyrmion Hall Effect in Topologically Trivial Structures. Physical Review Applied, 2022, 17, .	1.5	6
5	The promise of spintronics for unconventional computing. Journal of Magnetism and Magnetic Materials, 2021, 521, 167506.	1.0	66
6	Reliability of genomic variants across different next-generation sequencing platforms and bioinformatic processing pipelines. BMC Genomics, 2021, 22, 62.	1.2	5
7	A deeper look into natural sciences with physics-based and data-driven measures. IScience, 2021, 24, 102171.	1.9	5
8	Current-induced H-shaped-skyrmion creation and their dynamics in the helical phase. Journal Physics D: Applied Physics, 2021, 54, 404003.	1.3	3
9	Nonlinear Dynamics of Topological Ferromagnetic Textures for Frequency Multiplication. Physical Review Applied, 2021, 16, .	1.5	7
10	Current-Induced Dynamics of Chiral Magnetic Structures: Creation, Motion, and Applications. Topics in Applied Physics, 2021, , 147-181.	0.4	2
11	Spin-Wave Driven Bidirectional Domain Wall Motion in Kagome Antiferromagnets. Physical Review Letters, 2021, 127, 157203.	2.9	11
12	Scalable computational measures for entropic detection of latent relations and their applications to magnetic imaging. Communications in Applied Mathematics and Computational Science, 2021, 16, 267-297.	0.7	1
13	Readout of an antiferromagnetic spintronics system by strong exchange coupling of Mn <sub>2</sub> Au and Permalloy. Nature Communications, 2021, 12, 6539.	5.8	19
14	Reservoir Computing with Random Skyrmion Textures. Physical Review Applied, 2020, 14, .	1.5	79
15	Large surface magnetization in noncentrosymmetric antiferromagnets. Physical Review B, 2020, 102, .	1.1	2
16	Spin-transfer torque driven motion, deformation, and instabilities of magnetic skyrmions at high currents. Physical Review B, 2020, 101, .	1.1	25
17	The 2020 magnetism roadmap. Journal Physics D: Applied Physics, 2020, 53, 453001.	1.3	162
18	Facilitating domain wall injection in magnetic nanowires by electrical means. Physical Review B, 2020, 101, .	1.1	2

#	ARTICLE	IF	CITATIONS
19	Berry curvature for magnetoelastic waves. <i>Physical Review B</i> , 2020, 101, .	1.1	8
20	Neuromorphic spintronics. <i>Nature Electronics</i> , 2020, 3, 360-370.	13.1	516
21	Stability and dynamics of in-plane skyrmions in collinear ferromagnets. <i>Physical Review B</i> , 2020, 101, .	1.1	22
22	The role of temperature and drive current in skyrmion dynamics. <i>Nature Electronics</i> , 2020, 3, 30-36.	13.1	98
23	Chiral excitations of magnetic droplet solitons driven by their own inertia. <i>Physical Review B</i> , 2020, 101, .	1.1	9
24	The 2020 skyrmionics roadmap. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 363001.	1.3	245
25	Spin eigenexcitations of an antiferromagnetic skyrmion. <i>Physical Review B</i> , 2019, 99, .	1.1	28
26	Topological Characterization of Classical Waves: The Topological Origin of Magnetostatic Surface Spin Waves. <i>Physical Review Letters</i> , 2019, 122, 217201.	2.9	25
27	Thermal skyrmion diffusion used in a reshuffler device. <i>Nature Nanotechnology</i> , 2019, 14, 658-661.	15.6	221
28	Twists in ferromagnetic monolayers with trigonal prismatic symmetry. <i>Physical Review B</i> , 2019, 99, .	1.1	9
29	Unidirectional Magnon-Driven Domain Wall Motion Due to the Interfacial Dzyaloshinskii-Moriya Interaction. <i>Physical Review Letters</i> , 2019, 122, 147202.	2.9	10
30	Characterizing breathing dynamics of magnetic skyrmions and antiskyrmions within the Hamiltonian formalism. <i>Physical Review B</i> , 2019, 99, .	1.1	31
31	Effective description of domain wall strings. <i>Physical Review B</i> , 2018, 97, .	1.1	16
32	Magnetic Skyrmion as a Nonlinear Resistive Element: A Potential Building Block for Reservoir Computing. <i>Physical Review Applied</i> , 2018, 9, .	1.5	191
33	Potential implementation of reservoir computing models based on magnetic skyrmions. <i>AIP Advances</i> , 2018, 8, .	0.6	121
34	Roles of chiral renormalization on magnetization dynamics in chiral magnets. <i>Physical Review B</i> , 2018, 97, .	1.1	10
35	Perspective: Magnetic skyrmions – Overview of recent progress in an active research field. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	387
36	Effect of boundary-induced chirality on magnetic textures in thin films. <i>Physical Review B</i> , 2018, 98, .	1.1	9

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37	Painting and erasing skyrmions. Nature Electronics, 2018, 1, 266-267.	13.1	6
38	Asymmetric skyrmion Hall effect in systems with a hybrid Dzyaloshinskii-Moriya interaction. Physical Review B, 2018, 97, .	1.1	55
39	Skyrmion production on demand by homogeneous DC currents. New Journal of Physics, 2017, 19, 092001.	1.2	69
40	New Boundary-Driven Twist States in Systems with Broken Spatial Inversion Symmetry. Physical Review Letters, 2017, 119, 127203.	2.9	20
41	Spin texture motion in antiferromagnetic and ferromagnetic nanowires. Physical Review B, 2017, 95, .	1.1	16
42	Current-driven periodic domain wall creation in ferromagnetic nanowires. Physical Review B, 2016, 94, .	1.1	16
43	Interaction correction to the magnetoelectric polarizability of $\mathbb{Z}_2$ topological insulators. Physical Review B, 2015, 92, .	1.1	4
44	Half-metallic magnetism and the search for better spin valves. Journal of Applied Physics, 2014, 116, 083906.	1.1	2
45	Real-space Berry phases: Skyrmion soccer (invited). Journal of Applied Physics, 2014, 115, .	1.1	101
46	Rotating skyrmion lattices by spin torques and field or temperature gradients. Physical Review B, 2012, 86, .	1.1	173
47	Emergent electrodynamics of skyrmions in a chiral magnet. Nature Physics, 2012, 8, 301-304.	6.5	810
48	Long-Range Crystalline Nature of the Skyrmion Lattice in MnSi. Physical Review Letters, 2011, 107, 217206.	2.9	117
49	Current-induced rotational torques in the skyrmion lattice phase of chiral magnets. Physical Review B, 2011, 84, .	1.1	115
50	Spin Transfer Torques in MnSi at Ultralow Current Densities. Science, 2010, 330, 1648-1651.	6.0	1,015