

Jan MÃ¼ller

List of Publications by Year in descending order

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Version: 2024-02-01

24
papers

1,424
citations

471477

17
h-index

642715

23
g-index

25
all docs

25
docs citations

25
times ranked

1581
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspective: Magnetic skyrmionsâ€”Overview of recent progress in an active research field. Journal of Applied Physics, 2018, 124, .	2.5	387
2	Capturing of a magnetic skyrmion with a hole. Physical Review B, 2015, 91, .	3.2	135
3	Magnetic skyrmions on a two-lane racetrack. New Journal of Physics, 2017, 19, 025002.	2.9	128
4	Entropy-limited topological protection of skyrmions. Science Advances, 2017, 3, e1701704.	10.3	116
5	Hydrodynamic long-time tails after a quantum quench. Physical Review A, 2014, 89, .	2.5	75
6	Reciprocal space tomography of 3D skyrmion lattice order in a chiral magnet. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6386-6391.	7.1	71
7	Edge instabilities and skyrmion creation in magnetic layers. New Journal of Physics, 2016, 18, 065006.	2.9	70
8	Topological Nernst Effect of the Two-Dimensional Skyrmion Lattice. Physical Review Letters, 2020, 125, 076602.	7.8	55
9	Room-temperature antiskyrmions and sawtooth surface textures in a non-centrosymmetric magnet with S4 symmetry. Nature Materials, 2021, 20, 335-340.	27.5	55
10	Topological domain walls in helimagnets. Nature Physics, 2018, 14, 465-468.	16.7	47
11	Motion of skyrmions in nanowires driven by magnonic momentum-transfer forces. New Journal of Physics, 2017, 19, 065001.	2.9	46
12	Magnetic Skyrmions and Skyrmion Clusters in the Helical Phase of Cu_2MnSi . Physical Review Letters, 2017, 119, 137201.	7.8	46
13	Quantum Skyrmions in Frustrated Ferromagnets. Physical Review X, 2019, 9, .	8.9	43
14	Universality of annihilation barriers of large magnetic skyrmions in chiral and frustrated magnets. Physical Review B, 2019, 100, .	3.2	27
15	Real-space observations of 60-nm skyrmion dynamics in an insulating magnet under low heat flow. Nature Communications, 2021, 12, 5079.	12.8	27
16	Real-Space Observation of Topological Defects in Extended Skyrmion-Strings. Nano Letters, 2020, 20, 7313-7320.	9.1	26
17	Spin-transfer torque driven motion, deformation, and instabilities of magnetic skyrmions at high currents. Physical Review B, 2020, 101, .	3.2	25
18	Doping Control of Magnetic Anisotropy for Stable Antiskyrmion Formation in Schreibersite $(\text{Fe,Ni})_3\text{P}$ with S_4 symmetry. Advanced Materials, 2022, 34, e2108770.	21.0	15

#	ARTICLE	IF	CITATIONS
19	Combing the helical phase of chiral magnets with electric currents. Physical Review B, 2020, 102, .	3.2	14
20	Large Hall and Nernst responses from thermally induced spin chirality in a spin-trimer ferromagnet. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	7
21	Current-induced H-shaped-skyrmion creation and their dynamics in the helical phase. Journal Physics D: Applied Physics, 2021, 54, 404003.	2.8	3
22	Detection of Topological Spin Textures via Nonlinear Magnetic Responses. Nano Letters, 2022, 22, 14-21.	9.1	3
23	Current-Induced Dynamics of Chiral Magnetic Structures: Creation, Motion, and Applications. Topics in Applied Physics, 2021, , 147-181.	0.8	2
24	Shape-dependence of the barrier for skyrmions on a two-lane racetrack. , 2016, , .		1