

# Jan MÃ¼ller

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

1,424  
citations

535685

17  
h-index

721071

23  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1745  
citing authors

#	ARTICLE	IF	CITATIONS
1	Doping Control of Magnetic Anisotropy for Stable Antiskyrmion Formation in Schreibersite (Fe,Ni) <sub>3</sub> P with <i>S</i> <sub>4</sub> symmetry. <i>Advanced Materials</i> , 2022, 34, e2108770.	11.1	15
2	Detection of Topological Spin Textures via Nonlinear Magnetic Responses. <i>Nano Letters</i> , 2022, 22, 14-21.	4.5	3
3	Room-temperature antiskyrmions and sawtooth surface textures in a non-centrosymmetric magnet with <i>S</i> <sub>4</sub> symmetry. <i>Nature Materials</i> , 2021, 20, 335-340.	13.3	55
4	Current-induced H-shaped-skyrmion creation and their dynamics in the helical phase. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 404003.	1.3	3
5	Real-space observations of 60-nm skyrmion dynamics in an insulating magnet under low heat flow. <i>Nature Communications</i> , 2021, 12, 5079.	5.8	27
6	Large Hall and Nernst responses from thermally induced spin chirality in a spin-trimer ferromagnet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	7
7	Current-Induced Dynamics of Chiral Magnetic Structures: Creation, Motion, and Applications. <i>Topics in Applied Physics</i> , 2021, , 147-181.	0.4	2
8	Topological Nernst Effect of the Two-Dimensional Skyrmion Lattice. <i>Physical Review Letters</i> , 2020, 125, 076602.	2.9	55
9	Combining the helical phase of chiral magnets with electric currents. <i>Physical Review B</i> , 2020, 102, .	1.1	14
10	Real-Space Observation of Topological Defects in Extended Skyrmion-Strings. <i>Nano Letters</i> , 2020, 20, 7313-7320.	4.5	26
11	Spin-transfer torque driven motion, deformation, and instabilities of magnetic skyrmions at high currents. <i>Physical Review B</i> , 2020, 101, .	1.1	25
12	Universality of annihilation barriers of large magnetic skyrmions in chiral and frustrated magnets. <i>Physical Review B</i> , 2019, 100, .	1.1	27
13	Quantum Skyrmions in Frustrated Ferromagnets. <i>Physical Review X</i> , 2019, 9, .	2.8	43
14	Topological domain walls in helimagnets. <i>Nature Physics</i> , 2018, 14, 465-468.	6.5	47
15	Perspective: Magnetic skyrmions – Overview of recent progress in an active research field. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	387
16	Reciprocal space tomography of 3D skyrmion lattice order in a chiral magnet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6386-6391.	3.3	71
17	Magnetic skyrmions on a two-lane racetrack. <i>New Journal of Physics</i> , 2017, 19, 025002.	1.2	128
18	Motion of skyrmions in nanowires driven by magnonic momentum-transfer forces. <i>New Journal of Physics</i> , 2017, 19, 065001.	1.2	46

#	ARTICLE	IF	CITATIONS
19	Magnetic Skyrmions and Skyrmion Clusters in the Helical Phase of $\text{Cu}_2\text{MnSi}$ . Physical Review Letters, 2017, 119, 137201.	2.9	46
20	Entropy-limited topological protection of skyrmions. Science Advances, 2017, 3, e1701704.	4.7	116
21	Edge instabilities and skyrmion creation in magnetic layers. New Journal of Physics, 2016, 18, 065006.	1.2	70
22	Shape-dependence of the barrier for skyrmions on a two-lane racetrack. , 2016, , .		1
23	Capturing of a magnetic skyrmion with a hole. Physical Review B, 2015, 91, .	1.1	135
24	Hydrodynamic long-time tails after a quantum quench. Physical Review A, 2014, 89, .	1.0	75