

List of Publications by Year in descending order

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257101

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docs citations

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times ranked

3758
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous atomic-scale magnetic skyrmion lattice in two dimensions. <i>Nature Physics</i> , 2011, 7, 713-718.	6.5	1,521
2	Writing and Deleting Single Magnetic Skyrmions. <i>Science</i> , 2013, 341, 636-639.	6.0	1,217
3	Field-Dependent Size and Shape of Single Magnetic Skyrmions. <i>Physical Review Letters</i> , 2015, 114, 177203.	2.9	423
4	Electric-field-driven switching of individual magnetic skyrmions. <i>Nature Nanotechnology</i> , 2017, 12, 123-126.	15.6	297
5	Spin-Polarized Scanning Tunneling Microscopy with Antiferromagnetic Probe Tips. <i>Physical Review Letters</i> , 2002, 88, 057201.	2.9	240
6	Electrical detection of magnetic skyrmions by tunnelling non-collinear magnetoresistance. <i>Nature Nanotechnology</i> , 2015, 10, 1039-1042.	15.6	179
7	Information Transfer by Vector Spin Chirality in Finite Magnetic Chains. <i>Physical Review Letters</i> , 2012, 108, 197204.	2.9	151
8	Imaging and manipulating the spin direction of individual atoms. <i>Nature Nanotechnology</i> , 2010, 5, 350-353.	15.6	126
9	Pinning and movement of individual nanoscale magnetic skyrmions via defects. <i>New Journal of Physics</i> , 2016, 18, 055009.	1.2	94
10	Isolated zero field sub-10 nm skyrmions in ultrathin Co films. <i>Nature Communications</i> , 2019, 10, 3823.	5.8	84
11	Spin-polarized scanning tunneling microscopy study of 360° walls in an external magnetic field. <i>Physical Review B</i> , 2003, 67, .	1.1	81
12	Interface-induced chiral domain walls, spin spirals and skyrmions revealed by spin-polarized scanning tunneling microscopy. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 394002.	0.7	77
13	Magnetism of nanoscale Fe islands studied by spin-polarized scanning tunneling spectroscopy. <i>Physical Review B</i> , 2001, 63, .	1.1	72
14	Impact of the skyrmion spin texture on magnetoresistance. <i>Physical Review B</i> , 2017, 95, .	1.1	45
15	Competition of Dzyaloshinskii-Moriya and Higher-Order Exchange Interactions in $\text{Fe}/\text{Ir}(111)$ Atomic Bilayers. <i>Physical Review Letters</i> , 2018, 120, 207201.	2.9	44
16	Nanoscale magnetic skyrmions and target states in confined geometries. <i>Physical Review B</i> , 2019, 99, .	1.1	44
17	Direct observation of confined states in metallic single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2003, 83, 1011-1013.	1.5	43
18	Spin Friction Observed on the Atomic Scale. <i>Physical Review Letters</i> , 2012, 109, 116102.	2.9	42

#	ARTICLE	IF	CITATIONS
19	Inducing skyrmions in ultrathin Fe films by hydrogen exposure. Nature Communications, 2018, 9, 1571.	5.8	40
20	Influence of the Local Atom Configuration on a Hexagonal Skyrmion Lattice. Nano Letters, 2015, 15, 3280-3285.	4.5	36
21	Guiding Spin Spirals by Local Uniaxial Strain Relief. Physical Review Letters, 2016, 116, 017201.	2.9	35
22	Discovery of Magnetic Single- and Triple- q States in MnMnReO_6 . Physical Review Letters, 2016, 116, 017201.	2.9	35
23	Domain walls and Dzyaloshinskii-Moriya interaction in epitaxial Co/Ir(111) and Pt/Co/Ir(111). Physical Review B, 2018, 97, .	1.1	26
24	Plumbene on a Magnetic Substrate: A Combined Scanning Tunneling Microscopy and Density Functional Theory Study. Physical Review Letters, 2020, 124, 126401.	2.9	26
25	Skyrmions at the Edge: Confinement Effects in Fe_3Ir . Physical Review Letters, 2016, 116, 017201.	2.9	23
26	Magnetic properties of monolayer Co islands on Ir(111) probed by spin-resolved scanning tunneling microscopy. Physical Review B, 2011, 84, .	1.1	19
27	Electrical Detection of Domain Walls and Skyrmions in Co Films Using Noncollinear Magnetoresistance. Physical Review Letters, 2019, 123, 237205.	2.9	16
28	Towards skyrmion-superconductor hybrid systems. Physical Review Materials, 2020, 4, .	0.9	14
29	Parity Effects in 120° Spin Spirals. Physical Review Letters, 2014, 112, 047204.	2.9	12
30	Coupling of Coexisting Noncollinear Spin States in the Fe Monolayer on Re(0001). Nano Letters, 2016, 16, 6252-6256.	4.5	12
31	Coexistence of antiferromagnetism and superconductivity in Mn/Nb(110). Physical Review B, 2022, 105, .	1.1	12
32	Structural and magnetic properties of Ni/Fe nanostructures on Ir(111). Physical Review B, 2016, 93, .	1.1	11
33	Temperature-Induced Increase of Spin Spiral Periods. Physical Review Letters, 2017, 119, 037202.	2.9	9
34	Tailoring noncollinear magnetism by misfit dislocation lines. Physical Review B, 2016, 94, .	1.1	7
35	Discovery and characterization of a new type of domain wall in a row-wise antiferromagnet. Nature Communications, 2021, 12, 3488.	5.8	7
36	Zero-field skyrmionic states and in-field edge-skyrmions induced by boundary tuning. Communications Physics, 2022, 5, .	2.0	7

#	ARTICLE	IF	CITATIONS
37	Distorted Q state driven by topological-chiral magnetic interactions. Physical Review B, 2021, 104, .	1.1	3
38	Skyrmions: a twisted future. Physics World, 2017, 30, 25-28.	0.0	3
39	Pb-induced skyrmions in a double layer of Fe on Ir(111). Physical Review B, 2018, 98, .	1.1	3
40	Nanoscale skyrmions on a square atomic lattice. Physical Review B, 2022, 105, .	1.1	3
41	STM hits the fast lane. Nature Nanotechnology, 2010, 5, 830-831.	15.6	1
42	Magnetic domain walls in strain-patterned ultrathin films. Physical Review B, 2018, 98, .	1.1	1
43	Non-collinear Magnetism Studied with Spin-Polarized Scanning Tunneling Microscopy. Nanoscience and Technology, 2018, , 163-182.	1.5	0