

List of Publications by Year in descending order

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docs citations

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times ranked

3758
citing authors

#	ARTICLE	IF	CITATIONS
1	Zero-field skyrmionic states and in-field edge-skyrmions induced by boundary tuning. Communications Physics, 2022, 5, .	2.0	7
2	Coexistence of antiferromagnetism and superconductivity in Mn/Nb(110). Physical Review B, 2022, 105, .	1.1	12
3	Nanoscale skyrmions on a square atomic lattice. Physical Review B, 2022, 105, .	1.1	3
4	Discovery and characterization of a new type of domain wall in a row-wise antiferromagnet. Nature Communications, 2021, 12, 3488.	5.8	7
5	Distorted $3Q$ Skyrmions in MnTe . Physical Review B, 2021, 104, .	1.1	1
6	Discovery of Magnetic Single and Triplet States in MnTe . Physical Review B, 2021, 104, .	2.9	35
7	Plumbene on a Magnetic Substrate: A Combined Scanning Tunneling Microscopy and Density Functional Theory Study. Physical Review Letters, 2020, 124, 126401.	2.9	26
8	Towards skyrmion-superconductor hybrid systems. Physical Review Materials, 2020, 4, .	0.9	14
9	Isolated zero field sub-10 nm skyrmions in ultrathin Co films. Nature Communications, 2019, 10, 3823.	5.8	84
10	Nanoscale magnetic skyrmions and target states in confined geometries. Physical Review B, 2019, 99, .	1.1	44
11	Electrical Detection of Domain Walls and Skyrmions in Co Films Using Noncollinear Magnetoresistance. Physical Review Letters, 2019, 123, 237205.	2.9	16
12	Inducing skyrmions in ultrathin Fe films by hydrogen exposure. Nature Communications, 2018, 9, 1571.	5.8	40
13	Magnetic domain walls in strain-patterned ultrathin films. Physical Review B, 2018, 98, .	1.1	1
14	Non-collinear Magnetism Studied with Spin-Polarized Scanning Tunneling Microscopy. Nanoscience and Technology, 2018, , 163-182.	1.5	0
15	Pb-induced skyrmions in a double layer of Fe on Ir(111). Physical Review B, 2018, 98, .	1.1	3
16	Competition of Dzyaloshinskii-Moriya and Higher-Order Exchange Interactions in RhFe Atomic Bilayers on Ir(111). Physical Review Letters, 2018, 120, 207201.	2.9	44
17	Domain walls and Dzyaloshinskii-Moriya interaction in epitaxial Co/Ir(111) and Pt/Co/Ir(111). Physical Review B, 2018, 97, .	1.1	26
18	Skyrmions: a twisted future. Physics World, 2017, 30, 25-28.	0.0	3

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19	Impact of the skyrmion spin texture on magnetoresistance. <i>Physical Review B</i> , 2017, 95, .	1.1	45
20	Temperature-Induced Increase of Spin Spiral Periods. <i>Physical Review Letters</i> , 2017, 119, 037202.	2.9	9
21	Electric-field-driven switching of individual magnetic skyrmions. <i>Nature Nanotechnology</i> , 2017, 12, 123-126.	15.6	297
22	Tailoring noncollinear magnetism by misfit dislocation lines. <i>Physical Review B</i> , 2016, 94, .	1.1	7
23	Coupling of Coexisting Noncollinear Spin States in the Fe Monolayer on Re(0001). <i>Nano Letters</i> , 2016, 16, 6252-6256.	4.5	12
24	Structural and magnetic properties of Ni/Fe nanostructures on Ir(111). <i>Physical Review B</i> , 2016, 93, .	1.1	11
25	Guiding Spin Spirals by Local Uniaxial Strain Relief. <i>Physical Review Letters</i> , 2016, 116, 017201.	2.9	35
26	Skyrmions at the Edge: Confinement Effects in Fe/Ir Multilayers. <i>Physical Review Letters</i> , 2016, 116, 017201.	2.9	23
27	Pinning and movement of individual nanoscale magnetic skyrmions via defects. <i>New Journal of Physics</i> , 2016, 18, 055009.	1.2	94
28	Field-Dependent Size and Shape of Single Magnetic Skyrmions. <i>Physical Review Letters</i> , 2015, 114, 177203.	2.9	423
29	Influence of the Local Atom Configuration on a Hexagonal Skyrmion Lattice. <i>Nano Letters</i> , 2015, 15, 3280-3285.	4.5	36
30	Electrical detection of magnetic skyrmions by tunnelling non-collinear magnetoresistance. <i>Nature Nanotechnology</i> , 2015, 10, 1039-1042.	15.6	179
31	Parity Effects in 120° Spin Spirals. <i>Physical Review Letters</i> , 2014, 112, 047204.	2.9	12
32	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
33	Writing and Deleting Single Magnetic Skyrmions. <i>Science</i> , 2013, 341, 636-639.	6.0	1,217
34	Spin Friction Observed on the Atomic Scale. <i>Physical Review Letters</i> , 2012, 109, 116102.	2.9	42
35	Information Transfer by Vector Spin Chirality in Finite Magnetic Chains. <i>Physical Review Letters</i> , 2012, 108, 197204.	2.9	151
36	Magnetic properties of monolayer Co islands on Ir(111) probed by spin-resolved scanning tunneling microscopy. <i>Physical Review B</i> , 2011, 84, .	1.1	19

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37	Spontaneous atomic-scale magnetic skyrmion lattice in two dimensions. Nature Physics, 2011, 7, 713-718.	6.5	1,521
38	STM hits the fast lane. Nature Nanotechnology, 2010, 5, 830-831.	15.6	1
39	Imaging and manipulating the spin direction of individual atoms. Nature Nanotechnology, 2010, 5, 350-353.	15.6	126
40	Spin-polarized scanning tunneling microscopy study of 360° walls in an external magnetic field. Physical Review B, 2003, 67, .	1.1	81
41	Direct observation of confined states in metallic single-walled carbon nanotubes. Applied Physics Letters, 2003, 83, 1011-1013.	1.5	43
42	Spin-Polarized Scanning Tunneling Microscopy with Antiferromagnetic Probe Tips. Physical Review Letters, 2002, 88, 057201.	2.9	240
43	Magnetism of nanoscale Fe islands studied by spin-polarized scanning tunneling spectroscopy. Physical Review B, 2001, 63, .	1.1	72