

Gen Yin

List of Publications by Year in descending order

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43
papers

1,975
citations

331259

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41
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44
all docs

44
docs citations

44
times ranked

3203
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-Temperature Skyrmion Shift Device for Memory Application. Nano Letters, 2017, 17, 261-268.	4.5	227
2	Néel-type skyrmion in WTe ₂ /Fe ₃ GeTe ₂ van der Waals heterostructure. Nature Communications, 2020, 11, 3860.	5.8	208
3	Tailoring exchange couplings in magnetic topological-insulator/antiferromagnet heterostructures. Nature Materials, 2017, 16, 94-100.	13.3	137
4	Room-Temperature Skyrmions in an Antiferromagnet-Based Heterostructure. Nano Letters, 2018, 18, 980-986.	4.5	98
5	Topological charge analysis of ultrafast single skyrmion creation. Physical Review B, 2016, 93, .	1.1	62
6	Exchange-biasing topological charges by antiferromagnetism. Nature Communications, 2018, 9, 2767.	5.8	61
7	Topological spin Hall effect resulting from magnetic skyrmions. Physical Review B, 2015, 92, .	1.1	53
8	Spin-orbit torque from a ferromagnetic metal. Physical Review B, 2019, 99, .	1.1	49
9	Topological Transitions Induced by Antiferromagnetism in a Thin-Film Topological Insulator. Physical Review Letters, 2018, 121, 096802.	2.9	42
10	Proximity-Induced Magnetic Order in a Transferred Topological Insulator Thin Film on a Magnetic Insulator. ACS Nano, 2018, 12, 5042-5050.	7.3	41
11	3D Nanomagnetism in Low Density Interconnected Nanowire Networks. Nano Letters, 2021, 21, 716-722.	4.5	39
12	Skyrmion creation and annihilation by spin waves. Applied Physics Letters, 2015, 107, .	1.5	39
13	A Van der Waals Interface Hosting Two Groups of Magnetic Skyrmions. Advanced Materials, 2022, 34, e2110583.	11.1	37
14	Large exchange splitting in monolayer graphene magnetized by an antiferromagnet. Nature Electronics, 2020, 3, 604-611.	13.1	36
15	Enhancing electric-field control of ferromagnetism through nanoscale engineering of high-T _c MnGe _{1-x} nanomesh. Nature Communications, 2016, 7, 12866.	5.8	35
16	Probing the low-temperature limit of the quantum anomalous Hall effect. Science Advances, 2020, 6, eaaz3595.	4.7	35
17	First-Principles Study of Vacancies in Ti ₃ SiC ₂ and Ti ₃ AlC ₂ . Materials, 2017, 10, 103.	1.3	29
18	Planar Hall Effect in Antiferromagnetic MnTe Thin Films. Physical Review Letters, 2019, 122, 106602.	2.9	29

#	ARTICLE	IF	CITATIONS
19	Strongly Surface State Carrier-Dependent Spin-Orbit Torque in Magnetic Topological Insulators. <i>Advanced Materials</i> , 2020, 32, e1907661.	11.1	29
20	Observation of Quantum Anomalous Hall Effect and Exchange Interaction in Topological Insulator/Antiferromagnet Heterostructure. <i>Advanced Materials</i> , 2020, 32, e2001460.	11.1	27
21	Field-Free Spin-Orbit Torque Switching in Perpendicularly Magnetized Synthetic Antiferromagnets. <i>Advanced Functional Materials</i> , 2022, 32, 2109455.	7.8	21
22	Unidirectional Magneto-Resistance in Modulation-Doped Magnetic Topological Insulators. <i>Nano Letters</i> , 2019, 19, 692-698.	4.5	20
23	Termination switching of antiferromagnetic proximity effect in topological insulator. <i>Science Advances</i> , 2020, 6, eaaz8463.	4.7	20
24	Charged impurity scattering in two-dimensional materials with ring-shaped valence bands: GaS, GaSe, InS, and InSe. <i>Physical Review B</i> , 2019, 99, .	1.1	17
25	Nanoengineering of an Si/MnGe quantum dot superlattice for high Curie-temperature ferromagnetism. <i>Nanoscale</i> , 2017, 9, 3086-3094.	2.8	13
26	A Study of Vertical Transport through Graphene toward Control of Quantum Tunneling. <i>Nano Letters</i> , 2018, 18, 682-688.	4.5	13
27	Impedance Perturbation Theory for Coupled Uniform Transmission Lines. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015, 57, 299-308.	1.4	12
28	A first-principles investigation of the electronic, elastic, piezoelectric and acoustic properties of K3B6O10Cl. <i>Computational Materials Science</i> , 2013, 69, 81-86.	1.4	10
29	Spin-Josephson effects in exchange coupled antiferromagnetic insulators. <i>Physical Review B</i> , 2016, 94, .	1.1	9
30	Polarization-induced switching effect in graphene nanoribbon edge-defect junction. <i>Journal of Chemical Physics</i> , 2009, 131, 234706.	1.2	8
31	Coulomb impurity scattering in topological insulator thin films. <i>Applied Physics Letters</i> , 2014, 105, 033118.	1.5	8
32	First-principles investigation on the geometries, stabilities and defective properties of fluoride surfaces. <i>Computational Materials Science</i> , 2017, 133, 159-166.	1.4	8
33	Gate controlled Majorana zero modes of a two-dimensional topological superconductor. <i>Applied Physics Letters</i> , 2018, 113, 012601.	1.5	7
34	Planar-symmetry-breaking induced antisymmetric magnetoresistance in van der Waals ferromagnet Fe3GeTe2. <i>Nano Research</i> , 2022, 15, 2531-2536.	5.8	7
35	Tunneling spectroscopy of chiral states in ultra-thin topological insulators. <i>Journal of Applied Physics</i> , 2013, 113, 063707.	1.1	6
36	Piezoelectric, Mechanical and Acoustic Properties of KNaNbOF5 from First-Principles Calculations. <i>Materials</i> , 2015, 8, 8578-8589.	1.3	5

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37	Hydrogenation-chain-opened conductive channels in zigzag graphene nanoribbons. Journal of Applied Physics, 2011, 110, 033712.	1.1	3
38	Topological quantum materials. MRS Bulletin, 2020, 45, 373-379.	1.7	3
39	Interfacial States and Fanoâ€Feshbach Resonance in Grapheneâ€Silicon Vertical Junction. Nano Letters, 2019, 19, 6765-6771.	4.5	2
40	Discrete quantum geometry and intrinsic spin Hall effect. Physical Review B, 2021, 104, .	1.1	1
41	Computational study of the mobility in ultra-thin topological insulator films. , 2013, , .		0
42	Accuracy tolerance analysis of the multimode TRL de-embedding technique. , 2014, , .		0
43	The impact of the ring shaped valence band in few-layer iii-vi materials on fet operation. , 2015, , .		0