

Gen Yin

List of Publications by Year in descending order

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43
papers

1,975
citations

331259

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276539

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docs citations

44
times ranked

3203
citing authors

#	ARTICLE	IF	CITATIONS
1	Planar-symmetry-breaking induced antisymmetric magnetoresistance in van der Waals ferromagnet Fe ₃ GeTe ₂ . <i>Nano Research</i> , 2022, 15, 2531-2536.	5.8	7
2	Field-Free Spin-Orbit Torque Switching in Perpendicularly Magnetized Synthetic Antiferromagnets. <i>Advanced Functional Materials</i> , 2022, 32, 2109455.	7.8	21
3	A Van der Waals Interface Hosting Two Groups of Magnetic Skyrmions. <i>Advanced Materials</i> , 2022, 34, e2110583.	11.1	37
4	3D Nanomagnetism in Low Density Interconnected Nanowire Networks. <i>Nano Letters</i> , 2021, 21, 716-722.	4.5	39
5	Discrete quantum geometry and intrinsic spin Hall effect. <i>Physical Review B</i> , 2021, 104, .	1.1	1
6	Observation of Quantum Anomalous Hall Effect and Exchange Interaction in Topological Insulator/Antiferromagnet Heterostructure. <i>Advanced Materials</i> , 2020, 32, e2001460.	11.1	27
7	Large exchange splitting in monolayer graphene magnetized by an antiferromagnet. <i>Nature Electronics</i> , 2020, 3, 604-611.	13.1	36
8	Néel-type skyrmion in WTe ₂ /Fe ₃ GeTe ₂ van der Waals heterostructure. <i>Nature Communications</i> , 2020, 11, 3860.	5.8	208
9	Termination switching of antiferromagnetic proximity effect in topological insulator. <i>Science Advances</i> , 2020, 6, eaaz8463.	4.7	20
10	Topological quantum materials. <i>MRS Bulletin</i> , 2020, 45, 373-379.	1.7	3
11	Probing the low-temperature limit of the quantum anomalous Hall effect. <i>Science Advances</i> , 2020, 6, eaaz3595.	4.7	35
12	Strongly Surface State Carrier-Dependent Spin-Orbit Torque in Magnetic Topological Insulators. <i>Advanced Materials</i> , 2020, 32, e1907661.	11.1	29
13	Interfacial States and Fano-Feshbach Resonance in Graphene-Silicon Vertical Junction. <i>Nano Letters</i> , 2019, 19, 6765-6771.	4.5	2
14	Unidirectional Magneto-Resistance in Modulation-Doped Magnetic Topological Insulators. <i>Nano Letters</i> , 2019, 19, 692-698.	4.5	20
15	Spin-orbit torque from a ferromagnetic metal. <i>Physical Review B</i> , 2019, 99, .	1.1	49
16	Planar Hall Effect in Antiferromagnetic MnTe Thin Films. <i>Physical Review Letters</i> , 2019, 122, 106602.	2.9	29
17	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
18	Room-Temperature Skyrmions in an Antiferromagnet-Based Heterostructure. <i>Nano Letters</i> , 2018, 18, 980-986.	4.5	98

#	ARTICLE	IF	CITATIONS
19	A Study of Vertical Transport through Graphene toward Control of Quantum Tunneling. Nano Letters, 2018, 18, 682-688.	4.5	13
20	Topological Transitions Induced by Antiferromagnetism in a Thin-Film Topological Insulator. Physical Review Letters, 2018, 121, 096802.	2.9	42
21	Gate controlled Majorana zero modes of a two-dimensional topological superconductor. Applied Physics Letters, 2018, 113, 012601.	1.5	7
22	Exchange-biasing topological charges by antiferromagnetism. Nature Communications, 2018, 9, 2767.	5.8	61
23	Proximity-Induced Magnetic Order in a Transferred Topological Insulator Thin Film on a Magnetic Insulator. ACS Nano, 2018, 12, 5042-5050.	7.3	41
24	Nanoengineering of an Si/MnGe quantum dot superlattice for high Curie-temperature ferromagnetism. Nanoscale, 2017, 9, 3086-3094.	2.8	13
25	First-principles investigation on the geometries, stabilities and defective properties of fluoride surfaces. Computational Materials Science, 2017, 133, 159-166.	1.4	8
26	Room-Temperature Skyrmion Shift Device for Memory Application. Nano Letters, 2017, 17, 261-268.	4.5	227
27	Tailoring exchange couplings in magnetic topological-insulator/antiferromagnet heterostructures. Nature Materials, 2017, 16, 94-100.	13.3	137
28	First-Principles Study of Vacancies in Ti ₃ SiC ₂ and Ti ₃ AlC ₂ . Materials, 2017, 10, 103.	1.3	29
29	Spin-Josephson effects in exchange coupled antiferromagnetic insulators. Physical Review B, 2016, 94, .	1.1	9
30	Topological charge analysis of ultrafast single skyrmion creation. Physical Review B, 2016, 93, .	1.1	62
31	Enhancing electric-field control of ferromagnetism through nanoscale engineering of high-T _c Mn _x Ge _{1-x} nanomesh. Nature Communications, 2016, 7, 12866.	5.8	35
32	Topological spin Hall effect resulting from magnetic skyrmions. Physical Review B, 2015, 92, .	1.1	53
33	Piezoelectric, Mechanical and Acoustic Properties of KNaNbO ₅ from First-Principles Calculations. Materials, 2015, 8, 8578-8589.	1.3	5
34	The impact of the ring shaped valence band in few-layer iii-vi materials on fet operation. , 2015, , .		0
35	Impedance Perturbation Theory for Coupled Uniform Transmission Lines. IEEE Transactions on Electromagnetic Compatibility, 2015, 57, 299-308.	1.4	12
36	Skyrmion creation and annihilation by spin waves. Applied Physics Letters, 2015, 107, .	1.5	39

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37	Accuracy tolerance analysis of the multimode TRL de-embedding technique. , 2014, , .		0
38	Coulomb impurity scattering in topological insulator thin films. Applied Physics Letters, 2014, 105, 033118.	1.5	8
39	Computational study of the mobility in ultra-thin topological insulator films. , 2013, , .		0
40	Tunneling spectroscopy of chiral states in ultra-thin topological insulators. Journal of Applied Physics, 2013, 113, 063707.	1.1	6
41	A first-principles investigation of the electronic, elastic, piezoelectric and acoustic properties of K3B6O10Cl. Computational Materials Science, 2013, 69, 81-86.	1.4	10
42	Hydrogenation-chain-opened conductive channels in zigzag graphene nanoribbons. Journal of Applied Physics, 2011, 110, 033712.	1.1	3
43	Polarization-induced switching effect in graphene nanoribbon edge-defect junction. Journal of Chemical Physics, 2009, 131, 234706.	1.2	8