

Tianxiao Nie

List of Publications by Year in descending order

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35
papers

3,062
citations

331259

21
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414034

32
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38
all docs

38
docs citations

38
times ranked

4143
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetization switching through giant spin-orbit torque in a magnetically doped topological insulator heterostructure. <i>Nature Materials</i> , 2014, 13, 699-704.	13.3	773
2	Scale-Invariant Quantum Anomalous Hall Effect in Magnetic Topological Insulators beyond the Two-Dimensional Limit. <i>Physical Review Letters</i> , 2014, 113, 137201.	2.9	453
3	Electric-field control of spin-orbit torque in a magnetically doped topological insulator. <i>Nature Nanotechnology</i> , 2016, 11, 352-359.	15.6	212
4	Tailoring exchange couplings in magnetic topological-insulator/antiferromagnet heterostructures. <i>Nature Materials</i> , 2017, 16, 94-100.	13.3	137
5	Metal-to-insulator switching in quantum anomalous Hall states. <i>Nature Communications</i> , 2015, 6, 8474.	5.8	136
6	Above Room-Temperature Ferromagnetism in Wafer-Scale Two-Dimensional van der Waals Fe_3GeTe_2 Tailored by a Topological Insulator. <i>ACS Nano</i> , 2020, 14, 10045-10053.	7.3	124
7	Interplay between Different Magnetisms in Cr-Doped Topological Insulators. <i>ACS Nano</i> , 2013, 7, 9205-9212.	7.3	114
8	Manipulating Surface-Related Ferromagnetism in Modulation-Doped Topological Insulators. <i>Nano Letters</i> , 2013, 13, 4587-4593.	4.5	77
9	Broadband Spintronic Terahertz Emitter with Magnetic-Field Manipulated Polarizations. <i>Advanced Optical Materials</i> , 2019, 7, 1900487.	3.6	77
10	Electrical Spin Injection and Detection in $\text{Mn}_5\text{Ge}_3/\text{Ge}/\text{Mn}_5\text{Ge}_3$ Nanowire Transistors. <i>Nano Letters</i> , 2013, 13, 4036-4043.	4.5	54
11	Generation and manipulation of chiral broadband terahertz waves from cascade spintronic terahertz emitters. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	51
12	Near-field Terahertz Sensing of HeLa Cells and <i>Pseudomonas</i> Based on Monolithic Integrated Metamaterials with a Spintronic Terahertz Emitter. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35895-35902.	4.0	46
13	Generation and Control of Terahertz Spin Currents in Topology-Induced 2D Ferromagnetic Fe_3GeTe_2 Bi_2Te_3 Heterostructures. <i>Advanced Materials</i> , 2022, 34, e2106172.	11.1	39
14	Nonlinear terahertz emission in the three-dimensional topological insulator Bi_2Te_3 by terahertz emission spectroscopy. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	38
15	Enhancing electric-field control of ferromagnetism through nanoscale engineering of high-Tc $\text{Mn}_x\text{Ge}_{1-x}$ nanomesh. <i>Nature Communications</i> , 2016, 7, 12866.	5.8	35
16	Picosecond nonlinear spintronic dynamics investigated by terahertz emission spectroscopy. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	30
17	Quest for high-Curie temperature $\text{Mn}_x\text{Ge}_{1-x}$ diluted magnetic semiconductors for room-temperature spintronics applications. <i>Journal of Crystal Growth</i> , 2015, 425, 279-282.	0.7	28
18	Efficient Generation and Arbitrary Manipulation of Chiral Terahertz Waves Emitted from Bi_2Te_3 - Fe Heterostructures. <i>Advanced Photonics Research</i> , 2021, 2, 2000099.	1.7	28

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19	Nanoscale Growth of GaAs on Patterned Si(111) Substrates by Molecular Beam Epitaxy. <i>Crystal Growth and Design</i> , 2014, 14, 593-598.	1.4	24
20	Separation of emission mechanisms in spintronic terahertz emitters. <i>Physical Review B</i> , 2021, 104, .	1.1	22
21	Unidirectional Magneto-Resistance in Modulation-Doped Magnetic Topological Insulators. <i>Nano Letters</i> , 2019, 19, 692-698.	4.5	20
22	Enhanced photoluminescence due to lateral ordering of GeSi quantum dots on patterned Si(001) substrates. <i>Nanotechnology</i> , 2010, 21, 175701.	1.3	18
23	Nanoengineering of an Si/MnGe quantum dot superlattice for high Curie-temperature ferromagnetism. <i>Nanoscale</i> , 2017, 9, 3086-3094.	2.8	13
24	Generation of tailored terahertz waves from monolithic integrated metamaterials onto spintronic terahertz emitters. <i>Nanotechnology</i> , 2021, 32, 105201.	1.3	11
25	Flexible Control of Broadband Polarization in a Spintronic Terahertz Emitter Integrated with Liquid Crystal and Metasurface. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 32646-32656.	4.0	10
26	Superlattice of Fe ₃ Ge _{1-x} Nanodots and nanolayers for spintronics application. <i>Nanotechnology</i> , 2014, 25, 505702.	1.3	6
27	Large Room Temperature Charge-to-Spin Conversion Efficiency in Topological Insulator/CoFeB bilayers. , 2018, , .		4
28	Enhancing perpendicular magnetic anisotropy through dead layer reduction utilizing precise control of Mg insertions. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 511, 166956.	1.0	2
29	Variability Study of Toggle Spin Torques Magnetic Random Access Memory. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-5.	1.2	2
30	Terahertz Beam Steering based on CMOS Tunable Metamaterials. , 2021, , .		2
31	Generation and Control of Terahertz Spin Currents in Topology-Induced 2D Ferromagnetic Fe ₃ GeTe ₂ Bi ₂ Te ₃ Heterostructures (Adv. Mater.) Tj ETQq1 1 0.1784314 egBT /Ov		
32	Nanoscale Engineering of Ge-based Diluted Magnetic Semiconductors for Room-Temperature Spintronics Application. , 2018, , 403-419.		1
33	Fast Tunable Biological Fluorescence Detection Device with Integrable Liquid Crystal Filter. <i>Crystals</i> , 2021, 11, 272.	1.0	1
34	Engineering Magnetoresistance in Mn _x Ge _{1-x} System for Magnetic Sensor Application. , 2017, , .		0
35	Magnetic 2D ferromagnetic heterostructures for spintronic THz emission. , 2021, , .		0