

Jing Xia

List of Publications by Year in descending order

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62
papers

5,500
citations

172457

29
h-index

123424

61
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all docs

64
docs citations

64
times ranked

9268
citing authors

#	ARTICLE	IF	CITATIONS
1	Conformable amplified lead zirconate titanate sensors with enhanced piezoelectric response for cutaneous pressure monitoring. <i>Nature Communications</i> , 2014, 5, 4496.	12.8	757
2	Conformal piezoelectric energy harvesting and storage from motions of the heart, lung, and diaphragm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1927-1932.	7.1	720
3	Materials and Optimized Designs for Human-Machine Interfaces Via Epidermal Electronics. <i>Advanced Materials</i> , 2013, 25, 6839-6846.	21.0	649
4	CVD synthesis of large-area, highly crystalline MoSe ₂ atomic layers on diverse substrates and application to photodetectors. <i>Nanoscale</i> , 2014, 6, 8949.	5.6	418
5	Graphene-MoS ₂ hybrid nanostructures enhanced surface plasmon resonance biosensors. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 801-810.	7.8	385
6	Multifunctional Skin-Like Electronics for Quantitative, Clinical Monitoring of Cutaneous Wound Healing. <i>Advanced Healthcare Materials</i> , 2014, 3, 1597-1607.	7.6	226
7	Physical vapor deposition synthesis of two-dimensional orthorhombic SnS flakes with strong angle/temperature-dependent Raman responses. <i>Nanoscale</i> , 2016, 8, 2063-2070.	5.6	206
8	Large-Scale Growth of Two-Dimensional SnS ₂ Crystals Driven by Screw Dislocations and Application to Photodetectors. <i>Advanced Functional Materials</i> , 2015, 25, 4255-4261.	14.9	184
9	Unconventional Nickel Nitride Enriched with Nitrogen Vacancies as a High-Efficiency Electrocatalyst for Hydrogen Evolution. <i>Advanced Science</i> , 2018, 5, 1800406.	11.2	163
10	Skyrmion dynamics in a frustrated ferromagnetic film and current-induced helicity locking-unlocking transition. <i>Nature Communications</i> , 2017, 8, 1717.	12.8	147
11	Edge-Epitaxial Growth of 2D NbS ₂ WS ₂ Lateral Metal-Semiconductor Heterostructures. <i>Advanced Materials</i> , 2018, 30, e1803665.	21.0	109
12	Spin torque nano-oscillators based on antiferromagnetic skyrmions. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	106
13	A carbon dot-based fluorescence turn-on sensor for hydrogen peroxide with a photo-induced electron transfer mechanism. <i>Chemical Communications</i> , 2015, 51, 15574-15577.	4.1	94
14	Dynamics of the antiferromagnetic skyrmion induced by a magnetic anisotropy gradient. <i>Physical Review B</i> , 2018, 98, .	3.2	84
15	Current-Induced Dynamics and Chaos of Antiferromagnetic Bimerons. <i>Physical Review Letters</i> , 2020, 124, 037202.	7.8	82
16	Carbon Dots as Multifunctional Phototheranostic Agents for Photoacoustic/Fluorescence Imaging and Photothermal/Photodynamic Synergistic Cancer Therapy. <i>Advanced Therapeutics</i> , 2018, 1, 1800077.	3.2	77
17	Aligned Growth of Millimeter-Size Hexagonal Boron Nitride Single-Crystal Domains on Epitaxial Nickel Thin Film. <i>Small</i> , 2017, 13, 1604179.	10.0	76
18	Synthesis of Large-Sized Single-Crystal Hexagonal Boron Nitride Domains on Nickel Foils by Ion Beam Sputtering Deposition. <i>Advanced Materials</i> , 2015, 27, 8109-8115.	21.0	74

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19	Decoupling the effects of nanopore size and surface roughness on the attachment, spreading and differentiation of bone marrow-derived stem cells. <i>Biomaterials</i> , 2020, 248, 120014.	11.4	57
20	Epitaxial Growth of Large-Scale Orthorhombic CsPbBr ₃ Perovskite Thin Films with Anisotropic Photoresponse Property. <i>Advanced Functional Materials</i> , 2019, 29, 1904913.	14.9	55
21	Programmable microbial ink for 3D printing of living materials produced from genetically engineered protein nanofibers. <i>Nature Communications</i> , 2021, 12, 6600.	12.8	52
22	Type-II ZnO nanorod/SnO ₂ nanoparticle heterostructures: characterization of structural, optical and photocatalytic properties. <i>Nanoscale</i> , 2013, 5, 3828.	5.6	48
23	Epitaxy of Layered Orthorhombic SnS _{1-x} Se _x (1 ≤ x ≤ 1) Core-Shell Heterostructures with Anisotropic Photoresponse. <i>Advanced Functional Materials</i> , 2016, 26, 4673-4679.	14.9	45
24	Epitaxial growth of HfS ₂ on sapphire by chemical vapor deposition and application for photodetectors. <i>2D Materials</i> , 2017, 4, 031012.	4.4	43
25	Dynamics of a magnetic skyrmionium driven by spin waves. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	43
26	Tissue and cellular rigidity and mechanosensitive signaling activation in Alexander disease. <i>Nature Communications</i> , 2018, 9, 1899.	12.8	43
27	Static and dynamic properties of bimerons in a frustrated ferromagnetic monolayer. <i>Physical Review B</i> , 2020, 101, .	3.2	40
28	Ultraviolet photodetectors with high photosensitivity based on type-II ZnS/SnO ₂ core/shell heterostructured ribbons. <i>Nanoscale</i> , 2015, 7, 5311-5319.	5.6	35
29	van der Waals epitaxy and photoresponse of two-dimensional CdSe plates. <i>Nanoscale</i> , 2016, 8, 11375-11379.	5.6	34
30	Current-Driven Dynamics of Frustrated Skyrmions in a Synthetic Antiferromagnetic Bilayer. <i>Physical Review Applied</i> , 2019, 11, .	3.8	31
31	Zinc promotes clot stability by accelerating clot formation and modifying fibrin structure. <i>Thrombosis and Haemostasis</i> , 2016, 115, 533-542.	3.4	30
32	van der Waals epitaxial two-dimensional CdS _x Se _(1-x) semiconductor alloys with tunable-composition and application to flexible optoelectronics. <i>Nanoscale</i> , 2017, 9, 13786-13793.	5.6	30
33	Droplet encapsulation improves accuracy of immune cell cytokine capture assays. <i>Lab on A Chip</i> , 2020, 20, 1513-1520.	6.0	30
34	Dynamics of an elliptical ferromagnetic skyrmion driven by the spin-orbit torque. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	27
35	A microwave field-driven transistor-like skyrmionic device with the microwave current-assisted skyrmion creation. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	24
36	Current-driven skyrmionium in a frustrated magnetic system. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	22

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37	Bromide Ions Triggered Synthesis of Noble Metal-Based Intermetallic Nanocrystals. <i>Small</i> , 2020, 16, 2003782.	10.0	21
38	Design of two-dimensional horseshoe layout for stretchable electronic systems. <i>Journal of Materials Science</i> , 2013, 48, 8443-8448.	3.7	17
39	Current-induced dynamics of skyrmion tubes in synthetic antiferromagnetic multilayers. <i>Physical Review B</i> , 2021, 103, .	3.2	16
40	Effects of Vimentin Intermediate Filaments on the Structure and Dynamics of <i>In Vitro</i> Multicomponent Interpenetrating Cytoskeletal Networks. <i>Physical Review Letters</i> , 2021, 127, 108101.	7.8	15
41	Growth of vertical heterostructures based on orthorhombic SnSe/hexagonal In ₂ Se ₃ for high-performance photodetectors. <i>Nanoscale Advances</i> , 2019, 1, 2606-2611.	4.6	14
42	Generation and Hall effect of skyrmions enabled using nonmagnetic point contacts. <i>Physical Review B</i> , 2019, 100, .	3.2	14
43	Anomalous mechanics of Zn ²⁺ -modified fibrin networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	14
44	Configurable pixelated skyrmions on nanoscale magnetic grids. <i>Communications Physics</i> , 2021, 4, .	5.3	14
45	A frustrated bimeronium: Static structure and dynamics. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	13
46	In Situ Formation of Crystallographically Oriented Semiconductor Nanowire Arrays via Selective Vaporization for Optoelectronic Applications. <i>Advanced Materials</i> , 2016, 28, 7603-7612.	21.0	12
47	In Situ Measurement of Depletion Caused by SDBS Micelles on the Surface of Silica Particles Using Optical Tweezers. <i>Langmuir</i> , 2019, 35, 13536-13542.	3.5	12
48	Epidermal Electronics: Materials and Optimized Designs for Human-Machine Interfaces Via Epidermal Electronics (<i>Adv. Mater.</i> 47/2013). <i>Advanced Materials</i> , 2013, 25, 6776-6776.	21.0	11
49	Spin-Cherenkov effect in a magnetic nanostrip with interfacial Dzyaloshinskii-Moriya interaction. <i>Scientific Reports</i> , 2016, 6, 25189.	3.3	11
50	Edge-Assisted Epitaxy of 2D TaSe ₂ -MoSe ₂ Metal-Semiconductor Heterostructures and Application to Schottky Diodes. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	10
51	Epitaxial growth of wafer-scale two-dimensional polytypic ZnS thin films on ZnO substrates. <i>CrystEngComm</i> , 2017, 19, 2294-2299.	2.6	9
52	Three dimensional ZnO nanotube arrays and their optical tuning through formation of type-II heterostructures. <i>CrystEngComm</i> , 2016, 18, 2517-2523.	2.6	7
53	Dynamic transformation between a skyrmion string and a bimeron string in a layered frustrated system. <i>Physical Review B</i> , 2021, 104, .	3.2	7
54	The structural and optical properties of a single ZnO comb and an individual nail-like tooth. <i>CrystEngComm</i> , 2013, 15, 10604.	2.6	6

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55	Dynamics of Magnetic Skyrmion Clusters Driven by Spin-Polarized Current With a Spatially Varied Polarization. <i>IEEE Magnetics Letters</i> , 2018, 9, 1-5.	1.1	6
56	Al ₂ O ₃ buffer-facilitated epitaxial growth of high-quality ZnO/ZnS core/shell nanorod arrays. <i>Nanoscale</i> , 2021, 13, 11525-11533.	5.6	6
57	Epitaxial growth of structure-tunable ZnO/ZnS core/shell nanowire arrays using HfO ₂ as the buffer layer. <i>Nanoscale</i> , 2022, 14, 7579-7588.	5.6	5
58	The Remote Light Emission Modulated by Local Surface Plasmon Resonance for the CdSe NW@Au NP Hybrid Structure. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801418.	3.7	4
59	Signal detection based on the chaotic motion of an antiferromagnetic domain wall. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	4
60	Intermetallic Nanocrystals: Bromide Ions Triggered Synthesis of Noble Metal-Based Intermetallic Nanocrystals (Small 40/2020). <i>Small</i> , 2020, 16, 2070219.	10.0	3
61	Vapor phase epitaxy of PbS single-crystal films on water-soluble substrates and application to photodetectors. <i>Nano Research</i> , 2022, 15, 5402-5409.	10.4	3
62	The effect of the easy axis orientation on the magnetic properties of hard/soft multilayers. <i>Scientia Sinica: Physica, Mechanica Et Astronomica</i> , 2013, 43, 39-47.	0.4	0