

xixiang Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

572 papers	30,587 citations	83 h-index	160 g-index
604 ext. papers	34,773 ext. citations	7.4 avg, IF	7.14 L-index

#	Paper	IF	Citations
572	Wafer-scale single-crystal monolayer graphene grown on sapphire substrate.. <i>Nature Materials</i> , 2022 ,	27	13
571	Magnetic Full Adder Based on NDR-enhanced Anomalous Hall Effect. <i>IEEE Magnetics Letters</i> , 2022 , 1-1	1.6	
570	In situ carbon coating for enhanced chemical stability of copper nanowires. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022 , 29, 557-562	3.1	0
569	Low-temperature dielectric relaxation associated with NbO6 octahedron distortion in antimony modified potassium sodium niobate ceramics. <i>Journal of Materials Science and Technology</i> , 2022 , 115, 189-198	9.1	2
568	A sensitive biosensor for glucose determination based on the unique catalytic chemiluminescence of sodium molybdate. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022 , 265, 120401	4.4	2
567	Multifunctional Gelatin-Nanoparticle-Modified Chip for Enhanced Capture and Non-Destructive Release of Circulating Tumor Cells.. <i>Micromachines</i> , 2022 , 13,	3.3	1
566	Production of Large-Area Nucleus-Free Single-Crystal Graphene-Mesh Metamaterials with Zigzag Edges.. <i>Advanced Materials</i> , 2022 , e2201253	24	3
565	Unconventional spin pumping and magnetic damping in an insulating compensated ferrimagnet.. <i>Advanced Materials</i> , 2022 , e2200019	24	2
564	Inkjet Printing: A Cheap and Easy-to-Use Alternative to Wire Bonding for Academics. <i>Crystal Research and Technology</i> , 2022 , 57, 2100210	1.3	0
563	Integrated memory devices based on two-dimensional materials.. <i>Advanced Materials</i> , 2022 , e2201880	24	2
562	Current-Induced Magnetization Switching Across a Nearly Room-Temperature Compensation Point in an Insulating Compensated Ferrimagnet.. <i>ACS Nano</i> , 2022 ,	16.7	3
561	Hot carrier dynamics of BiTeI with large Rashba spin splitting. <i>RSC Advances</i> , 2022 , 12, 16479-16485	3.7	
560	Angle-dependent switching in a magnetic tunnel junction containing a synthetic antiferromagnet. <i>Applied Physics Letters</i> , 2022 , 120, 212401	3.4	
559	Lattice Orientation Heredity in the Transformation of 2D Epitaxial Films. <i>Advanced Materials</i> , 2021 , e2105190	19.1	1
558	The development of integrated circuits based on two-dimensional materials. <i>Nature Electronics</i> , 2021 , 4, 775-785	28.4	26
557	Electrochemical Deposited Calcium Phosphate Nanomaterials with Micro-Nano Interface for Capture and Non-Invasive Release of Cancer Cells. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2101097	4.6	0
556	Superposition of Emergent Monopole and Antimonopole in CoTb Thin Films. <i>Physical Review Letters</i> , 2021 , 127, 217201	7.4	1

555	Effect of surfactants on the morphology of ferroelectric crystals grown from MXene. <i>AIP Advances</i> , 2021 , 11, 115121	1.5	1
554	Competition between Chiral Energy and Chiral Damping in the Asymmetric Expansion of Magnetic Bubbles. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 4734-4742	4	
553	Growth of Two-Dimensional Materials at the Wafer Scale. <i>Advanced Materials</i> , 2021 , e2108258	24	9
552	Achieving Efficient and Stable Perovskite Solar Cells in Ambient Air Through Non-Halide Engineering. <i>Advanced Energy Materials</i> , 2021 , 11, 2102169	21.8	7
551	Control of spin-charge conversion in van der Waals heterostructures. <i>APL Materials</i> , 2021 , 9, 100901	5.7	3
550	Tailoring the Energy Band Structure and Interfacial Morphology of the ETL via Controllable Nanocluster Size Achieves High-Performance Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48555-48568	9.5	6
549	Using Dipole Interaction to Achieve Nonvolatile Voltage Control of Magnetism in Multiferroic Heterostructures. <i>Advanced Materials</i> , 2021 , e2105902	24	3
548	Magnetic memory driven by topological insulators. <i>Nature Communications</i> , 2021 , 12, 6251	17.4	12
547	High-Yield Ti C T MXene-MoS Integrated Circuits. <i>Advanced Materials</i> , 2021 , e2107370	24	4
546	Intensified Energy Storage in High-Voltage Nanohybrid Supercapacitors the Efficient Coupling between TiNbO/Holey-rGO Nanoarchitectures and Ionic Liquid-Based Electrolytes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 21349-21361	9.5	6
545	Giant Ferroelectric Resistance Switching Controlled by a Modulatory Terminal for Low-Power Neuromorphic In-Memory Computing. <i>Advanced Materials</i> , 2021 , 33, e2008709	24	20
544	Interfacial Engineering via Self-Assembled Thiol Silane for High Efficiency and Stability Perovskite Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100128	7.1	7
543	Optically Controlled Ferroelectric Nanodomains for Logic-in-Memory Photonic Devices With Simplified Structures. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 1992-1995	2.9	4
542	Modulation of electronic and magnetic properties of monolayer chromium trihalides by alloy and strain engineering. <i>Journal of Applied Physics</i> , 2021 , 129, 155104	2.5	1
541	Quantifying Real-Time Sample Temperature Under the Gas Environment in the Transmission Electron Microscope Using a Novel MEMS Heater. <i>Microscopy and Microanalysis</i> , 2021 , 27, 758-766	0.5	0
540	Ferroelectric Switching: Giant Ferroelectric Resistance Switching Controlled by a Modulatory Terminal for Low-Power Neuromorphic In-Memory Computing (Adv. Mater. 21/2021). <i>Advanced Materials</i> , 2021 , 33, 2170167	24	1
539	Nonvolatile magnetic half adder combined with memory writing. <i>Applied Physics Letters</i> , 2021 , 118, 182402	10.2	2
538	Emergence of Room Temperature Magnetotransport Anomaly in Epitaxial Pt/FeN/MgO Heterostructures toward Noncollinear Spintronics. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26639-26648	9.5	0

537	Emerging van der Waals ferroelectrics: Unique properties and novel devices. <i>Applied Physics Reviews</i> , 2021 , 8, 021316	17.3	9
536	Fe-based material@N-doped carbon composites as environment-friendly microwave absorbers. <i>Carbon</i> , 2021 , 171, 646-657	10.4	10
535	Evolution of cellulose acetate to monolayer graphene. <i>Carbon</i> , 2021 , 174, 24-35	10.4	9
534	Dual non-diffractive terahertz beam generators based on all-dielectric metasurface. <i>Frontiers of Optoelectronics</i> , 2021 , 14, 201-210	2.8	1
533	Spin transport in multilayer graphene away from the charge neutrality point. <i>Carbon</i> , 2021 , 172, 474-479	10.4	1
532	Nonreciprocal charge transport up to room temperature in bulk Rashba semiconductor HgTe . <i>Nature Communications</i> , 2021 , 12, 540	17.4	9
531	Epitaxial growth of large-grain-size ferromagnetic monolayer CrI for valley Zeeman splitting enhancement. <i>Nanoscale</i> , 2021 , 13, 2955-2962	7.7	3
530	Nonvolatile Magnetic Memory Combined With AND/NAND Boolean Logic Gates Based on Geometry-Controlled Magnetization Switching. <i>IEEE Magnetics Letters</i> , 2021 , 12, 1-5	1.6	
529	Berry Phase Engineering in $\text{SrRuO}/\text{SrIrO}/\text{SrTiO}$ Superlattices Induced by Band Structure Reconstruction. <i>ACS Nano</i> , 2021 , 15, 5086-5095	16.7	5
528	Superconductivity and High-Pressure Performance of 2D MoC Crystals. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2219-2225	6.4	1
527	Chiral Helimagnetism and One-Dimensional Magnetic Solitons in a Cr-Intercalated Transition Metal Dichalcogenide. <i>Advanced Materials</i> , 2021 , 33, e2101131	24	9
526	Modulation of Weyl semimetal state in half-Heusler GdPtBi enabled by hydrostatic pressure. <i>New Journal of Physics</i> , 2021 , 23, 083041	2.9	
525	Strain-induced switching between noncollinear and collinear spin configuration in magnetic Mn_5Ge_3 films. <i>Physical Review B</i> , 2021 , 104,	3.3	2
524	Predicting Interfacial Thermal Resistance by Ensemble Learning. <i>Computation</i> , 2021 , 9, 87	2.2	1
523	Interfacial Control via Reversible Ionic Motion in Battery-Like Magnetic Tunnel Junctions. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100512	6.4	1
522	Electrically Enhanced Exchange Bias via Solid-State Magneto-ionics. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38916-38922	9.5	7
521	Integrated Terahertz Generator-Manipulators Using Epsilon-near-Zero-Hybrid Nonlinear Metasurfaces. <i>Nano Letters</i> , 2021 , 21, 7699-7707	11.5	9
520	Magnetic tunnel junction based gradiometer for detection of cracks in cement. <i>Sensors and Actuators A: Physical</i> , 2021 , 331, 112966	3.9	0

519	Ion irradiation and implantation modifications of magneto-ionically induced exchange bias in Gd/NiCoO. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 540, 168479	2.8	3
518	Unraveling the origin of ferroelectric resistance switching through the interfacial engineering of layered ferroelectric-metal junctions.. <i>Nature Communications</i> , 2021 , 12, 7291	17.4	4
517	Feasible Way to Achieve Multifunctional (K, Na)NbO-Based Ceramics: Controlling Long-Range Ferroelectric Ordering.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 60227-60240	9.5	0
516	Gradient Index Devices for Terahertz Spoof Surface Plasmon Polaritons. <i>ACS Photonics</i> , 2020 , 7, 3305-3313	13.3	4
515	Terahertz Spoof Surface Plasmonic Logic Gates. <i>IScience</i> , 2020 , 23, 101685	6.1	5
514	Bending strain tailored exchange bias in epitaxial NiMn/Fe4N bilayers. <i>Applied Physics Letters</i> , 2020 , 117, 132401	3.4	9
513	Metagrating-Based Terahertz Polarization Beam Splitter Designed by Simplified Modal Method. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	2
512	Topological Hall Effect in Traditional Ferromagnet Embedded with Black-Phosphorus-Like Bismuth Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25135-25142	9.5	11
511	Topological electronic state and anisotropic Fermi surface in half-Heusler GdPtBi. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 355707	1.8	2
510	Carbon black-supported FM _{NC} (FM = Fe, Co, and Ni) single-atom catalysts synthesized by the self-catalysis of oxygen-coordinated ferrous metal atoms. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13166-13172	13.1	12
509	Unveiling defect-mediated carrier dynamics in monolayer semiconductors by spatiotemporal microwave imaging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 13908-13913	11.5	16
508	Dual-Functional Terahertz Waveplate Based on All-Dielectric Metamaterial. <i>Physical Review Applied</i> , 2020 , 13,	4.3	15
507	A localized surface acoustic wave applied spatiotemporally controllable chemical gradient generator. <i>Biomicrofluidics</i> , 2020 , 14, 024106	3.2	0
506	Thermally induced generation and annihilation of magnetic chiral skyrmion bubbles and achiral bubbles in MnNiGa magnets. <i>Applied Physics Letters</i> , 2020 , 116, 132402	3.4	3
505	Photoluminescent Ferroelectric LiNbO3 Crystals Grown from MXenes. <i>Advanced Functional Materials</i> , 2020 , 30, 1909843	15.6	6
504	A new concept to enhance piezoelectricity and temperature stability in KNN ceramics. <i>Chemical Engineering Journal</i> , 2020 , 402, 126215	14.7	18
503	Giant magnetoelectric effect in perpendicularly magnetized Pt/Co/Ta ultrathin films on a ferroelectric substrate. <i>Materials Horizons</i> , 2020 , 7, 2328-2335	14.4	6
502	Direct imaging of an inhomogeneous electric current distribution using the trajectory of magnetic half-skyrmions. <i>Science Advances</i> , 2020 , 6, eaay1876	14.3	10

501	Reduced degree of phase coexistence in KNN-Based ceramics by competing additives. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 2945-2953	6	10
500	Fully Integrated Indium Gallium Zinc Oxide NO Gas Detector. <i>ACS Sensors</i> , 2020 , 5, 984-993	9.2	45
499	Colorimetric acid phosphatase sensor based on MoO nanozyme. <i>Analytica Chimica Acta</i> , 2020 , 1105, 1624-1628	16.8	33
498	Enhanced Quality of Wafer-Scale MoS ₂ Films by a Capping Layer Annealing Process. <i>Advanced Functional Materials</i> , 2020 , 30, 1908040	15.6	9
497	Interfacial Roughness Facilitated by Dislocation and a Metal-Fuse Resistor Fabricated Using a Nanomanipulator. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24442-24449	9.5	1
496	Deformation of Néel-type skyrmions revealed by Lorentz transmission electron microscopy. <i>Applied Physics Letters</i> , 2020 , 116, 142402	3.4	9
495	Spin transmission in IrMn through measurements of spin Hall magnetoresistance and spin-orbit torque. <i>Physical Review B</i> , 2020 , 101,	3.3	5
494	Nano-domains in lead-free piezoceramics: a review. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 10026-10073	13	57
493	Formation and magnetic-field stability of magnetic dipole skyrmions and bubbles in a ferrimagnet. <i>Applied Physics Letters</i> , 2020 , 116, 142404	3.4	6
492	Surface susceptibility and conductivity of MoS ₂ and WSe ₂ monolayers: A first-principles and ellipsometry characterization. <i>Physical Review B</i> , 2020 , 101,	3.3	16
491	Curved terahertz surface plasmonic waveguide devices. <i>Optics Express</i> , 2020 , 28, 1987-1998	3.3	9
490	Generation of terahertz vector beams using dielectric metasurfaces via spin-decoupled phase control. <i>Nanophotonics</i> , 2020 , 9, 3393-3402	6.3	34
489	Enhancement of critical current density in a superconducting NbSe step junction. <i>Nanoscale</i> , 2020 , 12, 12076-12082	7.7	1
488	Ultra-compact terahertz plasmonic wavelength diplexer. <i>Applied Optics</i> , 2020 , 59, 10451-10456	0.2	2
487	Morphological quantification of proliferation-to-invasion transition in tumor spheroids. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020 , 1864, 129460	4	3
486	Emerging new phase boundary in potassium sodium-niobate based ceramics. <i>Chemical Society Reviews</i> , 2020 , 49, 671-707	58.5	109
485	Nanoscale pathways for human tooth decay - Central planar defect, organic-rich precipitate and high-angle grain boundary. <i>Biomaterials</i> , 2020 , 235, 119748	15.6	15
484	Understanding the Origin of Selective Reduction of CO to CO on Single-Atom Nickel Catalyst. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 511-518	3.4	10

483	Current-Induced Helicity Reversal of a Single Skyrmionic Bubble Chain in a Nanostructured Frustrated Magnet. <i>Advanced Materials</i> , 2020 , 32, e1904815	24	23
482	Silica microbeads capture fetal nucleated red blood cells for noninvasive prenatal testing of fetal ABO genotype. <i>Electrophoresis</i> , 2020 , 41, 966-972	3.6	3
481	Hierarchical Cobalt Selenides as Highly Efficient Microwave Absorbers with Tunable Frequency Response. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 1222-1231	9.5	38
480	Atomic Self-reconstruction of Catalyst Dominated Growth Mechanism of Graphite Structures. <i>ChemCatChem</i> , 2020 , 12, 1316-1324	5.2	4
479	Electric-field-driven non-volatile multi-state switching of individual skyrmions in a multiferroic heterostructure. <i>Nature Communications</i> , 2020 , 11, 3577	17.4	40
478	Néel-type skyrmion in WTe/FeGeTe van der Waals heterostructure. <i>Nature Communications</i> , 2020 , 11, 3860	17.4	81
477	Magnetotransport Mechanism of Individual Nanostructures Direct Magnetoresistance Measurement SEM. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39798-39806	9.5	1
476	Synergetic Contributions in Phase Boundary Engineering to the Piezoelectricity of Potassium Sodium Niobate Lead-Free Piezoceramics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39455-39461	9.5	5
475	A facile route for constructing Cu-N-C peroxidase mimics. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 8599-8606	7.9	9
474	The Role of Adding Bi0.5A0.5ZrO3 in Affecting Orthorhombic-Tetragonal Phase Transition Temperature and Electrical Properties in Potassium Sodium Niobate Ceramics. <i>Acta Materialia</i> , 2020 , 197, 224-234	8.4	12
473	Speed enhancement of magnetic logic-memory device by insulator-to-metal transition. <i>Applied Physics Letters</i> , 2020 , 117, 022407	3.4	6
472	Iontronics Using VCT MXene-Derived Metal-Organic Framework Solid Electrolytes. <i>ACS Nano</i> , 2020 , 14, 9840-9847	16.7	10
471	Large Barocaloric Effect with High Pressure-Driving Efficiency in a Hexagonal MnNi0.77Fe0.23Ge Alloy. <i>Chinese Physics Letters</i> , 2020 , 37, 076101	1.8	0
470	Tuning the Covalency of A-O Bonds to Improve the Performance of KNN-Based Ceramics with Multiphase Coexistence. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 49795-49804	9.5	6
469	Role of Buffer Layer and Building Unit in the Monolayer CrI Growth: A First-Principles Perspective. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9453-9460	6.4	8
468	Close Temporal Relationship between Oscillating Cytosolic K and Growth in Root Hairs of. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	3
467	Optoelectronic Ferroelectric Domain-Wall Memories Made from a Single Van Der Waals Ferroelectric. <i>Advanced Functional Materials</i> , 2020 , 30, 2004206	15.6	26
466	Unveiling the Origin of Multidomain Structures in Compositionally Modulated Cylindrical Magnetic Nanowires. <i>ACS Nano</i> , 2020 , 14, 12819-12827	16.7	9

465	Electron Beam Lithography of Magnetic Skyrmions. <i>Advanced Materials</i> , 2020 , 32, e2003003	24	14
464	Mobility-Fluctuation-Controlled Linear Positive Magnetoresistance in 2D Semiconductor BiOSe Nanoplates. <i>ACS Nano</i> , 2020 , 14, 11319-11326	16.7	10
463	Thermal creation of skyrmions in ferromagnetic films with perpendicular anisotropy and Dzyaloshinskii-Moriya interaction. <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 493, 165724	2.8	4
462	Effect of surface roughness on the anomalous Hall effect in Fe thin films. <i>Physical Review B</i> , 2020 , 101,	3.3	6
461	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. <i>Science Advances</i> , 2019 , 5, eaaw8904	14.3	119
460	High-performance and compact broadband terahertz plasmonic waveguide intersection. <i>Nanophotonics</i> , 2019 , 8, 1811-1819	6.3	15
459	Negative differential resistance and magnetotransport in Fe ₃ O ₄ /SiO ₂ /Si heterostructures. <i>Applied Physics Letters</i> , 2019 , 114, 242402	3.4	4
458	Enhancement of Anomalous Hall Effect via Interfacial Scattering in Metal-Organic Semiconductor Fe _x (C ₆₀) _{1-x} Granular Films Near the Metal-Insulator Transition. <i>Advanced Functional Materials</i> , 2019 , 29, 1808747	15.6	5
457	Understanding the piezoelectricity of high-performance potassium sodium niobate ceramics from diffused multi-phase coexistence and domain feature. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16803-16811	13.11	38
456	Develop a 3D neurological disease model of human cortical glutamatergic neurons using micropillar-based scaffolds. <i>Acta Pharmaceutica Sinica B</i> , 2019 , 9, 557-564	15.5	9
455	Gate-Tunable and Multidirection-Switchable Memristive Phenomena in a Van Der Waals Ferroelectric. <i>Advanced Materials</i> , 2019 , 31, e1901300	24	67
454	Solid state MXene based electrostatic fractional capacitors. <i>Applied Physics Letters</i> , 2019 , 114, 232903	3.4	10
453	Recent progress and perspectives of gas sensors based on vertically oriented ZnO nanomaterials. <i>Advances in Colloid and Interface Science</i> , 2019 , 270, 1-27	14.3	89
452	High-Performance Monolayer MoS ₂ Films at the Wafer Scale by Two-Step Growth. <i>Advanced Functional Materials</i> , 2019 , 29, 1901070	15.6	24
451	2D Materials: Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter (Adv. Mater. 18/2019). <i>Advanced Materials</i> , 2019 , 31, 1970132	24	0
450	Metal-Guided Selective Growth of 2D Materials: Demonstration of a Bottom-Up CMOS Inverter. <i>Advanced Materials</i> , 2019 , 31, e1900861	24	28
449	Improving Performance and Stability of Planar Perovskite Solar Cells through Grain Boundary Passivation with Block Copolymers. <i>Solar Rrl</i> , 2019 , 3, 1900078	7.1	28
448	Near-Infrared Light-Sensitive Hole-Transport-Layer Free Perovskite Solar Cells and Photodetectors with Hexagonal NaYF ₄ :Yb ³⁺ ,Tm ³⁺ @SiO ₂ Upconversion Nanoprism-Modified TiO ₂ Scaffold. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8236-8244	8.3	24

447	Ferroelectrics: MXene-Derived Ferroelectric Crystals (Adv. Mater. 14/2019). <i>Advanced Materials</i> , 2019 , 31, 1970102	24	1
446	Anatomy of Skyrmionic Textures in Magnetic Multilayers. <i>Advanced Materials</i> , 2019 , 31, e1807683	24	41
445	Direct imaging of dopant sites in rare-earth element-doped permanent magnet and correlated magnetism origin. <i>Nanoscale</i> , 2019 , 11, 4385-4393	7.7	4
444	Enhancing temperature stability in potassium-sodium niobate ceramics through phase boundary and composition design. <i>Journal of the European Ceramic Society</i> , 2019 , 39, 305-315	6	29
443	2D Optoelectronics: High-Performance Monolayer MoS ₂ Films at the Wafer Scale by Two-Step Growth (Adv. Funct. Mater. 32/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970224	15.6	1
442	High-throughput Production of ZnO-MoS-Graphene Heterostructures for Highly Efficient Photocatalytic Hydrogen Evolution. <i>Materials</i> , 2019 , 12,	3.5	19
441	Magnetotransport and electronic noise in superparamagnetic magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2019 , 115, 022402	3.4	10
440	Enhancement of Dielectric Permittivity of TiCT MXene/Polymer Composites by Controlling Flake Size and Surface Termination. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27358-27362	9.5	36
439	Growth of 2H stacked WSe ₂ bilayers on sapphire. <i>Nanoscale Horizons</i> , 2019 , 4, 1434-1442	10.8	11
438	Coupling-Mediated Selective Spin-to-Plasmonic-Orbital Angular Momentum Conversion. <i>Advanced Optical Materials</i> , 2019 , 7, 1900713	8.1	6
437	Fractal-Theory-Based Control of the Shape and Quality of CVD-Grown 2D Materials. <i>Advanced Materials</i> , 2019 , 31, e1902431	24	25
436	Boron Vacancies Causing Breakdown in 2D Layered Hexagonal Boron Nitride Dielectrics. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1321-1324	4.4	12
435	Comprehensive insights into effect of van der Waals contact on carbon nanotube network field-effect transistors. <i>Applied Physics Letters</i> , 2019 , 115, 173503	3.4	2
434	Competition between Electronic and Magnonic Spin Currents in Metallic Antiferromagnets. <i>Physical Review Applied</i> , 2019 , 12,	4.3	4
433	Spin-Decoupled Multifunctional Metasurface for Asymmetric Polarization Generation. <i>ACS Photonics</i> , 2019 , 6, 2933-2941	6.3	35
432	Accelerating the Screening of Perovskite Compositions for Photovoltaic Applications through High-Throughput Inkjet Printing. <i>Advanced Functional Materials</i> , 2019 , 29, 1905487	15.6	23
431	p-type codoping effect in (Ga,Mn)As: Mn lattice location versus magnetic properties. <i>Physical Review Materials</i> , 2019 , 3,	3.2	2
430	Critical behavior of intercalated quasi-van der Waals ferromagnet Fe _{0.26} TaS ₂ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	11

429	Terahertz metamaterial beam splitters based on untraditional coding scheme. <i>Optics Express</i> , 2019 , 27, A1627-A1635	3.3	10
428	MXene-Derived Ferroelectric Crystals. <i>Advanced Materials</i> , 2019 , 31, e1806860	24	26
427	Weak antilocalization effect and high-pressure transport properties of ScPdBi single crystal. <i>Applied Physics Letters</i> , 2019 , 115, 172407	3.4	7
426	The acoustofluidic focusing and separation of rare tumor cells using transparent lithium niobate transducers. <i>Lab on A Chip</i> , 2019 , 19, 3922-3930	7.2	10
425	Anisotropic planar Hall effect in the type-II topological Weyl semimetal WTe ₂ . <i>Physical Review B</i> , 2019 , 100,	3.3	19
424	Electric-Field-Enhanced Bulk Perpendicular Magnetic Anisotropy in GdFe/Pb(MgNb)TiO Multiferroic Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 47091-47097	9.5	3
423	Hybrid organic-metal oxide multilayer channel transistors with high operational stability. <i>Nature Electronics</i> , 2019 , 2, 587-595	28.4	30
422	Full voltage manipulation of the resistance of a magnetic tunnel junction. <i>Science Advances</i> , 2019 , 5, eaay4141	11.1	16
421	A valve-based microfluidic device for on-chip single cell treatments. <i>Electrophoresis</i> , 2019 , 40, 961-968	3.6	10
420	Manipulating the Topology of Nanoscale Skyrmion Bubbles by Spatially Geometric Confinement. <i>ACS Nano</i> , 2019 , 13, 922-929	16.7	28
419	Ten States of Nonvolatile Memory through Engineering Ferromagnetic Remanent Magnetization. <i>Advanced Functional Materials</i> , 2019 , 29, 1806460	15.6	10
418	Giant nonvolatile manipulation of magnetoresistance in magnetic tunnel junctions by electric fields via magnetoelectric coupling. <i>Nature Communications</i> , 2019 , 10, 243	17.4	58
417	Efficient Welding of Silver Nanowires embedded in a Poly(vinylidene fluoride) Film for Robust Wearable Electronics. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800438	6.8	8
416	High-flux water desalination with interfacial salt sieving effect in nanoporous carbon composite membranes. <i>Nature Nanotechnology</i> , 2018 , 13, 345-350	28.7	106
415	Multidirection Piezoelectricity in Mono- and Multilayered Hexagonal HnSe. <i>ACS Nano</i> , 2018 , 12, 4976-4983	16.7	133
414	Temperature stability and electrical properties in La-doped KNN-based ceramics. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 4084-4094	3.8	26
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