xixiang Zhang

List of Publications by Citations

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	Locally resonant sonic materials. *Science*, **2000**, 289, 1734-6	33.3	3041
571	Influence of negative lattice expansion and metamagnetic transition on magnetic entropy change in the compound LaFe11.4Si1.6. *Applied Physics Letters*, **2001**, 78, 3675-3677	3.4	1034
570	Exploring atomic defects in molybdenum disulphide monolayers. *Nature Communications*, **2015**, 6, 6293	17.4	851
569	Dopamine as a robust anchor to immobilize functional molecules on the iron oxide shell of magnetic nanoparticles. *Journal of the American Chemical Society*, **2004**, 126, 9938-9	16.4	793
568	Superconductivity in 4 angstrom single-walled carbon nanotubes. *Science*, **2001**, 292, 2462-5	33.3	673
567	Facile one-pot synthesis of bifunctional heterodimers of nanoparticles: a conjugate of quantum dot and magnetic nanoparticles. *Journal of the American Chemical Society*, **2004**, 126, 5664-5	16.4	669
566	High-surface-area silica nanospheres (KCC-1) with a fibrous morphology. *Angewandte Chemie - International Edition*, **2010**, 49, 9652-6	16.4	518
565	Low-bandgap mixed tin□lead iodide perovskite absorbers with long carrier lifetimes for all-perovskite tandem solar cells. *Nature Energy*, **2017**, 2,	62.3	515
564	Highly Stable Aqueous Zinc-Ion Storage Using a Layered Calcium Vanadium Oxide Bronze Cathode. *Angewandte Chemie - International Edition*, **2018**, 57, 3943-3948	16.4	509
563	Doping monolayer graphene with single atom substitutions. *Nano Letters*, **2012**, 12, 141-4	11.5	464
562	Superior Piezoelectric Properties in Potassium-Sodium Niobate Lead-Free Ceramics. *Advanced Materials*, **2016**, 28, 8519-8523	24	446
561	Nitrilotriacetic acid-modified magnetic nanoparticles as a general agent to bind histidine-tagged proteins. *Journal of the American Chemical Society*, **2004**, 126, 3392-3	16.4	409
560	FePt@CoS(2) yolk-shell nanocrystals as a potent agent to kill HeLa cells. *Journal of the American Chemical Society*, **2007**, 129, 1428-33	16.4	363
559	Large magnetoresistance in single-crystalline Ni50Mn50□Inx alloys (x=14□16) upon martensitic transformation. *Applied Physics Letters*, **2006**, 89, 162503	3.4	354
558	Processible Nanostructured Materials with Electrical Conductivity and Magnetic Susceptibility: Preparation and Properties of Maghemite/Polyaniline Nanocomposite Films. *Chemistry of Materials*, **1999**, 11, 1581-1589	9.6	342
557	Multifunctional yolk-shell nanoparticles: a potential MRI contrast and anticancer agent. *Journal of the American Chemical Society*, **2008**, 130, 11828-33	16.4	336
556	Efficient hole-blocking layer-free planar halide perovskite thin-film solar cells. *Nature Communications*, **2015**, 6, 6700	17.4	314

555	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor InSe. *Nano Letters*, **2018**, 18, 1253-1258	11.5	293
554	Efficient two-terminal all-perovskite tandem solar cells enabled by high-quality low-bandgap absorber layers. *Nature Energy*, **2018**, 3, 1093-1100	62.3	284
553	Field tuning of thermally activated magnetic quantum tunnelling in Mn 12 Ac molecules. *Europhysics Letters*, **1996**, 35, 301-306	1.6	268
552	Interface engineering in planar perovskite solar cells: energy level alignment, perovskite morphology control and high performance achievement. *Journal of Materials Chemistry A*, **2017**, 5, 1658-1666	13	266
551	Magnetocaloric effect in La0.67Ca0.33MnO and La0.60Y0.07Ca0.33MnO bulk materials. *Applied Physics Letters*, **1996**, 69, 3596-3598	3.4	240
550	Intracellular spatial control of fluorescent magnetic nanoparticles. *Journal of the American Chemical Society*, **2008**, 130, 3710-1	16.4	218
549	Magnetic-dipolar-interaction-induced self-assembly affords wires of hollow nanocrystals of cobalt selenide. *Angewandte Chemie - International Edition*, **2006**, 45, 1220-3	16.4	213
548	Thermoremanence and zero-field-cooled/field-cooled magnetization study of Cox(SiO2)1 granular films. *Physical Review B*, **2002**, 65,	3.3	212
547	Martensitic transformation and shape memory effect in ferromagnetic Heusler alloy Ni2FeGa. *Applied Physics Letters*, **2003**, 82, 424-426	3.4	208
546	A biocompatible method of decorporation: bisphosphonate-modified magnetite nanoparticles to remove uranyl ions from blood. *Journal of the American Chemical Society*, **2006**, 128, 13358-9	16.4	205
545	Magnetic field-induced martensitic transformation and large magnetoresistance in NiCoMnSb alloys. *Applied Physics Letters*, **2007**, 90, 242501	3.4	198
544	Tunable magnetocaloric effect in ceramic perovskites. *Applied Physics Letters*, **1998**, 73, 390-392	3.4	189
543	Magnetic, structural, and transport properties of the Heusler alloys Co2MnSi and NiMnSb. *Physical Review B*, **2003**, 68,	3.3	185
542	Large Dielectric Constant Enhancement in MXene Percolative Polymer Composites. *ACS Nano*, **2018**, 12, 3369-3377	16.7	181
541	Low-temperature plasma-enhanced atomic layer deposition of tin oxide electron selective layers for highly efficient planar perovskite solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 12080-12087	13	175
540	Magnetic properties of Mn doped ZnO tetrapod structures. *Applied Physics Letters*, **2004**, 84, 756-758	3.4	170
539	Four-Terminal All-Perovskite Tandem Solar Cells Achieving Power Conversion Efficiencies Exceeding 23%. *ACS Energy Letters*, **2018**, 3, 305-306	20.1	169
538	Understanding and Eliminating Hysteresis for Highly Efficient Planar Perovskite Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1700414	21.8	162

537	Martensitic transformation and shape memory effect in a ferromagnetic shape memory alloy: Mn2NiGa. *Applied Physics Letters*, **2005**, 87, 262504	3.4	161
536	Evidence for topological type-II Weyl semimetal WTe. *Nature Communications*, **2017**, 8, 2150	17.4	160
535	Fluorescent magnetic nanocrystals by sequential addition of reagents in a one-pot reaction: a simple preparation for multifunctional nanostructures. *Journal of the American Chemical Society*, **2007**, 129, 11928-35	16.4	155
534	In situ growth of double-layer MoO3/MoS2 film from MoS2 for hole-transport layers in organic solar cell. *Journal of Materials Chemistry A*, **2014**, 2, 2742	13	152
533	Thermally activated and field-tuned tunneling in Mn12Ac studied by ac magnetic susceptibility. *Physical Review B*, **1997**, 55, 11448-11456	3.3	148
532	Broadband locally resonant sonic shields. *Applied Physics Letters*, **2003**, 83, 5566-5568	3.4	145
531	Role of point defects in room-temperature ferromagnetism of Cr-doped ZnO. *Applied Physics Letters*, **2007**, 91, 072511	3.4	144
530	A Centrosymmetric Hexagonal Magnet with Superstable Biskyrmion Magnetic Nanodomains in a Wide Temperature Range of 100-340 K. *Advanced Materials*, **2016**, 28, 6887-93	24	142
529	Electrospun PEDOT:PSSPVA nanofiber based ultrahigh-strain sensors with controllable electrical conductivity. *Journal of Materials Chemistry*, **2011**, 21, 18962		142
528	Enhanced multiferroic properties of the high-valence Pr doped BiFeO3 thin film. *Applied Physics Letters*, **2008**, 93, 182909	3.4	135
527	Realization of magnetic field-induced reversible martensitic transformation in NiCoMnGa alloys. *Applied Physics Letters*, **2007**, 91, 102507	3.4	135
526	Multidirection Piezoelectricity in Mono- and Multilayered Hexagonal nSe. *ACS Nano*, **2018**, 12, 4976-4983	13.7	133
525	Synergistic Interlayer and Defect Engineering in VS Nanosheets toward Efficient Electrocatalytic Hydrogen Evolution Reaction. *Small*, **2018**, 14, 1703098	11	133
524	Water Vapor Treatment of Low-Temperature Deposited SnO2 Electron Selective Layers for Efficient Flexible Perovskite Solar Cells. *ACS Energy Letters*, **2017**, 2, 2118-2124	20.1	130
523	Hydroxyl-Dependent Evolution of Oxygen Vacancies Enables the Regeneration of BiOCl Photocatalyst. *ACS Applied Materials & Interfaces*, **2017**, 9, 16620-16626	9.5	129
522	Room-Temperature Ferroelectricity in Hexagonally Layered n2Se3 Nanoflakes down to the Monolayer Limit. *Advanced Functional Materials*, **2018**, 28, 1803738	15.6	127
521	Magnetic entropy change in Fe-based compound LaFe10.6Si2.4. *Applied Physics Letters*, **2000**, 77, 3072-3074	3.4	125
520	Nanocluster-Containing Mesoporous Magnetoceramics from Hyperbranched Organometallic Polymer Precursors *Chemistry of Materials*, **2000**, 12, 2617-2624	9.6	120

519	Quantum Tunneling of Magnetization in Nanostructured Materials. *Chemistry of Materials*, **1996**, 8, 1784-1792	9.6	120
518	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. *Science Advances*, **2019**, 5, eaaw8904	14.3	119
517	Fabrication of Silica Nanoparticles with Both Efficient Fluorescence and Strong Magnetization and Exploration of Their Biological Applications. *Advanced Functional Materials*, **2011**, 21, 1733-1740	15.6	118
516	Macroscopic Resonant Tunneling of Magnetization in Ferritin. *Physical Review Letters*, **1997**, 79, 1754-1757	7.4	118
515	Synthesis, Crystal Structure, and Photophysical and Magnetic Properties of Dimeric and Polymeric Lanthanide Complexes with Benzoic Acid and Its Derivatives. *European Journal of Inorganic Chemistry*, **2003**, 2003, 149-163	2.3	118
514	Observation of Various and Spontaneous Magnetic Skyrmionic Bubbles at Room Temperature in a Frustrated Kagome Magnet with Uniaxial Magnetic Anisotropy. *Advanced Materials*, **2017**, 29, 1701144	24	117
513	Enzymatic Assemblies Disrupt the Membrane and Target Endoplasmic Reticulum for Selective Cancer Cell Death. *Journal of the American Chemical Society*, **2018**, 140, 9566-9573	16.4	117
512	Ferroelectric memristor based on Pt/BiFeO3/Nb-doped SrTiO3 heterostructure. *Applied Physics Letters*, **2013**, 102, 102901	3.4	117
511	Evidence for resonant tunneling of magnetization in Mn12sacetate complex. *Physical Review B*, **1997**, 55, 5858-5865	3.3	117
510	Fabrication and magnetic properties of ultrathin Fe nanowire arrays. *Applied Physics Letters*, **2003**, 83, 3341-3343	3.4	116
509	Unexpected assembly of a unique cyano-bridged three-dimensional Cu3Cr2 ferromagnet. *Journal of the American Chemical Society*, **2001**, 123, 11809-10	16.4	113
508	Magnetic entropy change in RCoAl (R = Gd, Tb, Dy, and Ho) compounds: candidate materials for providing magnetic refrigeration in the temperature range 10 K to 100 K. *Journal of Physics Condensed Matter*, **2001**, 13, L747-L752	1.8	110
507	Emerging new phase boundary in potassium sodium-niobate based ceramics. *Chemical Society Reviews*, **2020**, 49, 671-707	58.5	109
506	Giant magnetothermal conductivity in the NiMnIn ferromagnetic shape memory alloys. *Applied Physics Letters*, **2007**, 91, 012510	3.4	108
505	High-flux water desalination with interfacial salt sieving effect in nanoporous carbon composite membranes. *Nature Nanotechnology*, **2018**, 13, 345-350	28.7	106
504	Production of COx-free hydrogen and nanocarbon by direct decomposition of undiluted methane on NiCuAlumina catalysts. *Applied Catalysis A: General*, **2004**, 269, 179-186	5.1	105
503	Combined giant inverse and normal magnetocaloric effect for room-temperature magnetic cooling. *Physical Review B*, **2007**, 76,	3.3	98
502	p-type transparent conducting oxides. *Physica Status Solidi (A) Applications and Materials Science*, **2006**, 203, 1891-1900	1.6	98

501	ZnSe nanowires epitaxially grown on GaP(111) substrates by molecular-beam epitaxy. *Applied Physics Letters*, **2003**, 83, 2665-2667	3.4	97
500	Training effect of exchange bias in Fe2O3 coated Fe nanoparticles. *Physical Review B*, **2004**, 69,	3.3	96
499	Large room-temperature spin-dependent tunneling magnetoresistance in polycrystalline Fe3O4 films. *Applied Physics Letters*, **2003**, 83, 3531-3533	3.4	95
498	Giant exchange bias and the vertical shifts of hysteresis loops in Fe2O3-coated Fe nanoparticles. *Journal of Applied Physics*, **2004**, 95, 5244-5246	2.5	92
497	Strain engineering in monolayer WS2, MoS2, and the WS2/MoS2 heterostructure. *Applied Physics Letters*, **2016**, 109, 173105	3.4	92
496	High-Efficiency Dielectric Metasurfaces for Polarization-Dependent Terahertz Wavefront Manipulation. *Advanced Optical Materials*, **2018**, 6, 1700773	8.1	92
495	Enhanced visible-light activity of titania via confinement inside carbon nanotubes. *Journal of the American Chemical Society*, **2011**, 133, 14896-9	16.4	91
494	Recent progress and perspectives of gas sensors based on vertically oriented ZnO nanomaterials. *Advances in Colloid and Interface Science*, **2019**, 270, 1-27	14.3	89
493	Top-Gate Low-Threshold Voltage $phbox{-}hbox{Cu}_{2} hbox{O}$ Thin-Film Transistor Grown on $hbox{SiO}_{2}/ hbox{Si}$ Substrate Using a High-$kappa$ HfON Gate Dielectric. *IEEE Electron Device Letters*, **2010**, 31, 827-829	4.4	85
492	Effect of Seed Layer on Structural Properties of ZnO Nanorod Arrays Grown by Vapor-Phase Transport. *Journal of Physical Chemistry C*, **2008**, 112, 990-995	3.8	85
491	Giant magnetocaloric effect in isostructural MnNiGe-CoNiGe system by establishing a Curie-temperature window. *Applied Physics Letters*, **2013**, 102, 122405	3.4	84
490	Exchange bias and the origin of magnetism in Mn-doped ZnO tetrapods. *Applied Physics Letters*, **2004**, 85, 2589-2591	3.4	84
489	Efficiency and stability enhancement of perovskite solar cells by introducing CsPbI3 quantum dots as an interface engineering layer. *NPG Asia Materials*, **2018**, 10, 552-561	10.3	82
488	Néel-type skyrmion in WTe/FeGeTe van der Waals heterostructure. *Nature Communications*, **2020**, 11, 3860	17.4	81
487	Nonthermal viscosity in magnets: Quantum tunneling of the magnetization (invited). *Journal of Applied Physics*, **1993**, 73, 6709-6714	2.5	78
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485	Plasmonic percolation: plasmon-manifested dielectric-to-metal transition. *ACS Nano*, **2012**, 6, 7162-71	16.7	76
484	Intrinsic point defects in inorganic perovskite CsPbI3 from first-principles prediction. *Applied Physics Letters*, **2017**, 111, 162106	3.4	75

483	Large linear magnetoresistance and Shubnikov-de Hass oscillations in single crystals of YPdBi Heusler topological insulators. *Scientific Reports*, **2013**, 3, 2181	4.9	75
482	Magnetic entropy change in La(Fe0.98Co0.02)11.7Al1.3. *Journal of Physics Condensed Matter*, **2000**, 12, L691-L696	1.8	75
481	Quantum relaxation in random magnets. *Physical Review B*, **1993**, 47, 14977-14987	3.3	75
480	Large magnetic entropy change in TbAl2 and (Tb0.4Gd0.6)Al2. *Applied Physics Letters*, **2000**, 77, 1360-1362	3.4	74
479	Efficient and Stable Perovskite Solar Cells Prepared in Ambient Air Based on Surface-Modified Perovskite Layer. *Journal of Physical Chemistry C*, **2017**, 121, 6546-6553	3.8	70
478	Hollow CoP nanoflowers assembled from nanorods for ultralong cycle-life supercapacitors. *Nanoscale*, **2017**, 9, 14162-14171	7.7	70
477	Structures and magnetism of two novel heptanuclear lanthanide-centered trigonal prismatic clusters: [LnCu6(mu 3-OH)3(HL)2(L)4](ClO4)2.25H2O (Ln = La, Tb; H2L = iminodiacetic acid). *Inorganic Chemistry*, **2000**, 39, 2488-92	5.1	70
476	Stable Organic–Inorganic Perovskite Solar Cells without Hole-Conductor Layer Achieved via Cell Structure Design and Contact Engineering. *Advanced Functional Materials*, **2016**, 26, 4866-4873	15.6	70
475	Magnetic properties, relaxation, and quantum tunneling in CoFe2O4 nanoparticles embedded in potassium silicate. *Physical Review B*, **1996**, 54, 4101-4106	3.3	69
474	Highly Stable Aqueous Zinc-Ion Storage Using a Layered Calcium Vanadium Oxide Bronze Cathode. *Angewandte Chemie*, **2018**, 130, 4007-4012	3.6	68
473	Surface chemical bonding states and ferroelectricity of Ce-doped BiFeO3 thin films prepared by sol–gel process. *Journal of Sol-Gel Science and Technology*, **2008**, 48, 261-266	2.3	68
472	Modulation-Doped In O /ZnO Heterojunction Transistors Processed from Solution. *Advanced Materials*, **2017**, 29, 1605837	24	67
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470	Anisotropic magnetocaloric effect in nanostructured magnetic clusters. *Physical Review Letters*, **2001**, 87, 157203	7.4	66
469	Shell/core structure and magnetic properties of carbon-coated Fe-Co(C) nanocapsules. *Journal of Physics Condensed Matter*, **2001**, 13, 1921-1929	1.8	66
468	Ultraviolet electroluminescence from ZnO/NiO-based heterojunction light-emitting diodes. *Applied Physics Letters*, **2009**, 95, 013509	3.4	65
467	Enhanced photovoltaic performance of polymer solar cells by adding fullerene end-capped polyethylene glycol. *Journal of Materials Chemistry*, **2011**, 21, 6848		64
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465	Unprecedentedly Wide Curie-Temperature Windows as Phase-Transition Design Platform for Tunable Magneto-Multifunctional Materials. *Advanced Electronic Materials*, **2015**, 1, 1500076	6.4	63
464	Zero-biased near-ultraviolet and visible photodetector based on ZnO nanorods/n-Si heterojunction. *Applied Physics Letters*, **2009**, 94, 063512	3.4	63
463	Is Heusler compound Co2CrAl a half-metallic ferromagnet: electronic band structure, and transport properties. *Journal of Magnetism and Magnetic Materials*, **2004**, 277, 130-135	2.8	63
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446	Direct writing of room temperature and zero field skyrmion lattices by a scanning local magnetic field. *Applied Physics Letters*, **2018**, 112, 132405	3.4	54
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444	One-pot synthesis of three-dimensional silver-embedded porous silicon micronparticles for lithium-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 17083		54
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442	Hierarchical Hollow Spheres of ZnO and Zn1−xCoxO: Directed Assembly and Room-Temperature Ferromagnetism. *Crystal Growth and Design*, **2010**, 10, 177-183	3.5	53
441	Magnetic entropy change and its temperature variation in compounds La(Fe1−xCox)11.2Si1.8. *Journal of Applied Physics*, **2002**, 92, 3620-3623	2.5	53
440	High-Performance Amorphous Indium Gallium Zinc Oxide Thin-Film Transistors With $hbox{HfO}_{x}hbox{N}_{y}/hbox{HfO}_{2}/hbox{HfO}_{x}hbox{N}_{y}$ Tristack Gate Dielectrics. *IEEE Electron Device Letters*, **2011**, 32, 42-44	4.4	52
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428	Creation of Single Chain of Nanoscale Skyrmion Bubbles with Record-High Temperature Stability in a Geometrically Confined Nanostripe. *Nano Letters*, **2018**, 18, 1274-1279	11.5	44
427	Improved Subthreshold Swing and Gate-Bias Stressing Stability of p-Type $hbox{Cu}_{2}hbox{O}$ Thin-Film Transistors Using a $hbox{HfO}_{2}$ High- k Gate Dielectric Grown on a $hbox{SiO}_{2}/hbox{Si}$ Substrate by Pulsed Laser Ablation. *IEEE Transactions on Electron Devices*, **2011**, 58, 2003-2007	2.9	44
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425	Anomalous Li Storage Capability in Atomically Thin Two-Dimensional Sheets of Nonlayered MoO. *Nano Letters*, **2018**, 18, 1506-1515	11.5	43
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422	High electron mobility and large magnetoresistance in the half-Heusler semimetal LuPtBi. *Physical Review B*, **2015**, 92,	3.3	42
421	Thickness dependence of magnetic and magneto-transport properties of polycrystalline Fe3O4films prepared by reactive sputtering at room temperature. *Journal Physics D: Applied Physics* , **2003**, 36, 2950-2953	3	42
420	Anatomy of Skyrmionic Textures in Magnetic Multilayers. *Advanced Materials*, **2019**, 31, e1807683	24	41
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413	Van der Waals epitaxial growth of MoS2 on SiO2/Si by chemical vapor deposition. *RSC Advances*, **2013**, 3, 17287	3.7	39
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