xixiang Zhang

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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−xInx 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

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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:PSS/PVA 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 ⅢnSe. *ACS Nano*, **2018**, 12, 4976-4983	16.7	133
525	Synergistic Interlayer and Defect Engineering in VS Nanosheets toward Efficient Electrocatalytic Hydrogen Evolution Reaction. *Small*, **2018**, 14, 1703098	11	133
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522	Room-Temperature Ferroelectricity in Hexagonally Layered Ⅲn2Se3 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

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518	Current-driven magnetization switching in a van der Waals ferromagnet FeGeTe. *Science Advances*, **2019**, 5, eaaw8904	14.3	119
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516	Macroscopic Resonant Tunneling of Magnetization in Ferritin. *Physical Review Letters*, **1997**, 79, 1754-1757	7.4	118
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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
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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
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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
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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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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
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