Rong-kun Zheng

List of Publications by Year in Descending Order

252 papers	7,783 citations	44 h-index	79 g-index
273 ext. papers	8,943 ext. citations	6.2 avg, IF	6.02 L-index

#	Paper	IF	Citations
252	Atom probe tomography of nanomaterials **2022**,		
251	Atomic and Molecular Hydrogen Impurities in Hybrid Perovskite Solar Cells. *Journal of Physical Chemistry C*, **2022**, 126, 1721-1728	3.8	0
250	Ultrasonic-assisted polyaniline-multiwall carbon nanotube photocatalyst for efficient photodegradation of organic pollutants. *Journal of Water Process Engineering*, **2022**, 46, 102557	6.7	4
249	Water-based asymmetric supercapacitors with 2.5 V wide potential and high energy density based on Na0.6CoO2 nanoarray formed via electrochemical oxidation. *Carbon*, **2022**, 189, 81-92	10.4	1
248	Ti3C2Tx MXene based hybrid electrodes for wearable supercapacitors with varied deformation capabilities. *Chemical Engineering Journal*, **2022**, 429, 132232	14.7	3
247	Incorporating plasmonic Au-nanoparticles into three-dimensionally ordered macroporous perovskite frameworks for efficient photocatalytic CO2 reduction. *Chemical Engineering Journal*, **2022**, 429, 132137	14.7	8
246	Ordered Mesoporous Boron Carbon Nitrides with Tunable Mesopore Nanoarchitectonics for Energy Storage and CO Adsorption Properties.. *Advanced Science*, **2022**, e2105603	13.6	2
245	An ultraviolet self-initiated polymerized platform for specific recognition and elimination of caffeic acid based on the molecular imprinting technology. *Sensors and Actuators B: Chemical*, **2022**, 361, 131659	8.5	1
244	Solution-processed perovskite crystals for electronics: Moving forward. *Matter*, **2022**, 5, 1700-1733	12.7	1
243	Atom probe specimen preparation methods for nanoparticles. *Ultramicroscopy*, **2021**, 233, 113420	3.1	
242	Boosting Oxygen Reduction Activity of Manganese Oxide Through Strain Effect Caused By Ion Insertion. *Small*, **2021**, e2105201	11	4
241	Hydrogen-Anion-Induced Carrier Recombination in MAPbI Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2021**, 12, 10677-10683	6.4	3
240	Engineering Nanostructure-Interface of Photoanode Materials Toward Photoelectrochemical Water Oxidation. *Advanced Materials*, **2021**, 33, e2005389	24	23
239	First-principles investigation of intrinsic point defects in perovskite CsSnBr3. *Physical Review Materials*, **2021**, 5,	3.2	5
238	Facile Fabrication of Hybrid Perovskite Single-Crystalline Photocathode for Photoelectrochemical Water Splitting. *Energy Technology*, **2021**, 9, 2000965	3.5	3
237	Engineering Co Vacancies for Tuning Electrical Properties of p-Type Semiconducting CoO Films. *ACS Applied Materials & Interfaces*, **2021**, 13, 26621-26629	9.5	3
236	Electrode-induced impurities in tin halide perovskite solar cell material CsSnBr3 from first principles. *Npj Computational Materials*, **2021**, 7,	10.9	4

235	Stable tin perovskite solar cells developed via additive engineering. *Science China Materials*, **2021**, 64, 2645-2654	7.1	4
234	Correlation and Improvement of Bimetallic Electronegativity on Metal□Organic Frameworks for Electrocatalytic Water Oxidation. *Advanced Energy and Sustainability Research*, **2021**, 2, 2100055	1.6	1
233	Enhanced photoelectrochemical water-splitting performance with a hierarchical heterostructure: Co3O4 nanodots anchored TiO2@P-C3N4 core-shell nanorod arrays. *Chemical Engineering Journal*, **2021**, 404, 126458	14.7	26
232	Charge Transport Properties of Methylammonium Lead Trihalide Hybrid Perovskite Bulk Single Crystals. *Physica Status Solidi - Rapid Research Letters*, **2021**, 15, 2000410	2.5	1
231	Controllable synthesis of Ni1-xCoxMoO4 with tunable morphologies for high-performance asymmetric supercapacitors. *Journal of Alloys and Compounds*, **2021**, 850, 156734	5.7	15
230	FeS2 bridging function to enhance charge transfer between MoS2 and g□3N4 for efficient hydrogen evolution reaction. *Chemical Engineering Journal*, **2021**, 421, 127804	14.7	17
229	Understanding the role of facets and twin defects in the optical performance of GaAs nanowires for laser applications. *Nanoscale Horizons*, **2021**, 6, 559-567	10.8	3
228	Stable tin perovskite solar cells enabled by widening the time window for crystallization. *Science China Materials*, **2021**, 64, 1849-1857	7.1	5
227	Multigraded Heterojunction Hole Extraction Layer of ZIF-CoxZn1□ on Co3O4/TiO2 Skeleton for a New Photoanode Architecture in Water Oxidation. *Small Science*, **2021**, 1, 2000033		7
226	Solution Epitaxy of Halide Perovskite Thin Single Crystals for Stable Transistors. *ACS Applied Materials & Interfaces*, **2021**, 13, 37840-37848	9.5	2
225	Hydrothermal Syntheses of Uranium Oxide Hydrate Materials with Sm(III) Ions: pH-Driven Diversities in Structures and Morphologies and Sm-Doped Porous Uranium Oxides Derived from Their Thermal Decompositions. *Inorganic Chemistry*, **2021**, 60, 13233-13241	5.1	0
224	Light-controlled convergence of photogenerated carriers and reactants to boost photocatalytic performance. *Journal of Catalysis*, **2021**, 400, 1-9	7.3	2
223	An investigation of LnUO4 (Ln = Dy and Ho): Structures, microstructures, uranium valences and magnetic properties. *Journal of the European Ceramic Society*, **2021**, 41, 6000-6009	6	2
222	Plasmon-enhanced alcohol oxidations over porous carbon nanosphere-supported palladium and gold bimetallic nanocatalyst. *Applied Catalysis B: Environmental*, **2021**, 292, 120151	21.8	6
221	Fabrication of MOFs□derivatives assisted perovskite nanocrystal on TiO2 photoanode for photoelectrochemical glycerol oxidation with simultaneous hydrogen production. *Applied Catalysis B: Environmental*, **2021**, 296, 120382	21.8	5
220	Towards fluorinated Ruddlesden□Popper perovskites with enhanced physical properties: a study on (3-FC6H4CH2CH2NH3)2PbI4 single crystals. *Materials Chemistry Frontiers*, **2021**, 5, 4645-4657	7.8	0
219	Cobalt and vanadium co-doped FeOOH nanoribbons: an iron-rich electrocatalyst for efficient water oxidation. *Materials Chemistry Frontiers*, **2021**, 5, 6485-6490	7.8	3
218	Bi2Se3@C Rod-like Architecture with Outstanding Electrochemical Properties in Lithium/Potassium-Ion Batteries. *ACS Applied Energy Materials*, **2020**, 3, 11073-11081	6.1	22

217	Construction of hierarchical Cu2+1O@NiCoAl-layered double hydroxide nanorod arrays electrode for high-performance supercapacitor. *Journal of Alloys and Compounds*, **2020**, 835, 155321	5.7	16
216	Layer-structured uranyl-oxide hydroxy-hydrates with Pr(iii) and Tb(iii) ions: hydroxyl to oxo transition driven by interlayer cations. *Dalton Transactions*, **2020**, 49, 5832-5841	4.3	6
215	Bridging metal-ion induced vertical growth of MoS2 and overall fast electron transfer in (C,P)3N4-M (Ni2+, Co2+)-MoS2 electrocatalyst for efficient hydrogen evolution reaction. *Sustainable Materials and Technologies*, **2020**, 25, e00172	5.3	3
214	Electric-field-mediated magnetic properties of all-oxide CoFeO/LaSrMnO/Pb(MgNb)TiO heterostructures. *Physical Chemistry Chemical Physics*, **2020**, 22, 12651-12657	3.6	
213	Large anisotropy of magnetic damping in amorphous CoFeB films on GaAs(001). *Journal of Physics Condensed Matter*, **2020**, 32, 335804	1.8	4
212	Amorphous nonstoichiometric oxides with tunable room-temperature ferromagnetism and electrical transport. *Science Bulletin*, **2020**, 65, 1718-1725	10.6	1
211	Preparation of CoS supported flower-like NiFe layered double hydroxides nanospheres for high-performance supercapacitors. *Journal of Colloid and Interface Science*, **2020**, 579, 607-618	9.3	16
210	Two-dimensional organic□inorganic hybrid Ruddlesden□Popper perovskite materials: preparation, enhanced stability, and applications in photodetection. *Sustainable Energy and Fuels*, **2020**, 4, 2087-2113	5.8	20
209	Porous carbon prepared via combustion and acid treatment as flexible zinc-ion capacitor electrode material. *Chemical Engineering Journal*, **2020**, 387, 124161	14.7	73
208	Bimetal-organic framework derived Cu(NiCo)S/NiS electrode material with hierarchical hollow heterostructure for high performance energy storage. *Journal of Colloid and Interface Science*, **2020**, 565, 295-304	9.3	22
207	A three-dimensional and porous bi-nanospheres electrocatalytic system constructed by in situ generation of Ru nanoclusters inside and outside polydopamine nanoparticles for highly efficient hydrogen evolution reaction. *International Journal of Hydrogen Energy*, **2020**, 45, 6592-6603	6.7	9
206	Carbon-Coating Layers on Boron Generated High Critical Current Density in MgB Superconductor. *ACS Applied Materials & Interfaces*, **2020**, 12, 8563-8572	9.5	6
205	Electric control of exchange bias in Co/FeOx bilayer by resistive switching. *AIP Advances*, **2020**, 10, 015306	1.5	2
204	Electrocatalysts Based on Transition Metal Borides and Borates for the Oxygen Evolution Reaction. *Chemistry - A European Journal*, **2020**, 26, 11661-11672	4.8	20
203	Effects of Illumination and Ferroelectric Field on Nanoscale Al:ZnO Films: Implications for Nonvolatile Multistage Storage and Photosensor Devices. *ACS Applied Nano Materials*, **2020**, 3, 6054-6060	5.6	1
202	CHAPTER 4:Halide Perovskites With Ambipolar Transport Properties for Transistor Applications. *RSC Smart Materials*, **2020**, 41-82	0.6	2
201	High mobility in □phosphorene isostructures with low deformation potential. *Physical Chemistry Chemical Physics*, **2020**, 22, 2276-2282	3.6	5
200	Nanoscale pathways for human tooth decay - Central planar defect, organic-rich precipitate and high-angle grain boundary. *Biomaterials*, **2020**, 235, 119748	15.6	15

199	ITO regulated high-performance n-Si/ITO/Fe2O3 Z-scheme heterostructure towards photoelectrochemical water splitting. *Journal of Catalysis*, **2020**, 381, 501-507	7.3	14
198	Quantifying the nucleation effect of correlated matrix grains in sintered Nd-Fe-B permanent magnets. *Journal of Magnetism and Magnetic Materials*, **2020**, 498, 166099	2.8	3
197	Atomic-Level Insights into the Edge Active ReS2 Ultrathin Nanosheets for High-Efficiency Light-to-Hydrogen Conversion **2020**, 2, 1484-1494		35
196	Carbon Nanomaterials for Halide Perovskites-Based Hybrid Photodetectors. *Advanced Materials Technologies*, **2020**, 5, 2000643	6.8	6
195	Effect of cyclic rapid thermal loadings on the microstructural evolution of a CrMnFeCoNi high-entropy alloy manufactured by selective laser melting. *Acta Materialia*, **2020**, 196, 609-625	8.4	42
194	Atomic scale insights into the segregation/partitioning behaviour in as-sintered multi-main-phase Nd-Ce-Fe-B permanent magnets. *Journal of Alloys and Compounds*, **2020**, 846, 156248	5.7	7
193	Low-Dimensional Hybrid Perovskites for Field-Effect Transistors with Improved Stability: Progress and Challenges. *Advanced Electronic Materials*, **2020**, 6, 2000137	6.4	23
192	Uranyl oxide hydrate frameworks with lanthanide ions. *Dalton Transactions*, **2020**, 49, 15854-15863	4.3	4
191	Growth and optimization of hybrid perovskite single crystals for optoelectronics/electronics and sensing. *Journal of Materials Chemistry C*, **2020**, 8, 13918-13952	7.1	11
190	Phonon localization in single wall carbon nanotube: Combined effect of 13C isotope and vacancies. *Journal of Applied Physics*, **2020**, 128, 045108	2.5	1
189	[U(HO)]{[(UO)O(OH)][(UO)(HO)]}: A Mixed-Valence Uranium Oxide Hydrate Framework. *Inorganic Chemistry*, **2020**, 59, 12166-12175	5.1	4
188	Intragranular glass/crystal conjugated particles in strip cast Nd-Fe-B flakes. *Journal of Magnetism and Magnetic Materials*, **2020**, 495, 165863	2.8	1
187	Hierarchical NiMn-layered double hydroxides@CuO core-shell heterostructure in-situ generated on Cu(OH)2 nanorod arrays for high performance supercapacitors. *Chemical Engineering Journal*, **2020**, 380, 122486	14.7	115
186	Multilayer NiMn layered double hydroxide nanosheets covered porous Co3O4 nanowire arrays with hierarchical structure for high-performance supercapacitors. *Journal of Power Sources*, **2019**, 440, 227123	8.9	46
185	Negative Poisson's ratio in 2D life-boat structured crystals. *Nanoscale Advances*, **2019**, 1, 1117-1123	5.1	7
184	Enhancement of Anomalous Hall Effect via Interfacial Scattering in Metal-Organic Semiconductor Fex(C60)1 Granular Films Near the Metal-Insulator Transition. *Advanced Functional Materials*, **2019**, 29, 1808747	15.6	5
183	Atomically Dispersed Single Co Sites in Zeolitic Imidazole Frameworks Promoting High-Efficiency Visible-Light-Driven Hydrogen Production. *Chemistry - A European Journal*, **2019**, 25, 9670-9677	4.8	7
182	Magnetoresistance Crossover in Cobalt/Poly(3-hexylthiophene,2,5-diyl) Hybrid Films Due to the Interface Effect. *Physical Review Applied*, **2019**, 11,	4.3	2

181	MOF derived Ni-Co-S nanosheets on electrochemically activated carbon cloth via an etching/ion exchange method for wearable hybrid supercapacitors. *Chemical Engineering Journal*, **2019**, 371, 461-469	14.7	145
180	Extrinsic Two-Dimensional Flux Pinning Centers in MgB Superconductors Induced by Graphene-Coated Boron. *ACS Applied Materials & Interfaces*, **2019**, 11, 10818-10828	9.5	13
179	Bimetallic metal-organic frameworks derived Ni-Co-Se@C hierarchical bundle-like nanostructures with high-rate pseudocapacitive lithium ion storage. *Energy Storage Materials*, **2019**, 17, 374-384	19.4	87
178	Encapsulating MnSe Nanoparticles Inside 3D Hierarchical Carbon Frameworks with Lithium Storage Boosted by in Situ Electrochemical Phase Transformation. *ACS Applied Materials & Interfaces*, **2019**, 11, 33022-33032	9.5	28
177	Zn-Ni-Co trimetallic carbonate hydroxide nanothorns branched on Cu(OH)2 nanorods array based on Cu foam for high-performance asymmetric supercapacitors. *Journal of Power Sources*, **2019**, 437, 226897	8.9	71
176	Recent Progress on Cesium Lead Halide Perovskites for Photodetection Applications. *ACS Applied Electronic Materials*, **2019**, 1, 1348-1366	4	28
175	Artificial 2D Flux Pinning Centers in MgB2 Induced by Graphitic-Carbon Nitride Coated on Boron for Superconductor Applications. *ACS Applied Nano Materials*, **2019**, 2, 5399-5408	5.6	3
174	Effect of Cyclic Thermal Loadings on the Microstructural Evolution of a Cantor Alloy in 3D Printing Processes. *Microscopy and Microanalysis*, **2019**, 25, 2568-2569	0.5	1
173	Confinement-Induced Giant Spin-Orbit-Coupled Magnetic Moment of Co Nanoclusters in TiO Films. *ACS Applied Materials & Interfaces*, **2019**, 11, 43781-43788	9.5	3
172	Defects induced huge magnetoresistance in epitaxial La1−SrxMnO3 thin films deposited by magnetic sputtering. *Applied Physics Letters*, **2019**, 115, 182405	3.4	4
171	Quantitative Determination of How Growth Conditions Affect the 3D Composition of InGaAs Nanowires. *Microscopy and Microanalysis*, **2019**, 25, 524-531	0.5	1
170	Post-imprinting modification based on multilevel mesoporous silica for highly sensitive molecularly imprinted fluorescent sensors. *Analyst, The*, **2019**, 144, 6283-6290	5	4
169	Non-destructive analysis on nano-textured surface of the vertical LED for light enhancement. *Ultramicroscopy*, **2019**, 196, 1-9	3.1	3
168	Strain-Engineered Ultrahigh Mobility in Phosphorene for Terahertz Transistors. *Advanced Electronic Materials*, **2019**, 5, 1800797	6.4	12
167	In-situ synthesis of Ni-Co-S nanoparticles embedded in novel carbon bowknots and flowers with pseudocapacitance-boosted lithium ion storage. *Nanotechnology*, **2019**, 30, 155701	3.4	5
166	Attractive-domain-wall-pinning controlled Sm-Co magnets overcome the coercivity-remanence trade-off. *Acta Materialia*, **2019**, 164, 196-206	8.4	45
165	2D Metal Organic Framework Nanosheet: A Universal Platform Promoting Highly Efficient Visible-Light-Induced Hydrogen Production. *Advanced Energy Materials*, **2019**, 9, 1803402	21.8	144
164	Study of microstructure and magnetotransport properties of CrO2 prepared under HTHP. *Journal of Magnetism and Magnetic Materials*, **2018**, 453, 193-197	2.8	2

163	Visible-Light-Triggered Reactive-Oxygen-Species-Mediated Antibacterial Activity of Peroxidase-Mimic CuO Nanorods. *ACS Applied Nano Materials*, **2018**, 1, 1694-1704	5.6	94
162	TiO2P3HT:PCBM photoelectrochemical tandem cells for solar-driven overall water splitting. *Journal of Materials Chemistry A*, **2018**, 6, 4032-4039	13	20
161	Enhanced photocatalytic performances and magnetic recovery capacity of visible-light-driven Z-scheme ZnFe2O4/AgBr/Ag photocatalyst. *Applied Surface Science*, **2018**, 440, 99-106	6.7	42
160	Crystal Facet Effects on Nanomagnetism of CoO. *ACS Applied Materials & Interfaces*, **2018**, 10, 19235-19247	9.5	21
159	Magnetic coupling in Mn3O4-coated MnOOH nanowires. *Surface Innovations*, **2018**, 6, 250-257	1.9	2
158	Interfacial effects on the microstructures and magnetoresistance of Ni80Fe20/P3HT/Fe organic spin valves. *Journal of Alloys and Compounds*, **2018**, 769, 991-997	5.7	5
157	Intrinsic or Interface Clustering-Induced Ferromagnetism in Fe-Doped InO-Diluted Magnetic Semiconductors. *ACS Applied Materials & Interfaces*, **2018**, 10, 22372-22380	9.5	19
156	Full Electric Control of Exchange Bias at Room Temperature by Resistive Switching. *Advanced Materials*, **2018**, 30, e1801885	24	29
155	Coercivity degradation caused by inhomogeneous grain boundaries in sintered Nd-Fe-B permanent magnets. *Physical Review Materials*, **2018**, 2,	3.2	2
154	In situ growth of ZnO nanodots on carbon hierarchical hollow spheres as high-performance electrodes for lithium-ion batteries. *Journal of Alloys and Compounds*, **2018**, 735, 1079-1087	5.7	29
153	Metallic MoN ultrathin nanosheets boosting high performance photocatalytic H2 production. *Journal of Materials Chemistry A*, **2018**, 6, 23278-23282	13	27
152	Characterization of Iron Core?Gold Shell Nanoparticles for Anti-Cancer Treatments: Chemical and Structural Transformations During Storage and Use. *Materials*, **2018**, 11,	3.5	8
151	MOF-derived carbon-encapsulated cobalt sulfides orostachys-like micro/nano-structures as advanced anode material for lithium ion batteries. *Electrochimica Acta*, **2018**, 290, 193-202	6.7	32
150	On the metallic bonding of GaN-based vertical light-emitting diode. *Materials Science in Semiconductor Processing*, **2017**, 63, 237-247	4.3	8
149	Hydrothermal synthesis, structures and magnetic properties of two new holmium(III) oxalato complexes. *Journal of Coordination Chemistry*, **2017**, 70, 2040-2051	1.6	3
148	3D Atomic-Scale Insights into Anisotropic Core-Shell-Structured InGaAs Nanowires Grown by Metal-Organic Chemical Vapor Deposition. *Advanced Materials*, **2017**, 29, 1701888	24	13
147	Grain size quantification by optical microscopy, electron backscatter diffraction, and magnetic force microscopy. *Micron*, **2017**, 101, 41-47	2.3	11
146	Enhanced photocatalytic activities of g-C3N4 with large specific surface area via a facile one-step synthesis process. *Carbon*, **2017**, 125, 454-463	10.4	50

145	Magnetic, electrochemical and thermoelectric properties of P2-Nax(Co7/8Sb1/8)O2. *Chemical Physics Letters*, **2017**, 687, 233-237	2.5	7
144	Inducing High Coercivity in MoS2 Nanosheets by Transition Element Doping. *Chemistry of Materials*, **2017**, 29, 9066-9074	9.6	50
143	Syntheses and crystal structures of thorium(IV) and uranium(IV) tripodal metalloligands. *Polyhedron* , **2017**, 138, 82-87	2.7	5
142	Intrinsic and spatially nonuniform ferromagnetism in Co-doped ZnO films. *Physical Review B*, **2017**, 96,	3.3	21
141	Phase evolution from Ln2Ti2O7 (Ln=Y and Gd) pyrochlores to brannerites in glass with uranium incorporation. *Journal of the American Ceramic Society*, **2017**, 100, 5335-5346	3.8	18
140	Microstructural and Texture Evolution of Strip Cast NdFeB Flake. *Crystal Growth and Design*, **2017** , 17, 6550-6558	3.5	10
139	A Spatially Separated Organic–Inorganic Hybrid Photoelectrochemical Cell for Unassisted Overall Water Splitting. *ACS Catalysis*, **2017**, 7, 5308-5315	13.1	24
138	Insights into the Silver Reflection Layer of a Vertical LED for Light Emission Optimization. *ACS Applied Materials & Interfaces*, **2017**, 9, 24259-24272	9.5	10
137	Construction of Z-scheme Cu2O/Cu/AgBr/Ag photocatalyst with enhanced photocatalytic activity and stability under visible light. *Applied Catalysis B: Environmental*, **2017**, 203, 917-926	21.8	107
136	Intrinsic Ferromagnetism in the Diluted Magnetic Semiconductor Co:TiO_{2}. *Physical Review Letters*, **2016**, 117, 227202	7.4	46
135	Atomic-scale compositional mapping reveals Mg-rich amorphous calcium phosphate in human dental enamel. *Science Advances*, **2016**, 2, e1601145	14.3	76
134	Nanostructural Analysis of CMOS-MEMS-Based Digital Microphone for Performance Optimization. *IEEE Nanotechnology Magazine*, **2016**, 15, 849-855	2.6	3
133	Surface plasmon resonance enhanced visible-light-driven photocatalytic activity in Cu nanoparticles covered Cu2O microspheres for degrading organic pollutants. *Applied Surface Science*, **2016**, 366, 120-128	6.7	50
132	Atom Probe Tomography on Semiconductor Devices. *Advanced Materials Interfaces*, **2016**, 3, 1500713	4.6	16
131	Self-assembly of a unique 3d/4f heterometallic square prismatic box-like coordination cage. *Dalton Transactions*, **2016**, 45, 9407-11	4.3	23
130	Direct Observation of Dopants Distribution and Diffusion in GaAs Planar Nanowires with Atom Probe Tomography. *ACS Applied Materials & Interfaces*, **2016**, 8, 26244-26250	9.5	8
129	Electrical control of memristance and magnetoresistance in oxide magnetic tunnel junctions. *Nanoscale*, **2015**, 7, 6334-9	7.7	20
128	Microscopic unravelling of nano-carbon doping in MgB2 superconductors fabricated by diffusion method. *Journal of Alloys and Compounds*, **2015**, 644, 900-905	5.7	15

127	A large spin-crossover [Fe4L4]8+ tetrahedral cage. *Journal of Materials Chemistry C*, **2015**, 3, 7878-7882	7.1	25
126	Methodology exploration of specimen preparation for atom probe tomography from nanowires. *Ultramicroscopy*, **2015**, 159 Pt 2, 427-31	3.1	4
125	Characterisation of nano-grains in MgB2 superconductors by transmission Kikuchi diffraction. *Scripta Materialia*, **2015**, 101, 36-39	5.6	14
124	Performance modulation of □MnO□nanowires by crystal facet engineering. *Scientific Reports*, **2015**, 5, 8987	4.9	67
123	Optical single-sideband modulation based on silicon-on-insulator coupled-resonator optical waveguides. *Optical Engineering*, **2015**, 55, 031114	1.1	15
122	Extraordinary Hall effect and universal scaling in Fex(ZnO)1□ granular thin films at room temperature. *Applied Physics Letters*, **2015**, 106, 012401	3.4	12
121	Atomic-scale tomography of semiconductor nanowires. *Materials Science in Semiconductor Processing*, **2015**, 40, 896-909	4.3	7
120	On the universality of Suzuki segregation in binary Mg alloys from first principles. *Journal of Alloys and Compounds*, **2015**, 620, 38-41	5.7	16
119	Electronic Structure and Ferromagnetism Modulation in Cu/Cu2O Interface: Impact of Interfacial Cu Vacancy and Its Diffusion. *Scientific Reports*, **2015**, 5, 15191	4.9	7
118	Three-Dimensional Smart Catalyst Electrode for Oxygen Evolution Reaction. *Advanced Energy Materials*, **2015**, 5, 1500936	21.8	155
117	Room-temperature ferromagnetism induced by Cu vacancies in Cu x (Cu 2 O) 1□x granular films. *Chinese Physics B*, **2015**, 24, 097504	1.2	
116	On the roles of graphene oxide doping for enhanced supercurrent in MgB2 based superconductors. *Nanoscale*, **2014**, 6, 6166-72	7.7	36
115	Atomic-scale observation of parallel development of super elasticity and reversible plasticity in GaAs nanowires. *Applied Physics Letters*, **2014**, 104, 021904	3.4	22
114	Magnetic properties of fluffy Fe@□Fe2O3 core-shell nanowires. *Nanoscale Research Letters*, **2013**, 8, 423	5	12
113	Quantitative dopant distributions in GaAs nanowires using atom probe tomography. *Ultramicroscopy*, **2013**, 132, 186-92	3.1	27
112	Full tip imaging in atom probe tomography. *Ultramicroscopy*, **2013**, 124, 96-101	3.1	22
111	Hydrogen adsorption capacity of adatoms on double carbon vacancies of graphene: A trend study from first principles. *Physical Review B*, **2013**, 87,	3.3	85
110	Facile synthesis of graphene oxide hybrids bridged by copper ions for increased conductivity. *Journal of Materials Chemistry C*, **2013**, 1, 3084	7.1	44

109	Large coercivity and exchange bias in [Fe1−(FeO)]x(TiO2)1− granular films. *Applied Physics Letters*, **2013**, 102, 192403	3.4	0
108	Room-temperature ferromagnetism in nanocrystalline Cu/Cu2O core-shell structures prepared by magnetron sputtering. *APL Materials*, **2013**, 1, 042106	5.7	14
107	Magnetotransport dependence on the field magnitude and direction in large area epitaxial graphene film on stretchable substrates. *Applied Physics Letters*, **2013**, 102, 092405	3.4	4
106	Graphene based dots and antidots: a comparative study from first principles. *Journal of Nanoscience and Nanotechnology*, **2013**, 13, 1251-5	1.3	1
105	First-principles investigation of electrical and magnetic properties of ZnO based diluted magnetic semiconductors codoped with H. *Journal of Applied Physics*, **2012**, 111, 113901	2.5	5
104	Electrical and thermoelectric properties of single-wall carbon nanotube doped Bi2Te3. *Applied Physics Letters*, **2012**, 101, 031909	3.4	41
103	First principles study of 3d transition metal doped . *Journal of Magnetism and Magnetic Materials*, **2012**, 324, 3138-3143	2.8	36
102	Heterogeneous nucleation of -type precipitates on nanoscale Zr-rich particles in a Mg-6Zn-0.5Cu-0.6Zr alloy. *Nanoscale Research Letters*, **2012**, 7, 300	5	6
101	Single Crystal Kinked ZnO [001] and [110] Nanowires: Synthesis, Characterization, and Growth/Kinking Mechanism. *Crystal Growth and Design*, **2012**, 12, 3153-3157	3.5	6
100	Magnetism of Co-doped ZnO epitaxially grown on a ZnO substrate. *Physical Review B*, **2012**, 85,	3.3	49
99	Microstructural properties of over-doped GaN-based diluted magnetic semiconductors grown by MOCVD. *Journal of Semiconductors*, **2012**, 33, 073002	2.3	1
98	Synthesis of dense, single-crystalline CrO2 nanowire arrays using AAO template-assisted chemical vapor deposition. *Nanotechnology*, **2011**, 22, 125603	3.4	25
97	Microstructure and mechanical properties of Mg-Zn-Cu-0.6Zr (wt.%) alloys. *Journal of Alloys and Compounds*, **2011**, 509, 3526-3531	5.7	44
96	Evaluation of carbon incorporation and strain of doped MgB2 superconductor by Raman spectroscopy. *Scripta Materialia*, **2011**, 64, 323-326	5.6	8
95	Structural and electronic properties of Eu- and Pd-doped ZnO. *Nanoscale Research Letters*, **2011**, 6, 357	5	34
94	Microfluidic spray drying as a versatile assembly route of functional particles. *Chemical Engineering Science*, **2011**, 66, 5531-5531	4.4	15
93	Magic numbers of nanoholes in graphene: Tunable magnetism and semiconductivity. *Physical Review B*, **2011**, 84,	3.3	35
92	Quantification of graphene based core/shell quantum dots from first principles. *Applied Physics Letters*, **2011**, 99, 183102	3.4	4

91	In situ formation of crystalline flakes in Mg-based metallic glass composites by controlled inoculation. *Acta Materialia*, **2011**, 59, 7776-7786	8.4	11
90	Tunable electrical and magnetic properties of half-metallic Zn(x)Fe(3-x)O4 from first principles. *Physical Chemistry Chemical Physics*, **2011**, 13, 21243-7	3.6	19
89	Orientational dependence of multiferroic behaviors of La and Mn modified BiFeO3 thin films **2011**,		1
88	Synthesis and characterization of self-assembled c-axis oriented Bi2Sr3Co2O(y) thin films by the sol-gel method. *Dalton Transactions*, **2011**, 40, 9544-50	4.3	10
87	Application of advanced analytical techniques to study structure□property relationship of hot rolled high strength low alloy steel. *Materials Science and Technology*, **2011**, 27, 305-309	1.5	5
86	Self-Assembly of Gold Nanowires along Carbon Nanotubes for Ultrahigh-Aspect-Ratio Hybrids. *Chemistry of Materials*, **2011**, 23, 2760-2765	9.6	17
85	Valence excitations and dopant distribution of Al doped ZnO nanowires analyzed by electron energy loss spectroscopy. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 10182-6	1.3	4
84	Direct observation of local potassium variation and its correlation to electronic inhomogeneity in (Ba(1-x)K(x))Fe2As2 pnictide. *Physical Review Letters*, **2011**, 106, 247002	7.4	44
83	Structural, electrical, and magnetic properties of polycrystalline Fe3□PtxO4 (0 □x □0.10) films. *Journal of Applied Physics*, **2011**, 109, 073905	2.5	2
82	Raman Spectroscopy: Alternate Method for Strain and Carbon Substitution Study in ${rm MgB}_{2}$. *IEEE Transactions on Applied Superconductivity*, **2011**, 21, 2623-2626	1.8	1
81	Multiferroism in orientational engineered (La, Mn) co-substituted BiFeO3 thin films. *Journal of Applied Physics*, **2011**, 109, 114105	2.5	31
80	The Redistribution and Alignment of Crystalline Flakes in a Bulk Metallic Glass Composite during Thermoplastic Forming. *Materials Science Forum*, **2011**, 702-703, 971-974	0.4	
79	Graphene doping to enhance the flux pinning and supercurrent carrying ability of a magnesium diboride superconductor. *Superconductor Science and Technology*, **2010**, 23, 085003	3.1	39
78	Room-temperature ferromagnetism and the scaling relation between magnetization and average granule size in nanocrystalline Zn/ZnO core-shell structures prepared by sputtering. *Nanotechnology*, **2010**, 21, 145705	3.4	30
77	Growth and Valence Excitations of ZnO:M(Al, In, Sn) Hierarchical Nanostructures. *Journal of Physical Chemistry C*, **2010**, 114, 18031-18036	3.8	11
76	Atom probe microscopy of self-assembled monolayers: preliminary results. *Langmuir*, **2010**, 26, 5291-4	4	26
75	Inverse and normal tunneling magnetoresistance effects in FeCoGd/FeCo/AlO/FeCo multilayers. *Journal of Physics: Conference Series*, **2010**, 200, 052002	0.3	
74	Characterization of the Bake-hardening Behavior of Transformation Induced Plasticity and Dual-phase Steels Using Advanced Analytical Techniques. *ISIJ International*, **2010**, 50, 574-582	1.7	44

73	Direct synthesis and strong cathodoluminescence of Al2O3 nanotubes. *Materials Chemistry and Physics*, **2010**, 120, 240-243	4.4	2
72	Phase redistribution in an in situ Mg-based bulk metallic glass composite during deformation in the supercooled liquid region. *Scripta Materialia*, **2010**, 63, 556-559	5.6	9
71	(00l)-oriented Bi2Sr2Co2Oy and Ca3Co4O9 films: Self-assembly orientation and growth mechanism by chemical solution deposition. *Acta Materialia*, **2010**, 58, 4281-4291	8.4	41
70	Evidence for high-Tc ferromagnetism in Znx(ZnO)1 granular films mediated by native point defects. *Physical Review B*, **2009**, 80,	3.3	64
69	Large extraordinary Hall effect and anomalous scaling relations between the Hall and longitudinal conductivities in Fe3N nanocrystalline films. *Physical Review B*, **2009**, 80,	3.3	25
68	Annealing effects on the structural, magnetic and electrical properties of the nanocrystalline Fe3O4films. *Journal Physics D: Applied Physics*, **2009**, 42, 215004	3	3
67	Controlled synthesis and characterization of 10hm thick Al2O3 nanowires. *Materials Letters*, **2009**, 63, 1016-1018	3.3	13
66	The effect of mesoporous bioactive glass on the physiochemical, biological and drug-release properties of poly(DL-lactide-co-glycolide) films. *Biomaterials*, **2009**, 30, 2199-208	15.6	159
65	In vitro studies of cells grown on the superconductor PrO(x)FeAs. *Micron*, **2009**, 40, 476-9	2.3	
64	On the understanding of the microscopic origin of the properties of diluted magnetic semiconductors by atom probe tomography. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 935-943	2.8	11
63	Extracting anisotropy energy barrier distributions of nanomagnetic systems from magnetization/susceptibility measurements. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, L21-L27	2.8	7
62	Microstructural evolution of spinodally formed Fe35Ni15Mn25Al25. *Intermetallics*, **2009**, 17, 886-893	3.5	25
61	High-density, vertically aligned crystalline CrO(2) nanorod arrays derived from chemical vapor deposition assisted by AAO templates. *Chemical Communications*, **2009**, 3949-51	5.8	7
60	Thermal-strain-induced enhancement of electromagnetic properties of SiCMgB2 composites. *Applied Physics Letters*, **2009**, 94, 042510	3.4	34
59	Synthesis of mesoporous LaPO4nanostructures with controllable morphologies. *New Journal of Chemistry*, **2009**, 33, 1657	3.6	21
58	Stress/Strain Induced Flux Pinning in Highly Dense ${rm MgB}_{2}$ Bulks. *IEEE Transactions on Applied Superconductivity*, **2009**, 19, 2722-2725	1.8	5
57	Investigation of Self-assembled Monolayer by Atom Probe Microscopy. *Microscopy and Microanalysis*, **2009**, 15, 272-273	0.5	29
56	Microscopic bonding mechanism of welding interface with molten CuZn deposited on solid-state steel. *Materials Characterization*, **2008**, 59, 542-546	3.9	9

55	Shape-Controlled Synthesis and Assembly of Copper Sulfide Nanoparticles. *Crystal Growth and Design*, **2008**, 8, 2032-2035	3.5	43
54	Structural, optical and magnetic properties of Co-doped ZnO nanorods with hidden secondary phases. *Nanotechnology*, **2008**, 19, 455702	3.4	79
53	Influence of oxygen partial pressure on the ferromagnetic properties of polycrystalline Cr-doped ZnO films. *Europhysics Letters*, **2008**, 84, 27005	1.6	11
52	THE BEHAVIOR OF GALLIUM CONFINED IN CARBON NANOTUBES DURING HEATING AND COOLING. *Functional Materials Letters*, **2008**, 01, 55-58	1.2	6
51	Ionic Liquid-assisted Synthesis of Polyaniline/Gold Nanocomposite and Its Biocatalytic Application. *Nanoscale Research Letters*, **2008**, 3, 468-472	5	32
50	In Situ Self-Assembly of Thin ZnO Nanoplatelets into Hierarchical Mesocrystal Microtubules with Surface Grafting of Nanorods: A General Strategy towards Hollow Mesocrystal Structures. *Advanced Materials*, **2008**, 20, 339-342	24	91
49	Memory effect and spin-glass-like behavior in Co-Ag granular films. *Physical Review B*, **2007**, 75,	3.3	61
48	Role of point defects in room-temperature ferromagnetism of Cr-doped ZnO. *Applied Physics Letters*, **2007**, 91, 072511	3.4	144
47	Elastic-effects study of charge-ordering transition in La0.25Ca0.75MnO3 perovskite. *Journal of Magnetism and Magnetic Materials*, **2007**, 308, 71-73	2.8	7
46	Precipitate characterisation of an advanced high-strength low-alloy (HSLA) steel using atom probe tomography. *Scripta Materialia*, **2007**, 56, 601-604	5.6	71
45	Thickness dependence of in-plane dielectric and ferroelectric properties of Ba0.7Sr0.3TiO3 thin films epitaxially grown on LaAlO3. *Applied Physics Letters*, **2007**, 90, 132902	3.4	17
44	Characterization of Nano-Scale Particles in Hot-Rolled, High Strength Low Alloy Steels (HSLA). *Materials Science Forum*, **2007**, 561-565, 2083-2086	0.4	3
43	Mechanical magnetoresistance in broken cold-pressed CrO2 powder sample. *Journal of Magnetism and Magnetic Materials*, **2006**, 302, 211-215	2.8	1
42	Self-Assembly and Self-Orientation of Truncated Octahedral Magnetite Nanocrystals. *Advanced Materials*, **2006**, 18, 2418-2421	24	70
41	Microstructure and enhanced in-plane ferroelectricity of Ba0.7Sr0.3TiO3 thin films grown on MgAl2O4 (001) single-crystal substrate. *Applied Physics Letters*, **2006**, 89, 232906	3.4	21
40	Antiferromagnetic-coupling-induced magnetoresistance enhancement in Fex(TiO2)1− films. *Applied Physics Letters*, **2006**, 88, 232502	3.4	4
39	The origin of the non-monotonic field dependence of the blocking temperature in magnetic nanoparticles. *Journal of Physics Condensed Matter*, **2006**, 18, 5905-10	1.8	38
38	Role of structural defects on ferromagnetism in amorphous Cr-doped TiO2 films. *Applied Physics Letters*, **2006**, 89, 042511	3.4	54

37	Characterization of Ni-base Superalloys on the Atomic Scale by Atom Probe Tomography and Spherical-Aberration Corrected Analytical Electron Microscopy Techniques. *Microscopy and Microanalysis*, **2006**, 12, 534-535	0.5	1
36	Electronic transport studies on Sb1−x(SiO2)xfilms. *Journal of Physics Condensed Matter*, **2005**, 17, 2553-2568	1.8	1
35	Memory effects in a nanoparticle system: Low-field magnetization and ac susceptibility measurements. *Physical Review B*, **2005**, 72,	3.3	36
34	Transport and magnetotransport properties of cold-pressed CrO2 powder. *Physica Status Solidi A*, **2005**, 202, 144-150		9
33	Direct synthesis of a bimodal nanosponge based on FePt and ZnS. *Small*, **2005**, 1, 402-6	11	30
32	Comment on "memory effects in an interacting magnetic nanoparticle system". *Physical Review Letters*, **2004**, 93, 139702; author reply 139703	7.4	31
31	Extraordinary Hall effect in (Ni80Fe20)x(SiO2)1−x thin films. *Physical Review B*, **2004**, 70,	3.3	10
30	Training effect of exchange bias in γ-Fe2O3 coated Fe nanoparticles. *Physical Review B*, **2004**, 69,	3.3	96
29	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
28	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
27	Structure and magnetic properties of polycrystalline Fe3O4 films deposited by reactive sputtering at room temperature. *Physica Status Solidi A*, **2004**, 201, 739-744		20
26	Using Soft Lithography to Pattern Highly Oriented Polyacetylene (HOPA) Films via Solventless Polymerization. *Advanced Materials*, **2004**, 16, 1356-1359	24	53
25	Giant Hall effect in metal/insulator composite films. *Vacuum*, **2004**, 73, 603-610	3.7	8
24	Microstructural and magnetic properties of passivated Co nanoparticle films. *Journal of Magnetism and Magnetic Materials*, **2004**, 270, 407-412	2.8	29
23	Cr2O3 surface layer and exchange bias in an acicular CrO2 particle. *Applied Physics Letters*, **2004**, 84, 702-704	3.4	48
22	Giant exchange bias and the vertical shifts of hysteresis loops in γ-Fe2O3-coated Fe nanoparticles. *Journal of Applied Physics*, **2004**, 95, 5244-5246	2.5	92
21	Exchange bias and the origin of magnetism in Mn-doped ZnO tetrapods. *Applied Physics Letters*, **2004**, 85, 2589-2591	3.4	84
20	Structure and magnetotransport properties of Fe3O4–SiO2 composite films reactively sputtered at room temperature. *Journal of Applied Physics*, **2004**, 95, 5661-5665	2.5	28

19	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
18	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
17	Chemical synthesis of narrowly dispersed SmCo5 nanoparticles. *Journal of Applied Physics*, **2003**, 93, 7589-7591	2.5	163
16	. *IEEE Transactions on Magnetics*, **2003**, 39, 2764-2766	2	19
15	Fabrication and magnetic properties of ultrathin Fe nanowire arrays. *Applied Physics Letters*, **2003**, 83, 3341-3343	3.4	116
14	Large room-temperature spin-dependent tunneling magnetoresistance in polycrystalline Fe3O4 films. *Applied Physics Letters*, **2003**, 83, 3531-3533	3.4	95
13	Structures and transport properties of polycrystalline Fe3O4films. *Journal of Physics Condensed Matter*, **2003**, 15, 8003-8009	1.8	12
12	Development of <110> texture in copper thin films. *Applied Physics Letters*, **2002**, 80, 2290-2292	3.4	40
11	Extraordinary Hall effect in CoxPt100 films. *Journal of Applied Physics*, **2002**, 91, 7424	2.5	1
10	Magnetic entropy change in LaFe13Six intermetallic compounds. *Journal of Applied Physics*, **2002**, 91, 8537	2.5	27
9	Room temperature magnetoresistance in La0.67Sr0.33Mn1CoxO3. *Journal of Applied Physics*, **2002**, 91, 8912	2.5	24
8	Diameter dependence of the giant magnetoimpedance in hard-drawn CoFeSiB amorphous wires. *Journal of Applied Physics*, **2002**, 91, 7418	2.5	26
7	Magnetic Field Dependent on Ultrasonic Sound Velocity and Attenuation in Charge-Ordering Manganese Oxide La0.5Ca0.5MnO3. *Physica Status Solidi A*, **2001**, 184, 251-256		6
6	Unexpected assembly of a unique cyano-bridged three-dimensional Cu3Cr2 ferromagnet. *Journal of the American Chemical Society*, **2001**, 123, 11809-10	16.4	113
5	Enhanced flux pinning in a high- T C superconducting film by a ferromagnetic buffer layer. *Europhysics Letters*, **2001**, 56, 119-125	1.6	28
4	Recent advances in radiation detection technologies enabled by metal-halide perovskites. *Materials Advances*,	3.3	5
3	Design and In Situ Growth of Cu 2 O-Blended Heterojunction Directed by Energy-Band Engineering: Toward High Photoelectrochemical Performance. *Advanced Materials Interfaces*,2101690	4.6	0
2	Tailoring Inorganic Halide Perovskite Photocatalysts toward Carbon Dioxide Reduction. *Solar Rrl*,2101058	7.1	4

1 Tailoring the electrolyte and cathode properties for optimizing the performance of symmetrical solid oxide fuel cells fabricated by one-step co-sintering method. *Journal of Asian Ceramic Societies*,1-10 2.4 0