Jun Ding

List of Publications by Citations

359 papers	15,281 citations	69 h-index	106 g-index
371 ext. papers	18,301 ext. citations	8.9 avg, IF	6.94 L-index

#	Paper	IF	Citations
359	Hollow Mo-doped CoP nanoarrays for efficient overall water splitting. *Nano Energy*, **2018**, 48, 73-80	17.1	418
358	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. *Advanced Materials*, **2018**, 30, e1705516	24	273
357	Soft spots and their structural signature in a metallic glass. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 14052-6	11.5	269
356	Short-range order and its impact on the CrCoNi medium-entropy alloy. *Nature*, **2020**, 581, 283-287	50.4	254
355	Tunable stacking fault energies by tailoring local chemical order in CrCoNi medium-entropy alloys. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 8919-8924	11.5	251
354	Growth of single-crystalline Ni and Co nanowires via electrochemical deposition and their magnetic properties. *Journal of Physical Chemistry B*, **2005**, 109, 3094-8	3.4	231
353	Magnetic molybdenum disulfide nanosheet films. *Nano Letters*, **2007**, 7, 2370-6	11.5	220
352	Dual-Functional N Dopants in Edges and Basal Plane of MoS2 Nanosheets Toward Efficient and Durable Hydrogen Evolution. *Advanced Energy Materials*, **2017**, 7, 1602086	21.8	215
351	Correlated d0 ferromagnetism and photoluminescence in undoped ZnO nanowires. *Applied Physics Letters*, **2010**, 96, 112511	3.4	215
350	Kinetically blocked stable heptazethrene and octazethrene: closed-shell or open-shell in the ground state?. *Journal of the American Chemical Society*, **2012**, 134, 14913-22	16.4	213
349	Comparative Study of Room-Temperature Ferromagnetism in Cu-Doped ZnO Nanowires Enhanced by Structural Inhomogeneity. *Advanced Materials*, **2008**, 20, 3521-3527	24	200
348	Full icosahedra dominate local order in Cu64Zr34 metallic glass and supercooled liquid. *Acta Materialia*, **2014**, 69, 343-354	8.4	197
347	Single-crystalline MFe(2)O(4) nanotubes/nanorings synthesized by thermal transformation process for biological applications. *ACS Nano*, **2009**, 3, 2798-808	16.7	188
346	Synthesis of ZnO Nanoparticles with Tunable Emission Colors and Their Cell Labeling Applications. *Chemistry of Materials*, **2010**, 22, 3383-3388	9.6	183
345	Metallic Ni3N nanosheets with exposed active surface sites for efficient hydrogen evolution. *Journal of Materials Chemistry A*, **2016**, 4, 17363-17369	13	177
344	Stable tetrabenzo-Chichibabin's hydrocarbons: tunable ground state and unusual transition between their closed-shell and open-shell resonance forms. *Journal of the American Chemical Society*, **2012**, 134, 14513-25	16.4	176
343	Optimization of surface coating on Fe3O4 nanoparticles for high performance magnetic hyperthermia agents. *Journal of Materials Chemistry*, **2012**, 22, 8235		175

342	Defect-induced magnetism in undoped wide band gap oxides: Zinc vacancies in ZnO as an example. *AIP Advances*, **2011**, 1, 022152	1.5	166
341	Activating and Optimizing Activity of CoS2 for Hydrogen Evolution Reaction through the Synergic Effect of N Dopants and S Vacancies. *ACS Energy Letters*, **2017**, 2, 1022-1028	20.1	165
340	TMD-based highly efficient electrocatalysts developed by combined computational and experimental approaches. *Chemical Society Reviews*, **2018**, 47, 4332-4356	58.5	154
339	Monodisperse silica nanoparticles encapsulating upconversion fluorescent and superparamagnetic nanocrystals. *Chemical Communications*, **2008**, 694-6	5.8	152
338	Pushing extended p-quinodimethanes to the limit: stable tetracyano-oligo(N-annulated perylene)quinodimethanes with tunable ground states. *Journal of the American Chemical Society*, **2013**, 135, 6363-71	16.4	150
337	Dibenzoheptazethrene isomers with different biradical characters: an exercise of Clar's aromatic sextet rule in singlet biradicaloids. *Journal of the American Chemical Society*, **2013**, 135, 18229-36	16.4	147
336	Robust room-temperature ferromagnetism with giant anisotropy in Nd-doped ZnO nanowire arrays. *Nano Letters*, **2012**, 12, 3994-4000	11.5	146
335	Strong correlation between ferromagnetism and oxygen deficiency in Cr-doped In2O3 nanostructures. *Physical Review B*, **2009**, 79,	3.3	145
334	3D-Printed MOF-Derived Hierarchically Porous Frameworks for Practical High-Energy Density Li O2 Batteries. *Advanced Functional Materials*, **2019**, 29, 1806658	15.6	138
333	Low temperature propane oxidation over Co3O4 based nano-array catalysts: Ni dopant effect, reaction mechanism and structural stability. *Applied Catalysis B: Environmental*, **2016**, 180, 150-160	21.8	131
332	Chemically Exfoliated VSe Monolayers with Room-Temperature Ferromagnetism. *Advanced Materials*, **2019**, 31, e1903779	24	131
331	Magnetic vortex nanorings: a new class of hyperthermia agent for highly efficient in vivo regression of tumors. *Advanced Materials*, **2015**, 27, 1939-44	24	128
330	Quantum dot capped magnetite nanorings as high performance nanoprobe for multiphoton fluorescence and magnetic resonance imaging. *Journal of the American Chemical Society*, **2010**, 132, 14803-11	16.4	121
329	Synthesis of Magnetite Nanooctahedra and Their Magnetic Field-Induced Two-/Three-Dimensional Superstructure. *Chemistry of Materials*, **2010**, 22, 3183-3191	9.6	119
328	Studies of magnetite nanoparticles synthesized by thermal decomposition of iron (III) acetylacetonate in tri(ethylene glycol). *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 3093-3098	2.8	119
327	Oxygen Vacancy Promoted O2 Activation over Perovskite Oxide for Low-Temperature CO Oxidation. *ACS Catalysis*, **2019**, 9, 9751-9763	13.1	116
326	Activating Basal Planes and S-Terminated Edges of MoS2 toward More Efficient Hydrogen Evolution. *Advanced Functional Materials*, **2017**, 27, 1604943	15.6	104
325	Synthesis of manganese ferrite/graphene oxide nanocomposites for biomedical applications. *Small*, **2012**, 8, 3620-30	11	104

324	Enhanced oxygen evolution reaction by Co-O-C bonds in rationally designed Co3O4/graphene nanocomposites. *Nano Energy*, **2017**, 33, 445-452	17.1	102
323	Orientation Mediated Enhancement on Magnetic Hyperthermia of Fe3O4 Nanodisc. *Advanced Functional Materials*, **2015**, 25, 812-820	15.6	101
322	Ceramic Robocasting: Recent Achievements, Potential, and Future Developments. *Advanced Materials*, **2018**, 30, e1802404	24	101
321	Multimodality treatment of cancer with herceptin conjugated, thermomagnetic iron oxides and docetaxel loaded nanoparticles of biodegradable polymers. *Biomaterials*, **2012**, 33, 7519-29	15.6	99
320	Synthesis of magnetite nanoparticles via a solvent-free thermal decomposition route. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 1256-1259	2.8	99
319	Manipulating the surface coating of ultra-small Gd2O3 nanoparticles for improved T1-weighted MR imaging. *Biomaterials*, **2014**, 35, 1636-42	15.6	96
318	Toward Two-Dimensional π-Conjugated Covalent Organic Radical Frameworks. *Angewandte Chemie - International Edition*, **2018**, 57, 8007-8011	16.4	94
317	Synthesis of nonstoichiometric zinc ferrite nanoparticles with extraordinary room temperature magnetism and their diverse applications. *Journal of Materials Chemistry C*, **2013**, 1, 2875	7.1	94
316	Sample size matters for Al88Fe7Gd5 metallic glass: Smaller is stronger. *Acta Materialia*, **2012**, 60, 5370-5379	8.4	93
315	Microstructural evolution and its influence on the magnetic properties of CoFe2O4 powders during mechanical milling. *Physical Review B*, **2006**, 74,	3.3	90
314	Higher Order π-Conjugated Polycyclic Hydrocarbons with Open-Shell Singlet Ground State: Nonazethrene versus Nonacene. *Journal of the American Chemical Society*, **2016**, 138, 10323-30	16.4	89
313	Tailoring structural inhomogeneities in metallic glasses to enable tensile ductility at room temperature. *Materials Today*, **2016**, 19, 568-579	21.8	89
312	Tetracyanoquaterrylene and tetracyanohexarylenequinodimethanes with tunable ground states and strong near-infrared absorption. *Angewandte Chemie - International Edition*, **2013**, 52, 8561-5	16.4	88
311	Vitamin E (D-alpha-tocopheryl-co-poly(ethylene glycol) 1000 succinate) micelles-superparamagnetic iron oxide nanoparticles for enhanced thermotherapy and MRI. *Biomaterials*, **2011**, 32, 5663-72	15.6	87
310	Evidence of Spin Frustration in a Vanadium Diselenide Monolayer Magnet. *Advanced Materials*, **2019**, 31, e1901185	24	85
309	Mutual ferromagnetic-ferroelectric coupling in multiferroic copper-doped ZnO. *Advanced Materials*, **2011**, 23, 1635-40	24	85
308	Magnetic nanoparticle-loaded polymer nanospheres as magnetic hyperthermia agents. *Journal of Materials Chemistry B*, **2014**, 2, 120-128	7.3	84
307	Universal structural parameter to quantitatively predict metallic glass properties. *Nature Communications*, **2016**, 7, 13733	17.4	84

306	Size-dependent magnetism and spin-glass behavior of amorphous NiO bulk, clusters, and nanocrystals: Experiments and first-principles calculations. *Physical Review B*, **2007**, 76,	3.3	83
305	Rylene Ribbons with Unusual Diradical Character. *CheM*, **2017**, 2, 81-92	16.2	82
304	Synthesis of ZnO-Pt nanoflowers and their photocatalytic applications. *Nanotechnology*, **2010**, 21, 185606	3.4	82
303	Defects engineering induced room temperature ferromagnetism in transition metal doped MoS 2. *Materials and Design*, **2017**, 121, 77-84	8.1	81
302	Macrocyclic Polyradicaloids with Unusual Super-ring Structure and Global Aromaticity. *CheM*, **2018**, 4, 1586-1595	16.2	79
301	Electrically Adjustable, Super Adhesive Force of a Superhydrophobic Aligned MnO2 Nanotube Membrane. *Advanced Functional Materials*, **2011**, 21, 184-190	15.6	79
300	Activation of the MoSe2 basal plane and Se-edge by B doping for enhanced hydrogen evolution. *Journal of Materials Chemistry A*, **2018**, 6, 510-515	13	79
299	Dual-Native Vacancy Activated Basal Plane and Conductivity of MoSe with High-Efficiency Hydrogen Evolution Reaction. *Small*, **2018**, 14, e1704150	11	78
298	Macroporous Silica Hollow Microspheres as Nanoparticle Collectors. *Chemistry of Materials*, **2009**, 21, 3629-3637	9.6	77
297	Push-Pull Type Oligo(N-annulated perylene)quinodimethanes: Chain Length and Solvent-Dependent Ground States and Physical Properties. *Journal of the American Chemical Society*, **2015**, 137, 8572-83	16.4	76
296	Toward Tetraradicaloid: The Effect of Fusion Mode on Radical Character and Chemical Reactivity. *Journal of the American Chemical Society*, **2016**, 138, 1065-77	16.4	76
295	Short-range structural signature of excess specific heat and fragility of metallic-glass-forming supercooled liquids. *Physical Review B*, **2012**, 85,	3.3	76
294	Catalytic growth of carbon nanoballs with and without cobalt encapsulation. *Chemical Physics Letters*, **2000**, 330, 41-47	2.5	76
293	Boosting catalytic propane oxidation over PGM-free Co3O4 nanocrystal aggregates through chemical leaching: A comparative study with Pt and Pd based catalysts. *Applied Catalysis B: Environmental*, **2018**, 226, 585-595	21.8	74
292	Origin of long-range ferromagnetic ordering in metal-organic frameworks with antiferromagnetic dimeric-Cu(II) building units. *Journal of the American Chemical Society*, **2012**, 134, 17286-90	16.4	72
291	Morphological control of synthesis and anomalous magnetic properties of 3-D branched Pt nanoparticles. *Langmuir*, **2008**, 24, 375-8	4	72
290	Thiol-capped ZnO nanowire/nanotube arrays with tunable magnetic properties at room temperature. *ACS Nano*, **2010**, 4, 495-505	16.7	69
289	Direct observation of lithium-ion transport under an electrical field in LixCoO2 nanograins. *Scientific Reports*, **2013**, 3, 1084	4.9	68

288	3D-Printed Anti-Fouling Cellulose Mesh for Highly Efficient Oil/Water Separation Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 13787-13795	9.5	67
287	Novel synthesis of superparamagnetic magnetite nanoclusters for biomedical applications. *Journal of Materials Chemistry*, **2011**, 21, 14717		66
286	Microgel iron oxide nanoparticles for tracking human fetal mesenchymal stem cells through magnetic resonance imaging. *Stem Cells*, **2009**, 27, 1921-31	5.8	64
285	Fully Fused Quinoidal/Aromatic Carbazole Macrocycles with Poly-radical Characters. *Journal of the American Chemical Society*, **2016**, 138, 7782-90	16.4	63
284	Local Topology vs. Atomic-Level Stresses as a Measure of Disorder: Correlating Structural Indicators for Metallic Glasses. *Materials Research Letters*, **2013**, 1, 3-12	7.4	61
283	One-dimensional stringlike cooperative migration of lithium ions in an ultrafast ionic conductor. *Applied Physics Letters*, **2012**, 101, 031901	3.4	60
282	A Peri-tetracene Diradicaloid: Synthesis and Properties. *Angewandte Chemie - International Edition*, **2018**, 57, 9697-9701	16.4	60
281	3D global aromaticity in a fully conjugated diradicaloid cage at different oxidation states. *Nature Chemistry*, **2020**, 12, 242-248	17.6	59
280	Super-heptazethrene. *Angewandte Chemie - International Edition*, **2016**, 55, 8615-9	16.4	59
279	Synthesis, Structure, and Magnetic Properties of [Li(H2O)M(N2H3CO2)3]□0.5H2O (M = Co,Ni) as Single Precursors to LiMO2Battery Materials. *Chemistry of Materials*, **2006**, 18, 1587-1594	9.6	58
278	Engineering Magnetic Properties of Ni Nanoparticles by Non-Magnetic Cores. *Chemistry of Materials*, **2009**, 21, 5222-5228	9.6	57
277	Synthesis of Ferromagnetic Fe0.6 Mn0.4 O Nanoflowers as a New Class of Magnetic Theranostic Platform for In Vivo T1 -T2 Dual-Mode Magnetic Resonance Imaging and Magnetic Hyperthermia Therapy. *Advanced Healthcare Materials*, **2016**, 5, 2092-104	10.1	56
276	3D-printed electrodes for lithium metal batteries with high areal capacity and high-rate capability. *Energy Storage Materials*, **2020**, 24, 336-342	19.4	55
275	Nanoscaled self-alignment of Fe3O4 nanodiscs in ultrathin rGO films with engineered conductivity for electromagnetic interference shielding. *Nanoscale*, **2016**, 8, 15989-98	7.7	54
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273	A 1D Vanadium Dioxide Nanochannel Constructed via Electric-Field-Induced Ion Transport and its Superior Metal-Insulator Transition. *Advanced Materials*, **2017**, 29, 1702162	24	52
272	Computational modeling sheds light on structural evolution in metallic glasses and supercooled liquids. *Npj Computational Materials*, **2017**, 3,	10.9	51
271	Mesoporous carbon decorated graphene as an efficient electrode material for supercapacitors. *Journal of Materials Chemistry A*, **2013**, 1, 7469	13	51

270	Ferromagnetic ordering in Mn-doped ZnO nanoparticles. *Nanoscale Research Letters*, **2014**, 9, 625	5	51
269	Inducing High Coercivity in MoS2 Nanosheets by Transition Element Doping. *Chemistry of Materials*, **2017**, 29, 9066-9074	9.6	50
268	Three Dimensionally Free-Formable Graphene Foam with Designed Structures for Energy and Environmental Applications. *ACS Nano*, **2020**, 14, 937-947	16.7	50
267	Extremely low frequency alternating magnetic field-triggered and MRI-traced drug delivery by optimized magnetic zeolitic imidazolate framework-90 nanoparticles. *Nanoscale*, **2016**, 8, 3259-63	7.7	49
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265	Nanoscale magnetization reversal caused by electric field-induced ion migration and redistribution in cobalt ferrite thin films. *ACS Nano*, **2015**, 9, 4210-8	16.7	48
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262	Superoctazethrene: An Open-Shell Graphene-like Molecule Possessing Large Diradical Character but Still with Reasonable Stability. *Journal of the American Chemical Society*, **2018**, 140, 14054-14058	16.4	48
261	Second-Nearest-Neighbor Correlations from Connection of Atomic Packing Motifs in Metallic Glasses and Liquids. *Scientific Reports*, **2015**, 5, 17429	4.9	47
260	Ferrite-based soft and hard magnetic structures by extrusion free-forming. *RSC Advances*, **2017**, 7, 27128-27138	3.7	46
259	Spatial correlation of elastic heterogeneity tunes the deformation behavior of metallic glasses. *Npj Computational Materials*, **2018**, 4,	10.9	46
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257	Three-dimensional printed cellular stainless steel as a high-activity catalytic electrode for oxygen evolution. *Journal of Materials Chemistry A*, **2017**, 5, 18176-18182	13	45
256	Charge-transfer-enhanced prism-type local order in amorphous Mg65Cu25Y10: Short-to-medium-range structural evolution underlying liquid fragility and heat capacity. *Acta Materialia*, **2013**, 61, 3130-3140	8.4	45
255	Cyclopenta Ring Fused Bisanthene and Its Charged Species with Open-Shell Singlet Diradical Character and Global Aromaticity/ Anti-Aromaticity. *Angewandte Chemie - International Edition*, **2017**, 56, 11415-11419	16.4	44
254	3D-Printing of Pure Metal–Organic Framework Monoliths **2019**, 1, 147-153		44
253	Multimaterial 3D-printing of graphene/Li0.35Zn0.3Fe2.35O4 and graphene/carbonyl iron composites with superior microwave absorption properties and adjustable bandwidth. *Carbon*, **2020**, 167, 62-74	10.4	44

252	Fluorenyl Based Macrocyclic Polyradicaloids. *Journal of the American Chemical Society*, **2017**, 139, 13173-13183	14.4	44
251	Copper dopants improved the hydrogen evolution activity of earth-abundant cobalt pyrite catalysts by activating the electrocatalytically inert sulfur sites. *Journal of Materials Chemistry A*, **2017**, 5, 17601-17608	11	44
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245	Correlating local structure with inhomogeneous elastic deformation in a metallic glass. *Applied Physics Letters*, **2012**, 101, 121917	3.4	42
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240	A facile one-step route to synthesize cage-like silica hollow spheres loaded with superparamagnetic iron oxide nanoparticles in their shells. *Chemical Communications*, **2009**, 938-40	5.8	39
239	Enhancement of room temperature ferromagnetism in C-doped ZnO films by nitrogen codoping. *Journal of Applied Physics*, **2009**, 105, 07C513	2.5	39
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237	Syntheses, structures and properties of copper(II) complexes containing N-(2-hydroxybenzyl)-amino amide ligands. *Inorganica Chimica Acta*, **2006**, 359, 3481-3490	2.7	39
236	Diazuleno-s-indacene Diradicaloids: Syntheses, Properties, and Local (anti)Aromaticity Shift from Neutral to Dicationic State. *Angewandte Chemie - International Edition*, **2018**, 57, 16737-16741	16.4	38
235	GO-Functionalized Large Magnetic Iron Oxide Nanoparticles with Enhanced Colloidal Stability and Hyperthermia Performance. *ACS Applied Materials & Interfaces*, **2019**, 11, 22703-22713	9.5	37

234	Inducing ferromagnetism in ZnO through doping of nonmagnetic elements. *Applied Physics Letters*, **2008**, 93, 042514	3.4	37
233	Size-dependent microwave absorption properties of Fe3O4 nanodiscs. *RSC Advances*, **2016**, 6, 25444-25448	3.7	36
232	Bioinspired Fractal Design of Waste Biomass-Derived Solar‐Thermal Materials for Highly Efficient Solar Evaporation. *Advanced Functional Materials*, **2021**, 31, 2007648	15.6	36
231	A Three-Dimensionally ‐Conjugated Diradical Molecular Cage. *Angewandte Chemie - International Edition*, **2017**, 56, 15383-15387	16.4	35
230	Global Aromaticity in Macrocyclic Cyclopenta-Fused Tetraphenanthrenylene Tetraradicaloid and Its Charged Species. *Angewandte Chemie - International Edition*, **2018**, 57, 13052-13056	16.4	35
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226	Zn vacancy induced ferromagnetism in K doped ZnO. *Journal of Materials Chemistry C*, **2015**, 3, 11953-11958	7.1	34
225	Coating Engineering of MnFe2O4 Nanoparticles with Superhigh T2 Relaxivity and Efficient Cellular Uptake for Highly Sensitive Magnetic Resonance Imaging. *Advanced Materials Interfaces*, **2014**, 1, 1300069	4.6	34
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212	Ab initio modeling of the energy landscape for screw dislocations in body-centered cubic high-entropy alloys. *Npj Computational Materials*, **2020**, 6,	10.9	30
211	Design and Manufacture of 3D-Printed Batteries. *Joule*, **2021**, 5, 89-114	27.8	30
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