Jun Ding

List of Publications by Citations

324 papers	13,742 citations	64 h-index	101 g-index
342 ext. papers	16,189 ext. citations	8.9 avg, IF	6.67 L-index

#	Paper	IF	Citations
324	Hollow Mo-doped CoP nanoarrays for efficient overall water splitting. *Nano Energy*, **2018**, 48, 73-80	17.1	418
323	Ferromagnetism in dilute magnetic semiconductors through defect engineering: Li-doped ZnO. *Physical Review Letters*, **2010**, 104, 137201	7.4	391
322	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. *Advanced Materials*, **2018**, 30, e1705516	24	273
321	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
320	Magnetic molybdenum disulfide nanosheet films. *Nano Letters*, **2007**, 7, 2370-6	11.5	220
319	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
318	Correlated d0 ferromagnetism and photoluminescence in undoped ZnO nanowires. *Applied Physics Letters*, **2010**, 96, 112511	3.4	215
317	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
316	Comparative Study of Room-Temperature Ferromagnetism in Cu-Doped ZnO Nanowires Enhanced by Structural Inhomogeneity. *Advanced Materials*, **2008**, 20, 3521-3527	24	200
315	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
314	Synthesis of ZnO Nanoparticles with Tunable Emission Colors and Their Cell Labeling Applications. *Chemistry of Materials*, **2010**, 22, 3383-3388	9.6	183
313	Metallic Ni3N nanosheets with exposed active surface sites for efficient hydrogen evolution. *Journal of Materials Chemistry A*, **2016**, 4, 17363-17369	13	177
312	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
311	Optimization of surface coating on Fe3O4 nanoparticles for high performance magnetic hyperthermia agents. *Journal of Materials Chemistry*, **2012**, 22, 8235		175
310	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
309	TMD-based highly efficient electrocatalysts developed by combined computational and experimental approaches. *Chemical Society Reviews*, **2018**, 47, 4332-4356	58.5	154
308	Monodisperse silica nanoparticles encapsulating upconversion fluorescent and superparamagnetic nanocrystals. *Chemical Communications*, **2008**, 694-6	5.8	152

307	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
306	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
305	Robust room-temperature ferromagnetism with giant anisotropy in Nd-doped ZnO nanowire arrays. *Nano Letters*, **2012**, 12, 3994-4000	11.5	146
304	Carbon Nanotube-Encapsulated Noble Metal Nanoparticle Hybrid as a Cathode Material for Li-Oxygen Batteries. *Advanced Functional Materials*, **2014**, 24, 6516-6523	15.6	143
303	3D-Printed MOF-Derived Hierarchically Porous Frameworks for Practical High-Energy Density Li–O2 Batteries. *Advanced Functional Materials*, **2019**, 29, 1806658	15.6	138
302	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
301	Chemically Exfoliated VSe Monolayers with Room-Temperature Ferromagnetism. *Advanced Materials*, **2019**, 31, e1903779	24	131
300	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
299	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
298	Synthesis of Magnetite Nanooctahedra and Their Magnetic Field-Induced Two-/Three-Dimensional Superstructure. *Chemistry of Materials*, **2010**, 22, 3183-3191	9.6	119
297	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
296	Oxygen Vacancy Promoted O2 Activation over Perovskite Oxide for Low-Temperature CO Oxidation. *ACS Catalysis*, **2019**, 9, 9751-9763	13.1	116
295	Activating Basal Planes and S-Terminated Edges of MoS2 toward More Efficient Hydrogen Evolution. *Advanced Functional Materials*, **2017**, 27, 1604943	15.6	104
294	Synthesis of manganese ferrite/graphene oxide nanocomposites for biomedical applications. *Small*, **2012**, 8, 3620-30	11	104
293	Enhanced oxygen evolution reaction by Co-O-C bonds in rationally designed Co3O4/graphene nanocomposites. *Nano Energy*, **2017**, 33, 445-452	17.1	102
292	Orientation Mediated Enhancement on Magnetic Hyperthermia of Fe3O4 Nanodisc. *Advanced Functional Materials*, **2015**, 25, 812-820	15.6	101
291	Ceramic Robocasting: Recent Achievements, Potential, and Future Developments. *Advanced Materials*, **2018**, 30, e1802404	24	101
290	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

289	Synthesis of magnetite nanoparticles via a solvent-free thermal decomposition route. *Journal of Magnetism and Magnetic Materials*, **2009**, 321, 1256-1259	2.8	99
288	Manipulating the surface coating of ultra-small Gd2O3 nanoparticles for improved T1-weighted MR imaging. *Biomaterials*, **2014**, 35, 1636-42	15.6	96
287	Toward Two-Dimensional Conjugated Covalent Organic Radical Frameworks. *Angewandte Chemie - International Edition*, **2018**, 57, 8007-8011	16.4	94
286	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
285	Higher Order 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
284	Tetracyanoquaterrylene and tetracyanohexarylenequinodimethanes with tunable ground states and strong near-infrared absorption. *Angewandte Chemie - International Edition*, **2013**, 52, 8561-5	16.4	88
283	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
282	Mutual ferromagnetic-ferroelectric coupling in multiferroic copper-doped ZnO. *Advanced Materials*, **2011**, 23, 1635-40	24	85
281	Magnetic nanoparticle-loaded polymer nanospheres as magnetic hyperthermia agents. *Journal of Materials Chemistry B*, **2014**, 2, 120-128	7.3	84
280	Rylene Ribbons with Unusual Diradical Character. *CheM*, **2017**, 2, 81-92	16.2	82
279	Synthesis of ZnO-Pt nanoflowers and their photocatalytic applications. *Nanotechnology*, **2010**, 21, 185606	3.4	82
278	Defects engineering induced room temperature ferromagnetism in transition metal doped MoS 2. *Materials and Design*, **2017**, 121, 77-84	8.1	81
277	Macrocyclic Polyradicaloids with Unusual Super-ring Structure and Global Aromaticity. *CheM*, **2018**, 4, 1586-1595	16.2	79
276	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
275	Dual-Native Vacancy Activated Basal Plane and Conductivity of MoSe with High-Efficiency Hydrogen Evolution Reaction. *Small*, **2018**, 14, e1704150	11	78
274	Macroporous Silica Hollow Microspheres as Nanoparticle Collectors. *Chemistry of Materials*, **2009**, 21, 3629-3637	9.6	77
273	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
272	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

271	Catalytic growth of carbon nanoballs with and without cobalt encapsulation. *Chemical Physics Letters*, **2000**, 330, 41-47	2.5	76
270	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
269	Tunable Electrical Conductivity and Magnetic Property of the Two Dimensional Metal Organic Framework [Cu(TPyP)Cu2(O2CCH3)4]. *ACS Applied Materials & Interfaces*, **2016**, 8, 16154-9	9.5	72
268	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
267	Morphological control of synthesis and anomalous magnetic properties of 3-D branched Pt nanoparticles. *Langmuir*, **2008**, 24, 375-8	4	72
266	New salicidation technology with Ni(Pt) alloy for MOSFETs. *IEEE Electron Device Letters*, **2001**, 22, 568-570	4.4	71
265	Thiol-capped ZnO nanowire/nanotube arrays with tunable magnetic properties at room temperature. *ACS Nano*, **2010**, 4, 495-505	16.7	69
264	Direct observation of lithium-ion transport under an electrical field in LixCoO2 nanograins. *Scientific Reports*, **2013**, 3, 1084	4.9	68
263	3D-Printed Anti-Fouling Cellulose Mesh for Highly Efficient Oil/Water Separation Applications. *ACS Applied Materials & Interfaces*, **2019**, 11, 13787-13795	9.5	67
262	Novel synthesis of superparamagnetic magnetite nanoclusters for biomedical applications. *Journal of Materials Chemistry*, **2011**, 21, 14717		66
261	Microgel iron oxide nanoparticles for tracking human fetal mesenchymal stem cells through magnetic resonance imaging. *Stem Cells*, **2009**, 27, 1921-31	5.8	64
260	Fully Fused Quinoidal/Aromatic Carbazole Macrocycles with Poly-radical Characters. *Journal of the American Chemical Society*, **2016**, 138, 7782-90	16.4	63
259	A Peri-tetracene Diradicaloid: Synthesis and Properties. *Angewandte Chemie - International Edition*, **2018**, 57, 9697-9701	16.4	60
258	3D global aromaticity in a fully conjugated diradicaloid cage at different oxidation states. *Nature Chemistry*, **2020**, 12, 242-248	17.6	59
257	Super-heptazethrene. *Angewandte Chemie - International Edition*, **2016**, 55, 8615-9	16.4	59
256	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
255	Engineering Magnetic Properties of Ni Nanoparticles by Non-Magnetic Cores. *Chemistry of Materials*, **2009**, 21, 5222-5228	9.6	57
254	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

253	Size dependent magnetic hyperthermia of octahedral Fe3O4 nanoparticles. *RSC Advances*, **2015**, 5, 76764-76774	3.7	55
252	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
251	Synthesis of NiS and MnS Nanocrystals from the Molecular Precursors (TMEDA)M(SC{O}C6H5)2 (M = Ni, Mn). *Crystal Growth and Design*, **2009**, 9, 352-357	3.5	54
250	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
249	Facile synthesis of water-stable magnetite nanoparticles for clinical MRI and magnetic hyperthermia applications. *Nanomedicine*, **2010**, 5, 1571-84	5.6	53
248	High coercivity in SiO2-doped CoFe2O4 powders and thin films. *Applied Physics Letters*, **2000**, 77, 3621-3623	3.7	53
247	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
246	Bovine Serum Albumin-Conjugated Ferrimagnetic Iron Oxide Nanoparticles to Enhance the Biocompatibility and Magnetic Hyperthermia Performance. *Nano-Micro Letters*, **2016**, 8, 80-93	19.5	51
245	Mesoporous carbon decorated graphene as an efficient electrode material for supercapacitors. *Journal of Materials Chemistry A*, **2013**, 1, 7469	13	51
244	Ferromagnetic ordering in Mn-doped ZnO nanoparticles. *Nanoscale Research Letters*, **2014**, 9, 625	5	51
243	Inducing High Coercivity in MoS2 Nanosheets by Transition Element Doping. *Chemistry of Materials*, **2017**, 29, 9066-9074	9.6	50
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241	Three Dimensionally Free-Formable Graphene Foam with Designed Structures for Energy and Environmental Applications. *ACS Nano*, **2020**, 14, 937-947	16.7	50
240	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
239	Ar2+ Beam Irradiation-Induced Multivancancies in MoSe2 Nanosheet for Enhanced Electrochemical Hydrogen Evolution. *ACS Energy Letters*, **2018**, 3, 2167-2172	20.1	49
238	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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235	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
234	Fine Strontium Ferrite Powders from an Ethanol-Based Microemulsion. *Journal of the American Ceramic Society*, **2004**, 83, 1049-1055	3.8	47
233	Ferrite-based soft and hard magnetic structures by extrusion free-forming. *RSC Advances*, **2017**, 7, 27128-27138	3.7	46
232	Intrinsic Ferromagnetism in the Diluted Magnetic Semiconductor Co:TiO_{2}. *Physical Review Letters*, **2016**, 117, 227202	7.4	46
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228	Fluorenyl Based Macrocyclic Polyradicaloids. *Journal of the American Chemical Society*, **2017**, 139, 13173-13183	14.4	44
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222	Magnetic properties and magnetic entropy change of amorphous and crystalline GdNiAl ribbons. *Applied Physics A: Materials Science and Processing*, **2002**, 75, 535-539	2.6	42
221	Room-Temperature Magnets Based on 1,3,5-Triazine-Linked Porous Organic Radical Frameworks. *CheM*, **2019**, 5, 1223-1234	16.2	41
220	Effects of dielectric fluids on surface integrity for the recast layer in high speed EDM drilling of nickel alloy. *Journal of Alloys and Compounds*, **2019**, 783, 95-102	5.7	40
219	Digital light processing 3D printing of graphene/carbonyl iron/polymethyl methacrylate nanocomposites for efficient microwave absorption. *Composites Part B: Engineering*, **2019**, 179, 107533	10	39
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213	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
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209	Bioinspired Fractal Design of Waste Biomass-Derived Solar□Thermal Materials for Highly Efficient Solar Evaporation. *Advanced Functional Materials*, **2021**, 31, 2007648	15.6	36
208	A Three-Dimensionally □Conjugated Diradical Molecular Cage. *Angewandte Chemie - International Edition*, **2017**, 56, 15383-15387	16.4	35
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202	Octazethrene and Its Isomer with Different Diradical Characters and Chemical Reactivity: The Role of the Bridge Structure. *Journal of Organic Chemistry*, **2016**, 81, 2911-9	4.2	34
201	Zn vacancy induced ferromagnetism in K doped ZnO. *Journal of Materials Chemistry C*, **2015**, 3, 11953-11958	7.1	34
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198	Heterogeneously tempered martensitic high strength steel by selective laser melting and its micro-lattice: Processing, microstructure, superior performance and mechanisms. *Materials and Design*, **2019**, 178, 107881	8.1	33
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192	Interplay of Cu and oxygen vacancy in optical transitions and screening of excitons in ZnO:Cu films. *Applied Physics Letters*, **2014**, 104, 081922	3.4	31
191	Ferromagnetism and Crossover of Positive Magnetoresistance to Negative Magnetoresistance in Na-Doped ZnO. *Chemistry of Materials*, **2015**, 27, 1285-1291	9.6	31
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178	Magnetic properties of Co doped WSe2 by implantation. *Journal of Alloys and Compounds*, **2018**, 731, 25-31	5.7	26
177	Re doping induced 2H-1T phase transformation and ferromagnetism in MoS2 nanosheets. *Applied Physics Letters*, **2018**, 113, 013101	3.4	26
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175	Ag/Au-decorated Fe3O4/SiO2 composite nanospheres for catalytic applications. *Acta Materialia*, **2010**, 58, 3825-3831	8.4	25
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170	High catalytic activity of oxygen-induced (200) surface of Ta2O5 nanolayer towards durable oxygen evolution reaction. *Nano Energy*, **2016**, 25, 60-67	17.1	24
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168	Polyol-based synthesis of hydrophilic magnetite nanoparticles. *Journal of Applied Physics*, **2010**, 107, 09B310	2.5	23
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1 Combination Control, Nanomagnetism and Biomedical Applications of Inorganic Multicomponent Hybrid Nanomaterials **2012**, 421-454