

# Jun Ding

## List of Publications by Year in descending order

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367  
papers

21,418  
citations

6613

79  
h-index

15266

126  
g-index

371  
all docs

371  
docs citations

371  
times ranked

23365  
citing authors

#	ARTICLE	IF	CITATIONS
1	Short-range order and its impact on the CrCoNi medium-entropy alloy. <i>Nature</i> , 2020, 581, 283-287.	27.8	672
2	Hollow Mo-doped CoP nanoarrays for efficient overall water splitting. <i>Nano Energy</i> , 2018, 48, 73-80.	16.0	608
3	Tunable stacking fault energies by tailoring local chemical order in CrCoNi medium-entropy alloys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8919-8924.	7.1	495
4	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1705516.	21.0	375
5	Soft spots and their structural signature in a metallic glass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14052-14056.	7.1	348
6	Oxygen Vacancy Promoted O <sub>2</sub> Activation over Perovskite Oxide for Low-Temperature CO Oxidation. <i>ACS Catalysis</i> , 2019, 9, 9751-9763.	11.2	296
7	Dual-Functional N Dopants in Edges and Basal Plane of MoS <sub>2</sub> Nanosheets Toward Efficient and Durable Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2017, 7, 1602086.	19.5	286
8	Kinetically Blocked Stable Heptazethrene and Octazethrene: Closed-Shell or Open-Shell in the Ground State?. <i>Journal of the American Chemical Society</i> , 2012, 134, 14913-14922.	13.7	256
9	Full icosahedra dominate local order in Cu <sub>64</sub> Zr <sub>34</sub> metallic glass and supercooled liquid. <i>Acta Materialia</i> , 2014, 69, 343-354.	7.9	253
10	Chemically Exfoliated VSe <sub>2</sub> Monolayers with Room-Temperature Ferromagnetism. <i>Advanced Materials</i> , 2019, 31, e1903779.	21.0	251
11	Growth of Single-Crystalline Ni and Co Nanowires via Electrochemical Deposition and Their Magnetic Properties. <i>Journal of Physical Chemistry B</i> , 2005, 109, 3094-3098.	2.6	240
12	Magnetic Molybdenum Disulfide Nanosheet Films. <i>Nano Letters</i> , 2007, 7, 2370-2376.	9.1	239
13	Metallic Ni <sub>3</sub> N nanosheets with exposed active surface sites for efficient hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17363-17369.	10.3	233
14	TMD-based highly efficient electrocatalysts developed by combined computational and experimental approaches. <i>Chemical Society Reviews</i> , 2018, 47, 4332-4356.	38.1	232
15	Activating and Optimizing Activity of CoS <sub>2</sub> for Hydrogen Evolution Reaction through the Synergic Effect of N Dopants and S Vacancies. <i>ACS Energy Letters</i> , 2017, 2, 1022-1028.	17.4	229
16	Correlated d ferromagnetism and photoluminescence in undoped ZnO nanowires. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	226
17	Stable Tetrabenzo-Chichibabin's Hydrocarbons: Tunable Ground State and Unusual Transition between Their Closed-Shell and Open-Shell Resonance Forms. <i>Journal of the American Chemical Society</i> , 2012, 134, 14513-14525.	13.7	218
18	Ceramic Robocasting: Recent Achievements, Potential, and Future Developments. <i>Advanced Materials</i> , 2018, 30, e1802404.	21.0	218

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19	Comparative Study of Room-Temperature Ferromagnetism in Cu-Doped ZnO Nanowires Enhanced by Structural Inhomogeneity. <i>Advanced Materials</i> , 2008, 20, 3521-3527.	21.0	211
20	Single-Crystalline $\text{MFe}_2\text{O}_4$ Nanotubes/Nanorings Synthesized by Thermal Transformation Process for Biological Applications. <i>ACS Nano</i> , 2009, 3, 2798-2808.	14.6	211
21	Optimization of surface coating on $\text{Fe}_3\text{O}_4$ nanoparticles for high performance magnetic hyperthermia agents. <i>Journal of Materials Chemistry</i> , 2012, 22, 8235.	6.7	208
22	Synthesis of ZnO Nanoparticles with Tunable Emission Colors and Their Cell Labeling Applications. <i>Chemistry of Materials</i> , 2010, 22, 3383-3388.	6.7	204
23	3D-Printed MOF-Derived Hierarchically Porous Frameworks for Practical High-Energy Density $\text{LiO}_2$ Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1806658.	14.9	197
24	Defect-induced magnetism in undoped wide band gap oxides: Zinc vacancies in ZnO as an example. <i>AIP Advances</i> , 2011, 1, .	1.3	179
25	Low temperature propane oxidation over $\text{Co}_3\text{O}_4$ based nano-array catalysts: Ni dopant effect, reaction mechanism and structural stability. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 150-160.	20.2	174
26	Pushing Extended $\pi$ -Quinodimethanes to the Limit: Stable Tetracyano-oligo( $N$ -annulated) Tj ETQqO O O rgBT /Overlock 10 2013, 135, 6363-6371.	13.7	170
27	Dibenzoheptazethrene Isomers with Different Biradical Characters: An Exercise of Clar's Aromatic Sextet Rule in Singlet Biradicaloids. <i>Journal of the American Chemical Society</i> , 2013, 135, 18229-18236.	13.7	167
28	Magnetic Vortex Nanorings: A New Class of Hyperthermia Agent for Highly Efficient In Vivo Regression of Tumors. <i>Advanced Materials</i> , 2015, 27, 1939-1944.	21.0	165
29	Monodisperse silicananoparticles encapsulating upconversion fluorescent and superparamagnetic nanocrystals. <i>Chemical Communications</i> , 2008, , 694-696.	4.1	160
30	Robust Room-Temperature Ferromagnetism with Giant Anisotropy in Nd-Doped ZnO Nanowire Arrays. <i>Nano Letters</i> , 2012, 12, 3994-4000.	9.1	157
31	Strong correlation between ferromagnetism and oxygen deficiency in Cr-doped $\ln$ $\text{display="inline"} \ln$ <i>Physical Review B</i> , 2009, 79, .	3.2	154
32	Studies of magnetite nanoparticles synthesized by thermal decomposition of iron (III) acetylacetonate in tri(ethylene glycol). <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 3093-3098.	2.3	147
33	Toward Two-Dimensional $\pi$ -Conjugated Covalent Organic Radical Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8007-8011.	13.8	140
34	Atomistic simulations of dislocation mobility in refractory high-entropy alloys and the effect of chemical short-range order. <i>Nature Communications</i> , 2021, 12, 4873.	12.8	138
35	Design and Manufacture of 3D-Printed Batteries. <i>Joule</i> , 2021, 5, 89-114.	24.0	137
36	Quantum Dot Capped Magnetite Nanorings as High Performance Nanoprobe for Multiphoton Fluorescence and Magnetic Resonance Imaging. <i>Journal of the American Chemical Society</i> , 2010, 132, 14803-14811.	13.7	132

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37	Enhanced oxygen evolution reaction by Co-O-C bonds in rationally designed Co <sub>3</sub> O <sub>4</sub> /graphene nanocomposites. <i>Nano Energy</i> , 2017, 33, 445-452.	16.0	131
38	Activating Basal Planes and S-terminated Edges of MoS <sub>2</sub> toward More Efficient Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2017, 27, 1604943.	14.9	131
39	Evidence of Spin Frustration in a Vanadium Diselenide Monolayer Magnet. <i>Advanced Materials</i> , 2019, 31, e1901185.	21.0	129
40	Synthesis of Magnetite Nanooctahedra and Their Magnetic Field-Induced Two-/Three-Dimensional Superstructure. <i>Chemistry of Materials</i> , 2010, 22, 3183-3191.	6.7	128
41	Synthesis of magnetite nanoparticles via a solvent-free thermal decomposition route. <i>Journal of Magnetism and Magnetic Materials</i> , 2009, 321, 1256-1259.	2.3	126
42	Universal structural parameter to quantitatively predict metallic glass properties. <i>Nature Communications</i> , 2016, 7, 13733.	12.8	124
43	Orientation Mediated Enhancement on Magnetic Hyperthermia of Fe <sub>3</sub> O <sub>4</sub> Nanodisc. <i>Advanced Functional Materials</i> , 2015, 25, 812-820.	14.9	121
44	Tailoring structural inhomogeneities in metallic glasses to enable tensile ductility at room temperature. <i>Materials Today</i> , 2016, 19, 568-579.	14.2	119
45	Higher Order $\pi$ -Conjugated Polycyclic Hydrocarbons with Open-Shell Singlet Ground State: Nonazethrene versus Nonacene. <i>Journal of the American Chemical Society</i> , 2016, 138, 10323-10330.	13.7	118
46	Rylene Ribbons with Unusual Diradical Character. <i>Chem</i> , 2017, 2, 81-92.	11.7	116
47	Synthesis of nonstoichiometric zinc ferrite nanoparticles with extraordinary room temperature magnetism and their diverse applications. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2875.	5.5	115
48	Dual-native Vacancy Activated Basal Plane and Conductivity of MoSe <sub>2</sub> with High-efficiency Hydrogen Evolution Reaction. <i>Small</i> , 2018, 14, e1704150.	10.0	114
49	Synthesis of Manganese Ferrite/Graphene Oxide Nanocomposites for Biomedical Applications. <i>Small</i> , 2012, 8, 3620-3630.	10.0	113
50	Boosting catalytic propane oxidation over PGM-free Co <sub>3</sub> O <sub>4</sub> nanocrystal aggregates through chemical leaching: A comparative study with Pt and Pd based catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 226, 585-595.	20.2	113
51	Multimodality treatment of cancer with herceptin conjugated, thermomagnetic iron oxides and docetaxel loaded nanoparticles of biodegradable polymers. <i>Biomaterials</i> , 2012, 33, 7519-7529.	11.4	111
52	Sample size matters for Al <sub>88</sub> Fe <sub>7</sub> Gd <sub>5</sub> metallic glass: Smaller is stronger. <i>Acta Materialia</i> , 2012, 60, 5370-5379.	7.9	110
53	Macrocyclic Polyradicaloids with Unusual Super-ring Structure and Global Aromaticity. <i>Chem</i> , 2018, 4, 1586-1595.	11.7	110
54	Activation of the MoSe <sub>2</sub> basal plane and Se-edge by B doping for enhanced hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2018, 6, 510-515.	10.3	110

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55	Manipulating the surface coating of ultra-small Gd <sub>2</sub> O <sub>3</sub> nanoparticles for improved T1-weighted MR imaging. <i>Biomaterials</i> , 2014, 35, 1636-1642.	11.4	108
56	3D-printed electrodes for lithium metal batteries with high areal capacity and high-rate capability. <i>Energy Storage Materials</i> , 2020, 24, 336-342.	18.0	105
57	Toward Tetraradicaloid: The Effect of Fusion Mode on Radical Character and Chemical Reactivity. <i>Journal of the American Chemical Society</i> , 2016, 138, 1065-1077.	13.7	103
58	3D-Printed Anti-Fouling Cellulose Mesh for Highly Efficient Oil/Water Separation Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13787-13795.	8.0	102
59	Three Dimensionally Free-Formable Graphene Foam with Designed Structures for Energy and Environmental Applications. <i>ACS Nano</i> , 2020, 14, 937-947.	14.6	101
60	3D global aromaticity in a fully conjugated diradicaloid cage at different oxidation states. <i>Nature Chemistry</i> , 2020, 12, 242-248.	13.6	101
61	Microstructural evolution and its influence on the magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> powders during mechanical milling. <i>Physical Review B</i> , 2006, 74, .	3.2	100
62	Bioinspired Fractal Design of Waste Biomass-Derived Solar-Thermal Materials for Highly Efficient Solar Evaporation. <i>Advanced Functional Materials</i> , 2021, 31, 2007648.	14.9	98
63	Local chemical fluctuation mediated ductility in body-centered-cubic high-entropy alloys. <i>Materials Today</i> , 2021, 46, 28-34.	14.2	98
64	Defects engineering induced room temperature ferromagnetism in transition metal doped MoS <sub>2</sub> . <i>Materials and Design</i> , 2017, 121, 77-84.	7.0	97
65	Size-dependent magnetism and spin-glass behavior of amorphous NiO bulk, clusters, and nanocrystals: Experiments and first-principles calculations. <i>Physical Review B</i> , 2007, 76, .	3.2	96
66	Mutual Ferromagnetic-Ferroelectric Coupling in Multiferroic Copper-Doped ZnO. <i>Advanced Materials</i> , 2011, 23, 1635-1640.	21.0	96
67	Magnetic nanoparticle-loaded polymer nanospheres as magnetic hyperthermia agents. <i>Journal of Materials Chemistry B</i> , 2014, 2, 120-128.	5.8	96
68	Tetracyanoquaterylene and Tetracyanohexarylenequinodimethanes with Tunable Ground States and Strong Near-Infrared Absorption. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8561-8565.	13.8	94
69	Push-Pull Type Oligo( <i>N</i> -annulated perylene)quinodimethanes: Chain Length and Solvent-Dependent Ground States and Physical Properties. <i>Journal of the American Chemical Society</i> , 2015, 137, 8572-8583.	13.7	93
70	Synthesis of ZnO-Pt nanoflowers and their photocatalytic applications. <i>Nanotechnology</i> , 2010, 21, 185606.	2.6	92
71	Short-range structural signature of excess specific heat and fragility of metallic-glass-forming supercooled liquids. <i>Physical Review B</i> , 2012, 85, .	3.2	92
72	A Peritetracene Diradicaloid: Synthesis and Properties. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9697-9701.	13.8	92

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73	Vitamin E (d-alpha-tocopheryl-co-poly(ethylene glycol) 1000 succinate) micelles-superparamagnetic iron oxide nanoparticles for enhanced radiotherapy and MRI. <i>Biomaterials</i> , 2011, 32, 5663-5672.	11.4	90
74	Tuning the Spin Density of Cobalt Single-Atom Catalysts for Efficient Oxygen Evolution. <i>ACS Nano</i> , 2021, 15, 7105-7113.	14.6	90
75	Origin of Long-Range Ferromagnetic Ordering in Metal-Organic Frameworks with Antiferromagnetic Dimeric-Cu(II) Building Units. <i>Journal of the American Chemical Society</i> , 2012, 134, 17286-17290.	13.7	86
76	Catalytic growth of carbon nanoballs with and without cobalt encapsulation. <i>Chemical Physics Letters</i> , 2000, 330, 41-47.	2.6	85
77	Electrically Adjustable, Super Adhesive Force of a Superhydrophobic Aligned MnO <sub>2</sub> Nanotube Membrane. <i>Advanced Functional Materials</i> , 2011, 21, 184-190.	14.9	85
78	Second-Nearest-Neighbor Correlations from Connection of Atomic Packing Motifs in Metallic Glasses and Liquids. <i>Scientific Reports</i> , 2015, 5, 17429.	3.3	83
79	Inducing High Coercivity in MoS <sub>2</sub> Nanosheets by Transition Element Doping. <i>Chemistry of Materials</i> , 2017, 29, 9066-9074.	6.7	81
80	3D-Printing of Pure Metal-Organic Framework Monoliths. <i>Chemistry of Materials</i> , 2019, 31, 147-153.		80
81	Macroporous Silica Hollow Microspheres as Nanoparticle Collectors. <i>Chemistry of Materials</i> , 2009, 21, 3629-3637.	6.7	79
82	Superheptazethrene. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8615-8619.	13.8	79
83	A 1D Vanadium Dioxide Nanochannel Constructed via Electric-Field-Induced Ion Transport and its Superior Metal-Insulator Transition. <i>Advanced Materials</i> , 2017, 29, 1702162.	21.0	79
84	Robocasting of dense yttria-stabilized zirconia structures. <i>Journal of Materials Science</i> , 2018, 53, 247-273.	3.7	78
85	Multimaterial 3D-printing of graphene/Li <sub>0.35</sub> Zn <sub>0.3</sub> Fe <sub>2.35</sub> O <sub>4</sub> and graphene/carbonyl iron composites with superior microwave absorption properties and adjustable bandwidth. <i>Carbon</i> , 2020, 167, 62-74.	10.3	78
86	Local Topology vs. Atomic-Level Stresses as a Measure of Disorder: Correlating Structural Indicators for Metallic Glasses. <i>Materials Research Letters</i> , 2013, 1, 3-12.	8.7	77
87	Direct observation of lithium-ion transport under an electrical field in Li <sub>x</sub> CoO <sub>2</sub> nanograins. <i>Scientific Reports</i> , 2013, 3, 1084.	3.3	77
88	Morphological Control of Synthesis and Anomalous Magnetic Properties of 3-D Branched Pt Nanoparticles. <i>Langmuir</i> , 2008, 24, 375-378.	3.5	76
89	Synthesis of Ferromagnetic Fe <sub>0.6</sub> Mn <sub>0.4</sub> O Nanoflowers as a New Class of Magnetic Theranostic Platform for In Vivo T <sub>1</sub> -Dual-Mode Magnetic Resonance Imaging and Magnetic Hyperthermia Therapy. <i>Advanced Healthcare Materials</i> , 2016, 5, 2092-2104.	7.6	75
90	Thiol-Capped ZnO Nanowire/Nanotube Arrays with Tunable Magnetic Properties at Room Temperature. <i>ACS Nano</i> , 2010, 4, 495-505.	14.6	73

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91	Ar <sup>2+</sup> Beam Irradiation-Induced Multivacancies in MoSe <sub>2</sub> Nanosheet for Enhanced Electrochemical Hydrogen Evolution. ACS Energy Letters, 2018, 3, 2167-2172.	17.4	73
92	Digital light processing 3D printing of graphene/carbonyl iron/polymethyl methacrylate nanocomposites for efficient microwave absorption. Composites Part B: Engineering, 2019, 179, 107533.	12.0	73
93	Microlattice Metamaterials with Simultaneous Superior Acoustic and Mechanical Energy Absorption. Small, 2021, 17, e2100336.	10.0	72
94	Microgel Iron Oxide Nanoparticles for Tracking Human Fetal Mesenchymal Stem Cells Through Magnetic Resonance Imaging. Stem Cells, 2009, 27, 1921-1931.	3.2	71
95	Nanoscaled self-alignment of Fe <sub>3</sub> O <sub>4</sub> nanodiscs in ultrathin rGO films with engineered conductivity for electromagnetic interference shielding. Nanoscale, 2016, 8, 15989-15998.	5.6	71
96	One-dimensional stringlike cooperative migration of lithium ions in an ultrafast ionic conductor. Applied Physics Letters, 2012, 101, 031901.	3.3	70
97	Fully Fused Quinoidal/Aromatic Carbazole Macrocycles with Poly-radical Characters. Journal of the American Chemical Society, 2016, 138, 7782-7790.	13.7	70
98	Spatial correlation of elastic heterogeneity tunes the deformation behavior of metallic glasses. Npj Computational Materials, 2018, 4, .	8.7	70
99	Novel synthesis of superparamagnetic magnetite nanoclusters for biomedical applications. Journal of Materials Chemistry, 2011, 21, 14717.	6.7	69
100	Diazulenoindacene Diradicaloids: Syntheses, Properties, and Local (anti)Aromaticity Shift from Neutral to Dicationic State. Angewandte Chemie - International Edition, 2018, 57, 16737-16741.	13.8	69
101	Extended Bis(benzothia)quinodimethanes and Their Dications: From Singlet Diradicaloids to Isoelectronic Structures of Long Acenes. Angewandte Chemie - International Edition, 2016, 55, 9316-9320.	13.8	68
102	Ferrite-based soft and hard magnetic structures by extrusion free-forming. RSC Advances, 2017, 7, 27128-27138.	3.6	68
103	Three-dimensional printed cellular stainless steel as a high-activity catalytic electrode for oxygen evolution. Journal of Materials Chemistry A, 2017, 5, 18176-18182.	10.3	68
104	Computational modeling sheds light on structural evolution in metallic glasses and supercooled liquids. Npj Computational Materials, 2017, 3, .	8.7	67
105	Room-Temperature Magnets Based on 1,3,5-Triazine-Linked Porous Organic Radical Frameworks. Chem, 2019, 5, 1223-1234.	11.7	67
106	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.	13.7	65
107	Synthesis, Structure, and Magnetic Properties of [Li(H <sub>2</sub> O)M(N <sub>2</sub> H <sub>3</sub> CO <sub>2</sub> ) <sub>3</sub> ]·0.5H <sub>2</sub> O (M = Co, Ni) as Single Precursors to LiMO <sub>2</sub> Battery Materials. Chemistry of Materials, 2006, 18, 1587-1594.	6.7	64
108	Fluorenyl Based Macrocyclic Polyradicaloids. Journal of the American Chemical Society, 2017, 139, 13173-13183.	13.7	64

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109	Engineering Magnetic Properties of Ni Nanoparticles by Non-Magnetic Cores. <i>Chemistry of Materials</i> , 2009, 21, 5222-5228.	6.7	63
110	Intrinsic Ferromagnetism in the Diluted Magnetic Semiconductor $\text{CoTiO}_3$ . <i>Physical Review Letters</i> , 2016, 117, 227202.	7.8	63
111	Extremely low frequency alternating magnetic field-triggered and MRI-traced drug delivery by optimized magnetic zeolitic imidazolate framework-90 nanoparticles. <i>Nanoscale</i> , 2016, 8, 3259-3263.	5.6	63
112	Facile synthesis of water-stable magnetite nanoparticles for clinical MRI and magnetic hyperthermia applications. <i>Nanomedicine</i> , 2010, 5, 1571-1584.	3.3	61
113	Ferromagnetic ordering in Mn-doped ZnO nanoparticles. <i>Nanoscale Research Letters</i> , 2014, 9, 625.	5.7	61
114	Cyclopenta Ring Fused Bisanthene and Its Charged Species with Open-shell Singlet Diradical Character and Global Aromaticity/Antiaromaticity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11415-11419.	13.8	61
115	Copper dopants improved the hydrogen evolution activity of earth-abundant cobalt pyrite catalysts by activating the electrocatalytically inert sulfur sites. <i>Journal of Materials Chemistry A</i> , 2017, 5, 17601-17608.	10.3	61
116	Nanoscale Magnetization Reversal Caused by Electric Field-Induced Ion Migration and Redistribution in Cobalt Ferrite Thin Films. <i>ACS Nano</i> , 2015, 9, 4210-4218.	14.6	60
117	Ab initio modeling of the energy landscape for screw dislocations in body-centered cubic high-entropy alloys. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	58
118	Charge-transfer-enhanced prism-type local order in amorphous Mg <sub>65</sub> Cu <sub>25</sub> Y <sub>10</sub> : Short-to-medium-range structural evolution underlying liquid fragility and heat capacity. <i>Acta Materialia</i> , 2013, 61, 3130-3140.	7.9	57
119	Heterogeneously tempered martensitic high strength steel by selective laser melting and its micro-lattice: Processing, microstructure, superior performance and mechanisms. <i>Materials and Design</i> , 2019, 178, 107881.	7.0	56
120	Mesoporous carbon decorated graphene as an efficient electrode material for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7469.	10.3	55
121	Metallization of 3D Printed Polymers and Their Application as a Fully Functional Water-Splitting System. <i>Advanced Science</i> , 2019, 6, 1801670.	11.2	55
122	Global Aromaticity in Macrocyclic Cyclopenta-fused Tetraphenanthrenylene Tetradicaloid and Its Charged Species. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13052-13056.	13.8	54
123	Machine learning bridges local static structure with multiple properties in metallic glasses. <i>Materials Today</i> , 2020, 40, 48-62.	14.2	54
124	GO-Functionalized Large Magnetic Iron Oxide Nanoparticles with Enhanced Colloidal Stability and Hyperthermia Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 22703-22713.	8.0	53
125	3D-printed surface-patterned ceramic membrane with enhanced performance in crossflow filtration. <i>Journal of Membrane Science</i> , 2020, 606, 118138.	8.2	53
126	A Three-dimensionally Conjugated Diradical Molecular Cage. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15383-15387.	13.8	52



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127	Super-hygroscopic film for wearables with dual functions of expediting sweat evaporation and energy harvesting. Nano Energy, 2020, 75, 104873.	16.0	52
128	Robust, 3D-printed hydratable plastics for effective solar desalination. Nano Energy, 2021, 79, 105436.	16.0	52
129	SYNTHESIS OF MAGNETITE NANOPARTICLES BY THERMAL DECOMPOSITION: TIME, TEMPERATURE, SURFACTANT AND SOLVENT EFFECTS. Functional Materials Letters, 2008, 01, 189-193.	1.2	51
130	Correlating local structure with inhomogeneous elastic deformation in a metallic glass. Applied Physics Letters, 2012, 101, .	3.3	51
131	Strain Engineering of Octahedral Rotations and Physical Properties of SrRuO <sub>3</sub> Films. Scientific Reports, 2015, 5, 10245.	3.3	51
132	A 3D-printing method of fabrication for metals, ceramics, and multi-materials using a universal self-curable technique for robocasting. Materials Horizons, 2020, 7, 1083-1090.	12.2	51
133	Elucidating the Nature of the Cu(I) Active Site in CuO/TiO <sub>2</sub> for Excellent Low-Temperature CO Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 7091-7101.	8.0	51
134	Robust pure copper framework by extrusion 3D printing for advanced lithium metal anodes. Journal of Materials Chemistry A, 2020, 8, 9058-9067.	10.3	51
135	Size-dependent microwave absorption properties of Fe <sub>3</sub> O <sub>4</sub> nanodiscs. RSC Advances, 2016, 6, 25444-25448.	3.6	50
136	Room temperature ferromagnetism in N-doped rutile TiO <sub>2</sub> films. Journal of Applied Physics, 2011, 109, 07C302.	2.5	48
137	Turning on the biradical state of tetracyano-perylene and quaterrylenequinodimethanes by incorporation of additional thiophene rings. Chemical Science, 2014, 5, 3072-3080.	7.4	48
138	The use of microgel iron oxide nanoparticles in studies of magnetic resonance relaxation and endothelial progenitor cell labelling. Biomaterials, 2010, 31, 3296-3306.	11.4	46
139	Coating Engineering of MnFe <sub>2</sub> O <sub>4</sub> Nanoparticles with Superhigh T <sub>2</sub> Relaxivity and Efficient Cellular Uptake for Highly Sensitive Magnetic Resonance Imaging. Advanced Materials Interfaces, 2014, 1, 1300069.	3.7	46
140	Quinodimethane-Bridged Perylene Dimers and Pericondensed Quaterrylenes: The Effect of the Fusion Mode on the Ground States and Physical Properties. Chemistry - A European Journal, 2014, 20, 11410-11420.	3.3	46
141	Direct measurement of nanostructural change during in situ deformation of a bulk metallic glass. Nature Communications, 2019, 10, 2445.	12.8	46
142	Re doping induced 2H-1T phase transformation and ferromagnetism in MoS <sub>2</sub> nanosheets. Applied Physics Letters, 2018, 113, .	3.3	45
143	A Stable [4,3]Perylene Diradicaloid: Synthesis, Structure, and Electronic Properties. Angewandte Chemie - International Edition, 2021, 60, 4464-4469.	13.8	45
144	Inducing ferromagnetism in ZnO through doping of nonmagnetic elements. Applied Physics Letters, 2008, 93, .	3.3	44

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