

Jun Ding

List of Publications by Year in descending order

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papers

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times ranked

21908
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#	ARTICLE	IF	CITATIONS
1	Hollow Mo-doped CoP nanoarrays for efficient overall water splitting. <i>Nano Energy</i> , 2018, 48, 73-80.	16.0	608
2	Ferromagnetism in Dilute Magnetic Semiconductors through Defect Engineering: Li-Doped ZnO. <i>Physical Review Letters</i> , 2010, 104, 137201.	7.8	428
3	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1705516.	21.0	375
4	Oxygen Vacancy Promoted O ₂ Activation over Perovskite Oxide for Low-Temperature CO Oxidation. <i>ACS Catalysis</i> , 2019, 9, 9751-9763.	11.2	296
5	Dual-Functional N Dopants in Edges and Basal Plane of MoS ₂ Nanosheets Toward Efficient and Durable Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2017, 7, 1602086.	19.5	286
6	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
7	Chemically Exfoliated VSe ₂ Monolayers with Room-Temperature Ferromagnetism. <i>Advanced Materials</i> , 2019, 31, e1903779.	21.0	251
8	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
9	Magnetic Molybdenum Disulfide Nanosheet Films. <i>Nano Letters</i> , 2007, 7, 2370-2376.	9.1	239
10	Metallic Ni ₃ 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
11	TMD-based highly efficient electrocatalysts developed by combined computational and experimental approaches. <i>Chemical Society Reviews</i> , 2018, 47, 4332-4356.	38.1	232
12	Activating and Optimizing Activity of CoS ₂ 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
13	Correlated d ferromagnetism and photoluminescence in undoped ZnO nanowires. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	226
14	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
15	Ceramic Robocasting: Recent Achievements, Potential, and Future Developments. <i>Advanced Materials</i> , 2018, 30, e1802404.	21.0	218
16	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
17	Single-Crystalline MFe ₂ O ₄ Nanotubes/Nanorings Synthesized by Thermal Transformation Process for Biological Applications. <i>ACS Nano</i> , 2009, 3, 2798-2808.	14.6	211
18	Optimization of surface coating on Fe ₃ O ₄ nanoparticles for high performance magnetic hyperthermia agents. <i>Journal of Materials Chemistry</i> , 2012, 22, 8235.	6.7	208

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19	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
20	3D-Printed MOF-Derived Hierarchically Porous Frameworks for Practical High-Energy Density Li-O ₂ Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1806658.	14.9	197
21	Low temperature propane oxidation over Co ₃ 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
22	Nanopowders Synthesized by Mechanochemical Processing. <i>Advanced Materials</i> , 2001, 13, 1008-1010.	21.0	171
23	Pushing Extended <i>p</i> -Quinodimethanes to the Limit: Stable Tetracyano-oligo(<i>N</i> -annulated) Tj ETQq1 1 0.784314 rgBT /Ove 2013, 135, 6363-6371.	13.7	170
24	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
25	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
26	Monodisperse silicananoparticles encapsulating upconversion fluorescent and superparamagnetic nanocrystals. <i>Chemical Communications</i> , 2008, , 694-696.	4.1	160
27	Robust Room-Temperature Ferromagnetism with Giant Anisotropy in Nd-Doped ZnO Nanowire Arrays. <i>Nano Letters</i> , 2012, 12, 3994-4000.	9.1	157
28	Carbon Nanotube-Encapsulated Noble Metal Nanoparticle Hybrid as a Cathode Material for Li-Oxygen Batteries. <i>Advanced Functional Materials</i> , 2014, 24, 6516-6523.	14.9	157
29	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
30	Toward Two-Dimensional π -Conjugated Covalent Organic Radical Frameworks. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8007-8011.	13.8	140
31	Design and Manufacture of 3D-Printed Batteries. <i>Joule</i> , 2021, 5, 89-114.	24.0	137
32	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
33	Enhanced oxygen evolution reaction by Co-O-C bonds in rationally designed Co ₃ O ₄ /graphene nanocomposites. <i>Nano Energy</i> , 2017, 33, 445-452.	16.0	131
34	Activating Basal Planes and S-Terminated Edges of MoS ₂ toward More Efficient Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2017, 27, 1604943.	14.9	131
35	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
36	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

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37	Orientation Mediated Enhancement on Magnetic Hyperthermia of Fe ₃ O ₄ Nanodisc. <i>Advanced Functional Materials</i> , 2015, 25, 812-820.	14.9	121
38	Higher Order π -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
39	Rylene Ribbons with Unusual Diradical Character. <i>CheM</i> , 2017, 2, 81-92.	11.7	116
40	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
41	Dual π -Native Vacancy Activated Basal Plane and Conductivity of MoSe ₂ with High π -Efficiency Hydrogen Evolution Reaction. <i>Small</i> , 2018, 14, e1704150.	10.0	114
42	Synthesis of Manganese Ferrite/Graphene Oxide Nanocomposites for Biomedical Applications. <i>Small</i> , 2012, 8, 3620-3630.	10.0	113
43	Boosting catalytic propane oxidation over PGM-free Co ₃ O ₄ 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
44	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
45	Macrocyclic Polyradicaloids with Unusual Super-ring Structure and Global Aromaticity. <i>CheM</i> , 2018, 4, 1586-1595.	11.7	110
46	Activation of the MoSe ₂ 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
47	Manipulating the surface coating of ultra-small Gd ₂ O ₃ nanoparticles for improved T1-weighted MR imaging. <i>Biomaterials</i> , 2014, 35, 1636-1642.	11.4	108
48	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
49	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
50	3D-Printed Anti-Fouling Cellulose Mesh for Highly Efficient Oil/Water Separation Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13787-13795.	8.0	102
51	Printable two-dimensional superconducting monolayers. <i>Nature Materials</i> , 2021, 20, 181-187.	27.5	102
52	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
53	3D global aromaticity in a fully conjugated diradicaloid cage at different oxidation states. <i>Nature Chemistry</i> , 2020, 12, 242-248.	13.6	101
54	Bioinspired Fractal Design of Waste Biomass π -Derived Solar π -Thermal Materials for Highly Efficient Solar Evaporation. <i>Advanced Functional Materials</i> , 2021, 31, 2007648.	14.9	98

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55	Defects engineering induced room temperature ferromagnetism in transition metal doped MoS ₂ . <i>Materials and Design</i> , 2017, 121, 77-84.	7.0	97
56	Mutual Ferromagnetic-Ferroelectric Coupling in Multiferroic Copper-Doped ZnO. <i>Advanced Materials</i> , 2011, 23, 1635-1640.	21.0	96
57	Magnetic nanoparticle-loaded polymer nanospheres as magnetic hyperthermia agents. <i>Journal of Materials Chemistry B</i> , 2014, 2, 120-128.	5.8	96
58	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
59	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
60	Synthesis of ZnO-Pt nanoflowers and their photocatalytic applications. <i>Nanotechnology</i> , 2010, 21, 185606.	2.6	92
61	Tunable Electrical Conductivity and Magnetic Property of the Two Dimensional Metal Organic Framework [Cu(TPyP) ₂ (O) ₂ CCH ₃] ₄ . <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 16154-16159.	8.0	92
62	A Peri-tetracene Diradicaloid: Synthesis and Properties. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9697-9701.	13.8	92
63	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
64	Tuning the Spin Density of Cobalt Single-Atom Catalysts for Efficient Oxygen Evolution. <i>ACS Nano</i> , 2021, 15, 7105-7113.	14.6	90
65	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
66	Catalytic growth of carbon nanoballs with and without cobalt encapsulation. <i>Chemical Physics Letters</i> , 2000, 330, 41-47.	2.6	85
67	New salicidation technology with Ni(Pt) alloy for MOSFETs. <i>IEEE Electron Device Letters</i> , 2001, 22, 568-570.	3.9	85
68	Inducing High Coercivity in MoS ₂ Nanosheets by Transition Element Doping. <i>Chemistry of Materials</i> , 2017, 29, 9066-9074.	6.7	81
69	Macroporous Silica Hollow Microspheres as Nanoparticle Collectors. <i>Chemistry of Materials</i> , 2009, 21, 3629-3637.	6.7	79
70	Superheptazethrene. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8615-8619.	13.8	79
71	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
72	Robocasting of dense yttria-stabilized zirconia structures. <i>Journal of Materials Science</i> , 2018, 53, 247-273.	3.7	78

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73	Multimaterial 3D-printing of graphene/Li _{0.35} Zn _{0.3} Fe _{2.35} O ₄ and graphene/carbonyl iron composites with superior microwave absorption properties and adjustable bandwidth. Carbon, 2020, 167, 62-74.	10.3	78
74	Direct observation of lithium-ion transport under an electrical field in Li _x CoO ₂ nanograins. Scientific Reports, 2013, 3, 1084.	3.3	77
75	Morphological Control of Synthesis and Anomalous Magnetic Properties of 3-D Branched Pt Nanoparticles. Langmuir, 2008, 24, 375-378.	3.5	76
76	Synthesis of Ferromagnetic Fe _{0.6} Mn _{0.4} O Nanoflowers as a New Class of Magnetic Theranostic Platform for In Vivo T ₁ -T ₂ Dual-Mode Magnetic Resonance Imaging and Magnetic Hyperthermia Therapy. Advanced Healthcare Materials, 2016, 5, 2092-2104.	7.6	75
77	Thiol-Capped ZnO Nanowire/Nanotube Arrays with Tunable Magnetic Properties at Room Temperature. ACS Nano, 2010, 4, 495-505.	14.6	73
78	Ar ²⁺ Beam Irradiation-Induced Multivacancies in MoSe ₂ Nanosheet for Enhanced Electrochemical Hydrogen Evolution. ACS Energy Letters, 2018, 3, 2167-2172.	17.4	73
79	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
80	Microlattice Metamaterials with Simultaneous Superior Acoustic and Mechanical Energy Absorption. Small, 2021, 17, e2100336.	10.0	72
81	Microgel Iron Oxide Nanoparticles for Tracking Human Fetal Mesenchymal Stem Cells Through Magnetic Resonance Imaging. Stem Cells, 2009, 27, 1921-1931.	3.2	71
82	Nanoscaled self-alignment of Fe ₃ O ₄ nanodiscs in ultrathin rGO films with engineered conductivity for electromagnetic interference shielding. Nanoscale, 2016, 8, 15989-15998.	5.6	71
83	Fully Fused Quinoidal/Aromatic Carbazole Macrocycles with Poly-radical Characters. Journal of the American Chemical Society, 2016, 138, 7782-7790.	13.7	70
84	Novel synthesis of superparamagnetic magnetite nanoclusters for biomedical applications. Journal of Materials Chemistry, 2011, 21, 14717.	6.7	69
85	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
86	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
87	Ferrite-based soft and hard magnetic structures by extrusion free-forming. RSC Advances, 2017, 7, 27128-27138.	3.6	68
88	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
89	Room-Temperature Magnets Based on 1,3,5-Triazine-Linked Porous Organic Radical Frameworks. Chem, 2019, 5, 1223-1234.	11.7	67
90	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

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91	Effects of dielectric fluids on surface integrity for the recast layer in high speed EDM drilling of nickel alloy. <i>Journal of Alloys and Compounds</i> , 2019, 783, 95-102.	5.5	65
92	Synthesis, Structure, and Magnetic Properties of $[\text{Li}(\text{H}_2\text{O})\text{M}(\text{N}_2\text{H}_3\text{CO}_2)_3] \cdot 0.5\text{H}_2\text{O}$ (M = Co, Ni) as Single Precursors to LiMO_2 Battery Materials. <i>Chemistry of Materials</i> , 2006, 18, 1587-1594.	6.7	64
93	Size dependent magnetic hyperthermia of octahedral Fe_3O_4 nanoparticles. <i>RSC Advances</i> , 2015, 5, 76764-76771.	3.6	64
94	Bovine Serum Albumin-Conjugated Ferrimagnetic Iron Oxide Nanoparticles to Enhance the Biocompatibility and Magnetic Hyperthermia Performance. <i>Nano-Micro Letters</i> , 2016, 8, 80-93.	27.0	64
95	Fluorenyl Based Macrocyclic Polyradicaloids. <i>Journal of the American Chemical Society</i> , 2017, 139, 13173-13183.	13.7	64
96	Engineering Magnetic Properties of Ni Nanoparticles by Non-Magnetic Cores. <i>Chemistry of Materials</i> , 2009, 21, 5222-5228.	6.7	63
97	Intrinsic Ferromagnetism in the Diluted Magnetic Semiconductor $\text{Co}_{1-x}\text{Ti}_x\text{O}$. <i>Physical Review Letters</i> , 2016, 117, 227202.	7.8	63
98	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
99	Facile synthesis of water-stable magnetite nanoparticles for clinical MRI and magnetic hyperthermia applications. <i>Nanomedicine</i> , 2010, 5, 1571-1584.	3.3	61
100	Ferromagnetic ordering in Mn-doped ZnO nanoparticles. <i>Nanoscale Research Letters</i> , 2014, 9, 625.	5.7	61
101	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
102	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
103	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
104	Fine Strontium Ferrite Powders from an Ethanol-Based Microemulsion. <i>Journal of the American Ceramic Society</i> , 2000, 83, 1049-1055.	3.8	58
105	Synthesis of NiS and MnS Nanocrystals from the Molecular Precursors $(\text{TMEDA})\text{M}(\text{SC}_6\text{H}_5)_2$ (M = Ni, Mn). <i>Crystal Growth and Design</i> , 2009, 9, 352-357.	3.0	58
106	High coercivity in SiO_2 -doped CoFe_2O_4 powders and thin films. <i>Applied Physics Letters</i> , 2000, 77, 3621-3623.	3.3	57
107	Room temperature ferromagnetism in Teflon due to carbon dangling bonds. <i>Nature Communications</i> , 2012, 3, 727.	12.8	56
108	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

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109	Mesoporous carbon decorated graphene as an efficient electrode material for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7469.	10.3	55
110	Solution-Processed Highly Superparamagnetic and Conductive PEDOT:PSS/Fe ₃ O ₄ Nanocomposite Films with High Transparency and High Mechanical Flexibility. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 19001-19010.	8.0	55
111	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
112	Silver nanoparticles disrupt germline stem cell maintenance in the <i>Drosophila</i> testis. <i>Scientific Reports</i> , 2016, 6, 20632.	3.3	54
113	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
114	GO-Functionalized Large Magnetic Iron Oxide Nanoparticles with Enhanced Colloidal Stability and Hyperthermia Performance. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22703-22713.	8.0	53
115	3D-printed surface-patterned ceramic membrane with enhanced performance in crossflow filtration. <i>Journal of Membrane Science</i> , 2020, 606, 118138.	8.2	53
116	A Three-Dimensionally Conjugated Diradical Molecular Cage. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15383-15387.	13.8	52
117	3D-printed ceramic structures with in situ grown whiskers for effective oil/water separation. <i>Chemical Engineering Journal</i> , 2019, 373, 1223-1232.	12.7	52
118	Super-hygroscopic film for wearables with dual functions of expediting sweat evaporation and energy harvesting. <i>Nano Energy</i> , 2020, 75, 104873.	16.0	52
119	Robust, 3D-printed hydratable plastics for effective solar desalination. <i>Nano Energy</i> , 2021, 79, 105436.	16.0	52
120	A 3D-printing method of fabrication for metals, ceramics, and multi-materials using a universal self-curable technique for robocasting. <i>Materials Horizons</i> , 2020, 7, 1083-1090.	12.2	51
121	Elucidating the Nature of the Cu(I) Active Site in CuO/TiO ₂ for Excellent Low-Temperature CO Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7091-7101.	8.0	51
122	Robust pure copper framework by extrusion 3D printing for advanced lithium metal anodes. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9058-9067.	10.3	51
123	The coercivity of rapidly quenched alloys. <i>Journal Physics D: Applied Physics</i> , 1999, 32, 713-716.	2.8	50
124	Size-dependent microwave absorption properties of Fe ₃ O ₄ nanodiscs. <i>RSC Advances</i> , 2016, 6, 25444-25448.	3.6	50
125	Turning on the biradical state of tetracyano-perylene and quaterrylenequinodimethanes by incorporation of additional thiophene rings. <i>Chemical Science</i> , 2014, 5, 3072-3080.	7.4	48
126	The use of microgel iron oxide nanoparticles in studies of magnetic resonance relaxation and endothelial progenitor cell labelling. <i>Biomaterials</i> , 2010, 31, 3296-3306.	11.4	46

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127	Coating Engineering of MnFe ₂ O ₄ Nanoparticles with Superhigh Relaxivity and Efficient Cellular Uptake for Highly Sensitive Magnetic Resonance Imaging. <i>Advanced Materials Interfaces</i> , 2014, 1, 1300069.	3.7	46
128	Quinodimethane-Bridged Perylene Dimers and Pericondensed Quaterrylenes: The Effect of the Fusion Mode on the Ground States and Physical Properties. <i>Chemistry - A European Journal</i> , 2014, 20, 11410-11420.	3.3	46
129	Re doping induced 2H-1T phase transformation and ferromagnetism in MoS ₂ nanosheets. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	45
130	A Stable [4,3]Perylene Diradicaloid: Synthesis, Structure, and Electronic Properties. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4464-4469.	13.8	45
131	Stable 3,6-Linked Fluorenyl Radical Oligomers with Intramolecular Antiferromagnetic Coupling and Polyradical Characters. <i>Journal of the American Chemical Society</i> , 2016, 138, 13048-13058.	13.7	44
132	Constructing hierarchical carbon framework and quantifying water transfer for novel solar evaporation configuration. <i>Carbon</i> , 2019, 155, 25-33.	10.3	44
133	Solar-driven efficient methane catalytic oxidation over epitaxial ZnO/La _{0.8} Sr _{0.2} CoO ₃ heterojunctions. <i>Applied Catalysis B: Environmental</i> , 2020, 265, 118469.	20.2	44
134	Syntheses, structures and properties of copper(II) complexes containing N-(2-hydroxybenzyl)-amino amide ligands. <i>Inorganica Chimica Acta</i> , 2006, 359, 3481-3490.	2.4	43
135	Stable vortex magnetite nanorings colloid: Micromagnetic simulation and experimental demonstration. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	43
136	Zn vacancy induced ferromagnetism in K doped ZnO. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11953-11958.	5.5	43
137	Octazethrene and Its Isomer with Different Diradical Characters and Chemical Reactivity: The Role of the Bridge Structure. <i>Journal of Organic Chemistry</i> , 2016, 81, 2911-2919.	3.2	43
138	High Coercivity and Magnetization in WSe ₂ by Codoping Co and Nb. <i>Small</i> , 2020, 16, e1903173.	10.0	43
139	Magnetic properties and magnetic entropy change of amorphous and crystalline GdNiAl ribbons. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 75, 535-539.	2.3	42
140	Additively manufactured heterogeneously porous metallic bone with biostructural functions and bone-like mechanical properties. <i>Journal of Materials Science and Technology</i> , 2021, 62, 173-179.	10.7	42
141	Fabrication of 3D-Printed Ceramic Structures for Portable Solar Desalination Devices. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23220-23229.	8.0	42
142	A facile one-step route to synthesize cage-like silica hollow spheres loaded with superparamagnetic iron oxide nanoparticles in their shells. <i>Chemical Communications</i> , 2009, , 938-940.	4.1	41
143	Enhanced ferromagnetism in WS ₂ via defect engineering. <i>Journal of Alloys and Compounds</i> , 2019, 772, 740-744.	5.5	41
144	A new family of biocompatible and stable magnetic nanoparticles: silica cross-linked pluronic F127 micelles loaded with iron oxides. <i>New Journal of Chemistry</i> , 2009, 33, 88-92.	2.8	40

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