Yanglong Hou

List of Publications by Year
in descending order

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		3325	7333
306	26,205	91	152
papers	citations	h-index	g-index

323	323	323	29903
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis, Functionalization, and Biomedical Applications of Multifunctional Magnetic Nanoparticles. Advanced Materials, 2010, 22, 2729-2742.	11.1	1,260
2	Synthesis of Phosphorusâ€Doped Graphene and its Multifunctional Applications for Oxygen Reduction Reaction and Lithium Ion Batteries. Advanced Materials, 2013, 25, 4932-4937.	11.1	915
3	Magnetic Core/Shell Fe3O4/Au and Fe3O4/Au/Ag Nanoparticles with Tunable Plasmonic Properties. Journal of the American Chemical Society, 2007, 129, 8698-8699.	6.6	853
4	Controlled PEGylation of Monodisperse Fe₃O₄ Nanoparticles for Reduced Nonâ€Specific Uptake by Macrophage Cells. Advanced Materials, 2007, 19, 3163-3166.	11.1	607
5	Fe₅C₂ Nanoparticles: A Facile Bromide-Induced Synthesis and as an Active Phase for Fischerâ€“Tropsch Synthesis. Journal of the American Chemical Society, 2012, 134, 15814-15821.	6.6	529
6	Oleylamine as Both Reducing Agent and Stabilizer in a Facile Synthesis of Magnetite Nanoparticles. Chemistry of Materials, 2009, 21, 1778-1780.	3.2	503
7	Graphene-based nanocomposites for energy storage and conversion in lithium batteries, supercapacitors and fuel cells. Journal of Materials Chemistry A, 2014, 2, 15-32.	5.2	427
8	Synthesis of amino-functionalized graphene as metal-free catalyst and exploration of the roles of various nitrogen states in oxygen reduction reaction. Nano Energy, 2013, 2, 88-97.	8.2	426
9	Hybrid of Iron Nitride and Nitrogenâ€Doped Graphene Aerogel as Synergistic Catalyst for Oxygen Reduction Reaction. Advanced Functional Materials, 2014, 24, 2930-2937.	7.8	391
10	Nanostructured Anode Materials for Lithium Ion Batteries: Progress, Challenge and Perspective. Advanced Energy Materials, 2016, 6, 1600374.	10.2	383
11	A General Strategy for Synthesizing FePt Nanowires and Nanorods. Angewandte Chemie - International Edition, 2007, 46, 6333-6335.	7.2	297
12	Nickel Sulfide/Nitrogenâ€Doped Graphene Composites: Phaseâ€Controlled Synthesis and High Performance Anode Materials for Lithium Ion Batteries. Small, 2013, 9, 1321-1328.	5.2	297
13	Microporous bamboo biochar for lithium-sulfur batteries. Nano Research, 2015, 8, 129-139.	5.8	284
14	Rational Design of Si/SiO₂@Hierarchical Porous Carbon Spheres as Efficient Polysulfide Reservoirs for Highâ€Performance Liâ€“S Battery. Advanced Materials, 2016, 28, 3167-3172.	11.1	275
15	Aqueous dispersions of TCNQ-anion-stabilized graphene sheets. Chemical Communications, 2008, , 6576.	2.2	272
16	Fe3O4 nanostructures: synthesis, growth mechanism, properties and applications. Chemical Communications, 2011, 47, 5130.	2.2	269
17	Controlled Synthesis and Chemical Conversions of FeO Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 6329-6332.	7.2	266
18	Liquid-phase exfoliation, functionalization and applications of graphene. Nanoscale, 2011, 3, 2118.	2.8	265

#	Article	IF	Citations
19	Efficient and Lightweight Electromagnetic Wave Absorber Derived from Metal Organic Framework-Encapsulated Cobalt Nanoparticles. ACS Applied Materials & Interfaces, 2017, 9, 42102-42110.	4.0	247
20	A porous nitrogen and phosphorous dual doped graphene blocking layer for high performance Liâ€“S batteries. Journal of Materials Chemistry A, 2015, 3, 16670-16678.	5.2	241
21	N,B-codoped defect-rich graphitic carbon nanocages as high performance multifunctional electrocatalysts. Nano Energy, 2017, 42, 334-340.	8.2	238
22	A Versatile Route toward the Electromagnetic Functionalization of Metalâ€“Organic Framework-Derived Three-Dimensional Nanoporous Carbon Composites. ACS Applied Materials & Interfaces, 2018, 10, 8965-8975.	4.0	234
23	Multifunctional Fe₅C₂ Nanoparticles: A Targeted Theranostic Platform for Magnetic Resonance Imaging and Photoacoustic Tomographyâ€Guided Photothermal Therapy. Advanced Materials, 2014, 26, 4114-4120.	11.1	232
24	Magnetic Nanomaterials: Chemical Design, Synthesis, and Potential Applications. Accounts of Chemical Research, 2018, 51, 404-413.	7.6	232
25	Graphene and its composites with nanoparticles for electrochemical energy applications. Nano Today, 2014, 9, 668-683.	6.2	230
26	Solvothermal-assisted exfoliation process to produce graphene with high yield and high quality. Nano Research, 2009, 2, 706-712.	5.8	224
27	Multifunctional Co₃S₄/Graphene Composites for Lithium Ion Batteries and Oxygen Reduction Reaction. Chemistry - A European Journal, 2013, 19, 5183-5190.	1.7	219
28	N-P-O co-doped high performance 3D graphene prepared through red phosphorous-assisted â€œcutting-thinâ€•technique: A universal synthesis and multifunctional applications. Nano Energy, 2016, 28, 346-355.	8.2	217
29	High-Yield Preparation of Uniform Cobalt Hydroxide and Oxide Nanoplatelets and Their Characterization. Journal of Physical Chemistry B, 2005, 109, 19094-19098.	1.2	212
30	Hierarchically Porous Fe₂CoSe₄ Binaryâ€Metal Selenide for Extraordinary Rate Performance and Durable Anode of Sodiumâ€Ion Batteries. Advanced Materials, 2018, 30, e1802745.	11.1	201
31	Hybrid of Co₃Sn₂@Co Nanoparticles and Nitrogen-Doped Graphene as a Lithium Ion Battery Anode. ACS Nano, 2013, 7, 10307-10318.	7.3	194
32	Solvothermal reduction synthesis and characterization of superparamagnetic magnetite nanoparticlesElectronic supplementary information (ESI) available: size distributions of samples modified with TOPO + PVP, HDA + PVP, and PVP only. See http://www.rsc.org/suppdata/jm/b3/b305526d/. Journal of Materials Chemistry, 2003, 13, 1983.	6.7	193
33	Enhanced Polysulfide Regulation via Porous Catalytic V₂O₃/V₈C₇ Heterostructures Derived from Metalâ€“Organic Frameworks toward High-Performance Liâ€“S Batteries. ACS Nano, 2020, 14, 8495-8507.	7.3	192
34	Heterostructures of 2D Molybdenum Dichalcogenide on 2D Nitrogenâ€Doped Carbon: Superior Potassiumâ€Ion Storage and Insight into Potassium Storage Mechanism. Advanced Materials, 2020, 32, e2000958.	11.1	192
35	Iron phthalocyanine and nitrogen-doped graphene composite as a novel non-precious catalyst for the oxygen reduction reaction. Nanoscale, 2012, 4, 7326.	2.8	189
36	Monodisperse Auâ€“Fe₂C Janus Nanoparticles: An Attractive Multifunctional Material for Triple-Modal Imaging-Guided Tumor Photothermal Therapy. ACS Nano, 2017, 11, 9239-9248.	7.3	189

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37	Transition metal chalcogenide anodes for sodium storage. Materials Today, 2020, 35, 131-167.	8.3	186
38	Linking Hydrophilic Macromolecules to Monodisperse Magnetite (Fe3O4) Nanoparticles via Trichloro-s-triazine. Chemistry of Materials, 2006, 18, 5401-5403.	3.2	185
39	Smart Hybridization of TiO₂ Nanorods and Fe₃O₄ Nanoparticles with Pristine Graphene Nanosheets: Hierarchically Nanoengineered Ternary Heterostructures for Highâ€Rate Lithium Storage. Advanced Functional Materials, 2015, 25, 3341-3350.	7.8	183
40	Integrated Design of MnO₂@Carbon Hollow Nanoboxes to Synergistically Encapsulate Polysulfides for Empowering Lithium Sulfur Batteries. Small, 2017, 13, 1700087.	5.2	178
41	Efficient Oxygen Reduction Catalysts of Porous Carbon Nanostructures Decorated with Transition Metal Species. Advanced Energy Materials, 2020, 10, 1900375.	10.2	175
42	Size-controlled synthesis of nickel nanoparticles. Applied Surface Science, 2005, 241, 218-222.	3.1	174
43	Monodisperse nickel nanoparticles prepared from a monosurfactant system and their magnetic propertiesElectronic supplementary information (ESI) available: XPS of Ni nanoparticles; plot of magnetization vs. applied field. See http://www.rsc.org/suppdata/jm/b3/b303226d/. Journal of Materials Chemistry, 2003, 13, 1510.	6.7	165
44	Nanostructured cathode materials for lithiumâ€“sulfur batteries: progress, challenges and perspectives. Journal of Materials Chemistry A, 2017, 5, 3014-3038.	5.2	165
45	Turning on Zn 4s Electrons in a N₂â€Znâ€B₂ Configuration to Stimulate Remarkable ORR Performance. Angewandte Chemie - International Edition, 2021, 60, 181-185.	7.2	161
46	Nanoscale Coordination Polymers for Synergistic NO and Chemodynamic Therapy of Liver Cancer. Nano Letters, 2019, 19, 2731-2738.	4.5	158
47	A Facile Synthesis of SmCo₅ Magnets from Core/Shell Co/Sm₂O₃ Nanoparticles. Advanced Materials, 2007, 19, 3349-3352.	11.1	157
48	Near-infrared light and tumor microenvironment dual responsive size-switchable nanocapsules for multimodal tumor theranostics. Nature Communications, 2019, 10, 4418.	5.8	153
49	Single-site pyrrolic-nitrogen-doped sp2-hybridized carbon materials and their pseudocapacitance. Nature Communications, 2020, 11, 3884.	5.8	152
50	Exchange-coupled nanocomposites: chemical synthesis, characterization and applications. Chemical Society Reviews, 2014, 43, 8098-8113.	18.7	149
51	Electrode Nanostructures in Lithiumâ€Based Batteries. Advanced Science, 2014, 1, 1400012.	5.6	148
52	Cobalt selenide decorated carbon spheres for excellent cycling performance of sodium ion batteries. Energy Storage Materials, 2018, 13, 19-28.	9.5	148
53	Magnetic iron oxide nanoparticles: Synthesis and surface coating techniques for biomedical applications. Chinese Physics B, 2014, 23, 037503.	0.7	145
54	Octahedral Fe3O4 nanoparticles and their assembled structures. Chemical Communications, 2009, , 4378.	2.2	143

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55	SnO₂ nanoparticles anchored on carbon foam as a freestanding anode for high performance potassium-ion batteries. Energy and Environmental Science, 2020, 13, 571-578.	15.6	143
56	One-pot synthesis of Fe3O4 nanoprisms with controlled electrochemical properties. Chemical Communications, 2010, 46, 3920.	2.2	140
57	A covalent heterostructure of monodisperse Ni2P immobilized on N, P-co-doped carbon nanosheets for high performance sodium/lithium storage. Nano Energy, 2018, 48, 510-517.	8.2	139
58	3D Vertically Aligned and Interconnected Porous Carbon Nanosheets as Sulfur Immobilizers for High Performance Lithiumâ€Sulfur Batteries. Advanced Energy Materials, 2016, 6, 1502518.	10.2	138
59	Magnetic Reactive Oxygen Species Nanoreactor for Switchable Magnetic Resonance Imaging Guided Cancer Therapy Based on pH-Sensitive Fe₅C₂@Fe₃O₄ Nanoparticles. ACS Nano, 2019, 13, 10002-10014.	7.3	138
60	Multistimuli-Regulated Photochemothermal Cancer Therapy Remotely Controlled via Fe₅C₂ Nanoparticles. ACS Nano, 2016, 10, 159-169.	7.3	136
61	Revisiting the origin of cycling enhanced capacity of Fe3O4 based nanostructured electrode for lithium ion batteries. Nano Energy, 2017, 41, 426-433.	8.2	136
62	Sulfur Hosts against the Shuttle Effect. Small Methods, 2018, 2, 1700345.	4.6	132
63	A conductive interwoven bamboo carbon fiber membrane for Liâ€“S batteries. Journal of Materials Chemistry A, 2015, 3, 9502-9509.	5.2	131
64	3D Porous Cu Current Collectors Derived by Hydrogen Bubble Dynamic Template for Enhanced Li Metal Anode Performance. Advanced Functional Materials, 2019, 29, 1808468.	7.8	130
65	Efficient bacterial capture with amino acid modified magnetic nanoparticles. Water Research, 2014, 50, 124-134.	5.3	125
66	Ultrathin MXene Nanosheets Decorated with TiO₂ Quantum Dots as an Efficient Sulfur Host toward Fast and Stable Liâ€“S Batteries. Small, 2018, 14, e1802443.	5.2	125
67	Itinerant ferromagnetic half metallic cobaltâ€“iron couples: promising bifunctional electrocatalysts for ORR and OER. Journal of Materials Chemistry A, 2019, 7, 27175-27185.	5.2	122
68	Stimuli-responsive cancer therapy based on nanoparticles. Chemical Communications, 2014, 50, 11614-11630.	2.2	121
69	Chlorine-doped carbonated cobalt hydroxide for supercapacitors with enormously high pseudocapacitive performance and energy density. Nano Energy, 2015, 11, 267-276.	8.2	121
70	Self-Assembly of Co Nanoplatelets into Spheres:â€‰ Synthesis and Characterization. Chemistry of Materials, 2005, 17, 3994-3996.	3.2	117
71	Bifunctional catalysts of Co3O4@GCN tubular nanostructured (TNS) hybrids for oxygen and hydrogen evolution reactions. Nano Research, 2015, 8, 3725-3736.	5.8	117
72	Lightweight and Flexible Cotton Aerogel Composites for Electromagnetic Absorption and Shielding Applications. Advanced Electronic Materials, 2020, 6, 1900796.	2.6	117

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73	Synergistic Polarization Loss of MoS₂â€Based Multiphase Solid Solution for Electromagnetic Wave Absorption. Advanced Functional Materials, 2022, 32, .	7.8	116
74	Removal of arsenate by cetyltrimethylammonium bromide modified magnetic nanoparticles. Journal of Hazardous Materials, 2012, 227-228, 461-468.	6.5	115
75	Building Nanocomposite Magnets by Coating a Hard Magnetic Core with a Soft Magnetic Shell. Angewandte Chemie - International Edition, 2014, 53, 2176-2180.	7.2	115
76	Reversible Response of Luminescent Terbium(III)â€“Nanocellulose Hydrogels to Anions for Latent Fingerprint Detection and Encryption. Angewandte Chemie - International Edition, 2018, 57, 6786-6790.	7.2	115
77	Tunable magnetic and microwave absorption properties of Sm1.5Y0.5Fe17-xSix and their composites. Acta Materialia, 2018, 145, 331-336.	3.8	115
78	Threeâ€Dimensional Nitrogenâ€Doped Graphene Nanoribbons Aerogel as a Highly Efficient Catalyst for the Oxygen Reduction Reaction. Small, 2015, 11, 1423-1429.	5.2	114
79	Controlled Growth and Thicknessâ€Dependent Conductionâ€Type Transition of 2D Ferrimagnetic Cr₂S₃ Semiconductors. Advanced Materials, 2020, 32, e1905896.	11.1	114
80	Cobalt/polypyrrole nanocomposites with controllable electromagnetic properties. Nanoscale, 2015, 7, 7189-7196.	2.8	113
81	Activating interfacial S sites of MoS2 boosts hydrogen evolution electrocatalysis. Nano Research, 2022, 15, 1809-1816.	5.8	111
82	Synthesis and electrocatalytic properties of PtBi nanoplatelets and PdBi nanowires. Nanoscale, 2014, 6, 1049-1055.	2.8	109
83	Manipulation of Edgeâ€Site Feâ€“N₂ Moiety on Holey Fe, N Codoped Graphene to Promote the Cycle Stability and Rate Capacity of Liâ€“S Batteries. Advanced Functional Materials, 2019, 29, 1807485.	7.8	109
84	Molecular level distribution of black phosphorus quantum dots on nitrogen-doped graphene nanosheets for superior lithium storage. Nano Energy, 2016, 30, 347-354.	8.2	107
85	N-Doped Carbon Nanosheet Networks with Favorable Active Sites Triggered by Metal Nanoparticles as Bifunctional Oxygen Electrocatalysts. ACS Energy Letters, 2018, 3, 2914-2920.	8.8	107
86	Modulating the phases of iron carbide nanoparticles: from a perspective of interfering with the carbon penetration of Fe@Fe₃O₄ by selectively adsorbed halide ions. Chemical Science, 2017, 8, 473-481.	3.7	105
87	Multi-electron reaction materials for sodium-based batteries. Materials Today, 2018, 21, 960-973.	8.3	103
88	Fabrication of hierarchical hollow Mn doped Ni(OH)2 nanostructures with enhanced catalytic activity towards electrochemical oxidation of methanol. Nano Energy, 2019, 55, 37-41.	8.2	100
89	Hollow iron oxide nanoparticles as multidrug resistant drug delivery and imaging vehicles. Nano Research, 2013, 6, 1-9.	5.8	99
90	Magnetic nanoparticles grafted with amino-riched dendrimer as magnetic flocculant for efficient harvesting of oleaginous microalgae. Chemical Engineering Journal, 2016, 297, 304-314.	6.6	99

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91	Visualization nanozyme based on tumor microenvironment â€œunlockingâ€•for intensive combination therapy of breast cancer. Science Advances, 2020, 6, .	4.7	97
92	Single-crystalline Î±-Fe2O3 nanostructures: controlled synthesis and high-index plane-enhanced photodegradation by visible light. Journal of Materials Chemistry A, 2013, 1, 6888.	5.2	96
93	Nitrogenâ€Doped Carbon Nanotube Aerogels for Highâ€Performance ORR Catalysts. Small, 2015, 11, 3903-3908.	5.2	96
94	Polar and conductive iron carbide@N-doped porous carbon nanosheets as a sulfur host for high performance lithium sulfur batteries. Chemical Engineering Journal, 2019, 358, 962-968.	6.6	91
95	Facile self-assembly synthesis of titanate/Fe₃O₄nanocomposites for the efficient removal of Pb²⁺from aqueous systems. Journal of Materials Chemistry A, 2013, 1, 805-813.	5.2	89
96	Building Nanocomposite Magnets by Coating a Hard Magnetic Core with a Soft Magnetic Shell. Angewandte Chemie, 2014, 126, 2208-2212.	1.6	89
97	An electron deficiency strategy for enhancing hydrogen evolution on CoP nano-electrocatalysts. Nano Energy, 2018, 50, 273-280.	8.2	89
98	Preparation and Characterization of Monodisperse FePd Nanoparticles. Chemistry of Materials, 2004, 16, 5149-5152.	3.2	86
99	Sm Co 5 âˆ• Fe nanocomposites synthesized from reductive annealing of oxide nanoparticles. Applied Physics Letters, 2007, 91, .	1.5	85
100	Eliminating Dendrites and Side Reactions via a Multifunctional ZnSe Protective Layer toward Advanced Aqueous Zn Metal Batteries. Advanced Functional Materials, 2021, 31, 2100186.	7.8	85
101	One Dimensional Graphitic Carbon Nitrides as Effective Metal-Free Oxygen Reduction Catalysts. Scientific Reports, 2015, 5, 12389.	1.6	81
102	In situ Fe₂N@N-doped porous carbon hybrids as superior catalysts for oxygen reduction reaction. Nanoscale, 2017, 9, 8102-8106.	2.8	80
103	MXenes: Synthesis strategies and lithium-sulfur battery applications. EScience, 2022, 2, 164-182.	25.0	80
104	Enzymeâ€Responsive Multifunctional Magnetic Nanoparticles for Tumor Intracellular Drug Delivery and Imaging. Chemistry - an Asian Journal, 2011, 6, 1381-1389.	1.7	76
105	Facile Preparation of Nitrogen-Doped Few-Layer Graphene via Supercritical Reaction. ACS Applied Materials & Interfaces, 2011, 3, 2259-2264.	4.0	75
106	Hydrothermal Synthesis and Crystal Structure of a Novel Two-Dimensional Vanadium Oxide Complex with a 6,14-Net Sinusoidal Ruffling Anionic Layer:â€‰ [Ni(phen)2V4O11] (phen = 1,10-Phenanthroline). Inorganic Chemistry, 2002, 41, 140-143.	1.9	74
107	Stable lithium metal anode enabled by lithium metal partial alloying. Nano Energy, 2019, 65, 103989.	8.2	73
108	Inorganic Nanocrystal Self-Assembly via the Inclusion Interaction of Î²-Cyclodextrins:â€‰ Toward 3D Spherical Magnetite. Journal of Physical Chemistry B, 2005, 109, 4845-4852.	1.2	71

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109	Transition Metal (Fe, Co and Ni) Carbide and Nitride Nanomaterials: Structure, Chemical Synthesis and Applications. ChemNanoMat, 2015, 1, 376-398.	1.5	71
110	Light-weight Gadolinium Hydroxide@polypyrrole Rare-Earth Nanocomposites with Tunable and Broadband Electromagnetic Wave Absorption. ACS Applied Materials & Interfaces, 2019, 11, 12752-12760.	4.0	69
111	Chemical Confinement and Utility of Lithium Polysulfides in Lithium Sulfur Batteries. Small Methods, 2020, 4, 1900001.	4.6	68
112	Bactericidal mechanisms of Ag2O/TNBs under both dark and light conditions. Water Research, 2013, 47, 1837-1847.	5.3	67
113	Construction of Synergistic Fe₅C₂/Co Heterostructured Nanoparticles as an Enhanced Low Temperature Fischerâ€“Tropsch Synthesis Catalyst. ACS Catalysis, 2017, 7, 5661-5667.	5.5	67
114	Inherent multifunctional inorganic nanomaterials for imaging-guided cancer therapy. Nano Today, 2019, 26, 108-122.	6.2	67
115	Comprehensive Analyses of Aqueous Zn Metal Batteries: Characterization Methods, Simulations, and Theoretical Calculations. Advanced Energy Materials, 2021, 11, 2003823.	10.2	66
116	Hole-rich CoP nanosheets with an optimized d-band center for enhancing pH-universal hydrogen evolution electrocatalysis. Journal of Materials Chemistry A, 2021, 9, 8561-8567.	5.2	66
117	Multifunctional Nitrogen-Doped Loofah Sponge Carbon Blocking Layer for High-Performance Rechargeable Lithium Batteries. ACS Applied Materials & Interfaces, 2016, 8, 15991-16001.	4.0	64
118	Ultrathin Fe₂O₃ nanoflakes using smart chemical stripping for high performance lithium storage. Journal of Materials Chemistry A, 2017, 5, 18737-18743.	5.2	62
119	Atomic-Scale Structure of Nanocrystals by High-Energy X-ray Diffraction and Atomic Pair Distribution Function Analysis:â€‰ Study of FexPd100-x(x= 0, 26, 28, 48) Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 714-720.	1.5	61
120	Rechargeable metal batteries based on selenium cathodes: progress, challenges and perspectives. Journal of Materials Chemistry A, 2019, 7, 11566-11583.	5.2	61
121	Noble metal-free catalysts for oxygen reduction reaction. Science China Chemistry, 2017, 60, 1494-1507.	4.2	60
122	Magnetic Structure and Metamagnetic Transitions in the van der Waals Antiferromagnet CrPS₄. Advanced Materials, 2020, 32, e2001200.	11.1	60
123	Solvothermal reduction synthesis and magnetic properties of polymer protected iron and nickel nanocrystals. Journal of Alloys and Compounds, 2004, 365, 112-116.	2.8	59
124	Single Domain SmCo5@Co Exchange-coupled Magnets Prepared from Core/shell Sm[Co(CN)6]Â·4H2O@GO Particles: A Novel Chemical Approach. Scientific Reports, 2013, 3, 3542.	1.6	59
125	Fe₅C₂ Nanoparticles with High MRI Contrast Enhancement for Tumor Imaging. Small, 2014, 10, 1245-1249.	5.2	58
126	Iron carbide nanoparticles: an innovative nanoplatform for biomedical applications. Nanoscale Horizons, 2017, 2, 81-88.	4.1	57

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127	Efficient polysulfides anchoring for Li-S batteries: Combined physical adsorption and chemical conversion in V2O5 hollow spheres wrapped in nitrogen-doped graphene network. Chemical Engineering Journal, 2019, 378, 122189.	6.6	57
128	Polyanion-type electrode materials for advanced sodium-ion batteries. Materials Today Nano, 2020, 10, 100072.	2.3	57
129	Phonon scattering and exciton localization: molding exciton flux in two dimensional disorder energy landscape. ELight, 2021, 1, .	11.9	57
130	Controllable Nd₂Fe₁₄B/Î±-Fe nanocomposites: chemical synthesis and magnetic properties. Nanoscale, 2014, 6, 10638-10642.	2.8	55
131	Rational design of MXene@TiO₂ nanoarray enabling dual lithium polysulfide chemisorption towards high-performance lithiumâ€“sulfur batteries. Nanoscale, 2020, 12, 16678-16684.	2.8	55
132	Freeâ€Standing, Foldable V₂O₃/Multichannel Carbon Nanofibers Electrode for Flexible Liâ€Ion Batteries with Ultralong Lifespan. Small, 2020, 16, e2005302.	5.2	54
133	The ORR electron transfer kinetics control via Co-N and graphitic N sites in cobalt single atom catalysts in alkaline and acidic media. Journal of Energy Chemistry, 2022, 68, 184-194.	7.1	54
134	General Approach to Produce Nanostructured Binary Transition Metal Selenides as Highâ€Performance Sodium Ion Battery Anodes. Small, 2019, 15, e1901995.	5.2	52
135	Electrophoretic lithium iron phosphate/reduced graphene oxide composite for lithium ion battery cathode application. Journal of Power Sources, 2015, 284, 236-244.	4.0	51
136	Control over large-volume changes of lithium battery anodes via activeâ€“inactive metal alloy embedded in porous carbon. Nano Energy, 2015, 15, 755-765.	8.2	51
137	Halide Ion-Mediated Synthesis of L1₀-FePt Nanoparticles with Tunable Magnetic Properties. Nano Letters, 2018, 18, 7839-7844.	4.5	51
138	Micro/Nano Na₃V₂(PO₄)₃/N-Doped Carbon Composites with a Hierarchical Porous Structure for High-Rate Pouch-Type Sodium-Ion Full-Cell Performance. ACS Applied Materials & Interfaces, 2021, 13, 8445-8454.	4.0	51
139	Liquid-Phase Templateless Synthesis of Pt-on-Pd_{0.85}Bi_{0.15} Nanowires and PtPdBi Porous Nanoparticles with Superior Electrocatalytic Activity. Chemistry of Materials, 2013, 25, 457-465.	3.2	50
140	Spontaneous valley splitting and valley pseudospin field effect transistors of monolayer VAgP₂Se₆. Nanoscale, 2018, 10, 13986-13993.	2.8	50
141	Hollow manganese phosphate nanoparticles as smart multifunctional probes for cancer cell targeted magnetic resonance imaging and drug delivery. Nano Research, 2012, 5, 679-694.	5.8	49
142	Magnetic Nanostructures: Rational Design and Fabrication Strategies toward Diverse Applications. Chemical Reviews, 2022, 122, 5411-5475.	23.0	49
143	Controlled synthesis and multifunctional properties of FePt-Au heterostructures. Nano Research, 2011, 4, 836-848.	5.8	48
144	Ni-doped MnO2/CNT nanoarchitectures as a cathode material for ultra-long life magnesium/lithium hybrid ion batteries. Materials Today Energy, 2018, 10, 108-117.	2.5	48

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145	Developing Fe3O4 nanoparticles into an efficient multimodality imaging and therapeutic probe. Nanoscale, 2013, 5, 11954.	2.8	45
146	Ferromagnetic FePt Nanowires: Solvothermal Reduction Synthesis and Characterization. Small, 2006, 2, 235-238.	5.2	44
147	Synthesis and catalysis of oleic acid-coated Fe3O4 nanocrystals for direct coal liquefaction. Catalysis Communications, 2012, 26, 231-234.	1.6	44
148	Functional Magnetic Nanoparticles for Non-Viral Gene Delivery and MR Imaging. Pharmaceutical Research, 2014, 31, 1377-1389.	1.7	44
149	A review of nickel-rich layered oxide cathodes: synthetic strategies, structural characteristics, failure mechanism, improvement approaches and prospects. Applied Energy, 2022, 305, 117849.	5.1	44
150	Multifunctionality of Carbon-based Frameworks in Lithium Sulfur Batteries. Electrochemical Energy Reviews, 2018, 1, 403-432.	13.1	42
151	Thin-carbon-layer-enveloped cobaltâ€“iron oxide nanocages as a high-efficiency sulfur container for Liâ€“S batteries. Journal of Materials Chemistry A, 2020, 8, 20604-20611.	5.2	42
152	Turning on Zn 4s Electrons in a N₂â€Znâ€B₂ Configuration to Stimulate Remarkable ORR Performance. Angewandte Chemie, 2021, 133, 183-187.	1.6	42
153	Iron cobalt/polypyrrole nanoplates with tunable broadband electromagnetic wave absorption. RSC Advances, 2016, 6, 92152-92158.	1.7	41
154	Highly Reversible Liâ€“Se Batteries with Ultra-Lightweight N,S-Codoped Graphene Blocking Layer. Nano-Micro Letters, 2018, 10, 59.	14.4	41
155	Structure Engineering of 2D Materials toward Magnetism Modulation. Small Structures, 2021, 2, 2100077.	6.9	41
156	Synthesis of Iron-Carbide Nanoparticles: Identification of the Active Phase and Mechanism of Fe-Based Fischerâ€“Tropsch Synthesis. CCS Chemistry, 2021, 3, 2712-2724.	4.6	41
157	Pristine organo-imido polyoxometalates as an anode for lithium ion batteries. RSC Advances, 2014, 4, 7374.	1.7	40
158	Functional graphene-based magnetic nanocomposites as magnetic flocculant for efficient harvesting of oleaginous microalgae. Algal Research, 2016, 19, 86-95.	2.4	40
159	Towards 3-D Spherical Self-Assembly by Ternary Surfactant Combinations: The Case of Magnetite Nanoparticles. European Journal of Inorganic Chemistry, 2004, 2004, 1169-1173.	1.0	39
160	Unfolding the structural features of NASICON materials for sodiumâ€ion full cells. , 2022, 4, 776-819.		39
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