

Yanglong Hou

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299
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20,219
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80
h-index

135
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323
ext. papers

23,219
ext. citations

10.9
avg, IF

7.35
L-index

#	Paper	IF	Citations
299	Synthesis, functionalization, and biomedical applications of multifunctional magnetic nanoparticles. <i>Advanced Materials</i> , 2010 , 22, 2729-42	24	1129
298	Synthesis of phosphorus-doped graphene and its multifunctional applications for oxygen reduction reaction and lithium ion batteries. <i>Advanced Materials</i> , 2013 , 25, 4932-7	24	810
297	Magnetic core/shell Fe ₃ O ₄ /Au and Fe ₃ O ₄ /Au/Ag nanoparticles with tunable plasmonic properties. <i>Journal of the American Chemical Society</i> , 2007 , 129, 8698-9	16.4	776
296	Controlled PEGylation of Monodisperse Fe ₃ O ₄ Nanoparticles for Reduced Non-Specific Uptake by Macrophage Cells. <i>Advanced Materials</i> , 2007 , 19, 3163-3166	24	556
295	Oleylamine as Both Reducing Agent and Stabilizer in a Facile Synthesis of Magnetite Nanoparticles. <i>Chemistry of Materials</i> , 2009 , 21, 1778-1780	9.6	458
294	Fe ₅ C ₂ nanoparticles: a facile bromide-induced synthesis and as an active phase for Fischer-Tropsch synthesis. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15814-21	16.4	425
293	Synthesis of amino-functionalized graphene as metal-free catalyst and exploration of the roles of various nitrogen states in oxygen reduction reaction. <i>Nano Energy</i> , 2013 , 2, 88-97	17.1	377
292	Graphene-based nanocomposites for energy storage and conversion in lithium batteries, supercapacitors and fuel cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 15-32	13	375
291	Hybrid of Iron Nitride and Nitrogen-Doped Graphene Aerogel as Synergistic Catalyst for Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2014 , 24, 2930-2937	15.6	348
290	Nanostructured Anode Materials for Lithium Ion Batteries: Progress, Challenge and Perspective. <i>Advanced Energy Materials</i> , 2016 , 6, 1600374	21.8	294
289	Nickel sulfide/nitrogen-doped graphene composites: phase-controlled synthesis and high performance anode materials for lithium ion batteries. <i>Small</i> , 2013 , 9, 1321-8	11	276
288	A general strategy for synthesizing FePt nanowires and nanorods. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6333-5	16.4	272
287	Aqueous dispersions of TCNQ-anion-stabilized graphene sheets. <i>Chemical Communications</i> , 2008 , 6576-8;8		253
286	Fe ₃ O ₄ nanostructures: synthesis, growth mechanism, properties and applications. <i>Chemical Communications</i> , 2011 , 47, 5130-41	5.8	248
285	Controlled synthesis and chemical conversions of FeO nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6329-32	16.4	242
284	Liquid-phase exfoliation, functionalization and applications of graphene. <i>Nanoscale</i> , 2011 , 3, 2118-26	7.7	241
283	Microporous bamboo biochar for lithium-sulfur batteries. <i>Nano Research</i> , 2015 , 8, 129-139	10	238

282	Rational Design of Si/SiO ₂ @Hierarchical Porous Carbon Spheres as Efficient Polysulfide Reservoirs for High-Performance Li-S Battery. <i>Advanced Materials</i> , 2016 , 28, 3167-72	24	234
281	A porous nitrogen and phosphorous dual doped graphene blocking layer for high performance LiS batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16670-16678	13	219
280	Multifunctional Fe ₅ C ₂ nanoparticles: a targeted theranostic platform for magnetic resonance imaging and photoacoustic tomography-guided photothermal therapy. <i>Advanced Materials</i> , 2014 , 26, 4114-20	24	209
279	Graphene and its composites with nanoparticles for electrochemical energy applications. <i>Nano Today</i> , 2014 , 9, 668-683	17.9	204
278	Multifunctional Co ₃ S ₄ /graphene composites for lithium ion batteries and oxygen reduction reaction. <i>Chemistry - A European Journal</i> , 2013 , 19, 5183-90	4.8	204
277	Solvothermal-assisted exfoliation process to produce graphene with high yield and high quality. <i>Nano Research</i> , 2009 , 2, 706-712	10	198
276	High-yield preparation of uniform cobalt hydroxide and oxide nanoplatelets and their characterization. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19094-8	3.4	197
275	N-P-O co-doped high performance 3D graphene prepared through red phosphorous-assisted cutting-thin technique: A universal synthesis and multifunctional applications. <i>Nano Energy</i> , 2016 , 28, 346-355	17.1	181
274	Hybrid of Co(3)Sn(2)@Co nanoparticles and nitrogen-doped graphene as a lithium ion battery anode. <i>ACS Nano</i> , 2013 , 7, 10307-18	16.7	178
273	Solvothermal reduction synthesis and characterization of superparamagnetic magnetite nanoparticles. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1983		176
272	A Versatile Route toward the Electromagnetic Functionalization of Metal-Organic Framework-Derived Three-Dimensional Nanoporous Carbon Composites. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8965-8975	9.5	174
271	Magnetic Nanomaterials: Chemical Design, Synthesis, and Potential Applications. <i>Accounts of Chemical Research</i> , 2018 , 51, 404-413	24.3	172
270	Efficient and Lightweight Electromagnetic Wave Absorber Derived from Metal Organic Framework-Encapsulated Cobalt Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42102-42110	9.5	172
269	Iron phthalocyanine and nitrogen-doped graphene composite as a novel non-precious catalyst for the oxygen reduction reaction. <i>Nanoscale</i> , 2012 , 4, 7326-9	7.7	171
268	Linking Hydrophilic Macromolecules to Monodisperse Magnetite (Fe(3)O(4)) Nanoparticles via Trichloro-s-triazine. <i>Chemistry of Materials</i> , 2006 , 18, 5401-5403	9.6	171
267	N,B-codoped defect-rich graphitic carbon nanocages as high performance multifunctional electrocatalysts. <i>Nano Energy</i> , 2017 , 42, 334-340	17.1	170
266	Smart Hybridization of TiO ₂ Nanorods and Fe ₃ O ₄ Nanoparticles with Pristine Graphene Nanosheets: Hierarchically Nanoengineered Ternary Heterostructures for High-Rate Lithium Storage. <i>Advanced Functional Materials</i> , 2015 , 25, 3341-3350	15.6	164
265	Size-controlled synthesis of nickel nanoparticles. <i>Applied Surface Science</i> , 2005 , 241, 218-222	6.7	156

264	Monodisperse Au-FeC Janus Nanoparticles: An Attractive Multifunctional Material for Triple-Modal Imaging-Guided Tumor Photothermal Therapy. <i>ACS Nano</i> , 2017 , 11, 9239-9248	16.7	154
263	Monodisperse nickel nanoparticles prepared from a monosurfactant system and their magnetic properties. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1510		150
262	Integrated Design of MnO @Carbon Hollow Nanoboxes to Synergistically Encapsulate Polysulfides for Empowering Lithium Sulfur Batteries. <i>Small</i> , 2017 , 13, 1700087	11	148
261	Nanostructured cathode materials for lithium-sulfur batteries: progress, challenges and perspectives. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3014-3038	13	147
260	A Facile Synthesis of SmCo5 Magnets from Core/Shell Co/Sm2O3 Nanoparticles. <i>Advanced Materials</i> , 2007 , 19, 3349-3352	24	143
259	Hierarchically Porous Fe CoSe Binary-Metal Selenide for Extraordinary Rate Performance and Durable Anode of Sodium-Ion Batteries. <i>Advanced Materials</i> , 2018 , 30, e1802745	24	140
258	Octahedral Fe3O4 nanoparticles and their assembled structures. <i>Chemical Communications</i> , 2009 , 4378-808	90	133
257	Exchange-coupled nanocomposites: chemical synthesis, characterization and applications. <i>Chemical Society Reviews</i> , 2014 , 43, 8098-113	58.5	132
256	One-pot synthesis of Fe3O4 nanoprisms with controlled electrochemical properties. <i>Chemical Communications</i> , 2010 , 46, 3920-2	5.8	130
255	Electrode Nanostructures in Lithium-Based Batteries. <i>Advanced Science</i> , 2014 , 1, 1400012	13.6	123
254	3D Vertically Aligned and Interconnected Porous Carbon Nanosheets as Sulfur Immobilizers for High Performance Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502518	21.8	115
253	Self-Assembly of Co Nanoplatelets into Spheres: Synthesis and Characterization. <i>Chemistry of Materials</i> , 2005 , 17, 3994-3996	9.6	115
252	Multistimuli-Regulated Photochemothermal Cancer Therapy Remotely Controlled via Fe5C2 Nanoparticles. <i>ACS Nano</i> , 2016 , 10, 159-69	16.7	114
251	Heterostructures of 2D Molybdenum Dichalcogenide on 2D Nitrogen-Doped Carbon: Superior Potassium-Ion Storage and Insight into Potassium Storage Mechanism. <i>Advanced Materials</i> , 2020 , 32, e2000958	24	113
250	A conductive interwoven bamboo carbon fiber membrane for LiS batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9502-9509	13	111
249	Nanoscale Coordination Polymers for Synergistic NO and Chemodynamic Therapy of Liver Cancer. <i>Nano Letters</i> , 2019 , 19, 2731-2738	11.5	110
248	Cobalt selenide decorated carbon spheres for excellent cycling performance of sodium ion batteries. <i>Energy Storage Materials</i> , 2018 , 13, 19-28	19.4	110
247	A covalent heterostructure of monodisperse Ni2P immobilized on N, P-co-doped carbon nanosheets for high performance sodium/lithium storage. <i>Nano Energy</i> , 2018 , 48, 510-517	17.1	107

246	Three-dimensional nitrogen-doped graphene nanoribbons aerogel as a highly efficient catalyst for the oxygen reduction reaction. <i>Small</i> , 2015 , 11, 1423-9	11	105
245	Stimuli-responsive cancer therapy based on nanoparticles. <i>Chemical Communications</i> , 2014 , 50, 11614-30;8	105	105
244	Building nanocomposite magnets by coating a hard magnetic core with a soft magnetic shell. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2176-80	16.4	105
243	Removal of arsenate by cetyltrimethylammonium bromide modified magnetic nanoparticles. <i>Journal of Hazardous Materials</i> , 2012 , 227-228, 461-8	12.8	103
242	Near-infrared light and tumor microenvironment dual responsive size-switchable nanocapsules for multimodal tumor theranostics. <i>Nature Communications</i> , 2019 , 10, 4418	17.4	101
241	Revisiting the origin of cycling enhanced capacity of Fe ₃ O ₄ based nanostructured electrode for lithium ion batteries. <i>Nano Energy</i> , 2017 , 41, 426-433	17.1	100
240	Efficient bacterial capture with amino acid modified magnetic nanoparticles. <i>Water Research</i> , 2014 , 50, 124-34	12.5	100
239	Cobalt/polypyrrole nanocomposites with controllable electromagnetic properties. <i>Nanoscale</i> , 2015 , 7, 7189-96	7.7	99
238	Efficient Oxygen Reduction Catalysts of Porous Carbon Nanostructures Decorated with Transition Metal Species. <i>Advanced Energy Materials</i> , 2020 , 10, 1900375	21.8	97
237	Sulfur Hosts against the Shuttle Effect. <i>Small Methods</i> , 2018 , 2, 1700345	12.8	95
236	Molecular level distribution of black phosphorus quantum dots on nitrogen-doped graphene nanosheets for superior lithium storage. <i>Nano Energy</i> , 2016 , 30, 347-354	17.1	94
235	Magnetic iron oxide nanoparticles: Synthesis and surface coating techniques for biomedical applications. <i>Chinese Physics B</i> , 2014 , 23, 037503	1.2	93
234	Hollow iron oxide nanoparticles as multidrug resistant drug delivery and imaging vehicles. <i>Nano Research</i> , 2013 , 6, 1-9	10	93
233	Enhanced Polysulfide Regulation Porous Catalytic VO/VC Heterostructures Derived from Metal-Organic Frameworks toward High-Performance Li-S Batteries. <i>ACS Nano</i> , 2020 , 14, 8495-8507	16.7	91
232	Synthesis and electrocatalytic properties of PtBi nanoplatelets and PdBi nanowires. <i>Nanoscale</i> , 2014 , 6, 1049-55	7.7	91
231	SnO ₂ nanoparticles anchored on carbon foam as a freestanding anode for high performance potassium-ion batteries. <i>Energy and Environmental Science</i> , 2020 , 13, 571-578	35.4	90
230	Chlorine-doped carbonated cobalt hydroxide for supercapacitors with enormously high pseudocapacitive performance and energy density. <i>Nano Energy</i> , 2015 , 11, 267-276	17.1	89
229	Ultrathin MXene Nanosheets Decorated with TiO Quantum Dots as an Efficient Sulfur Host toward Fast and Stable Li-S Batteries. <i>Small</i> , 2018 , 14, e1802443	11	89

228	Bifunctional catalysts of Co ₃ O ₄ @GCN tubular nanostructured (TNS) hybrids for oxygen and hydrogen evolution reactions. <i>Nano Research</i> , 2015 , 8, 3725-3736	10	86
227	3D Porous Cu Current Collectors Derived by Hydrogen Bubble Dynamic Template for Enhanced Li Metal Anode Performance. <i>Advanced Functional Materials</i> , 2019 , 29, 1808468	15.6	85
226	Transition metal chalcogenide anodes for sodium storage. <i>Materials Today</i> , 2020 , 35, 131-167	21.8	85
225	Magnetic Reactive Oxygen Species Nanoreactor for Switchable Magnetic Resonance Imaging Guided Cancer Therapy Based on pH-Sensitive FeC@FeO Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 10002-10014	16.7	82
224	Facile self-assembly synthesis of titanate/Fe ₃ O ₄ nanocomposites for the efficient removal of Pb ²⁺ from aqueous systems. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 805-813	13	82
223	Single-crystalline Fe ₂ O ₃ nanostructures: controlled synthesis and high-index plane-enhanced photodegradation by visible light. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6888	13	82
222	Reversible Response of Luminescent Terbium(III)-Nanocellulose Hydrogels to Anions for Latent Fingerprint Detection and Encryption. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 6786-6790	16.4	81
221	Modulating the phases of iron carbide nanoparticles: from a perspective of interfering with the carbon penetration of Fe@FeO by selectively adsorbed halide ions. <i>Chemical Science</i> , 2017 , 8, 473-481	9.4	80
220	SmCo ₅ Fe nanocomposites synthesized from reductive annealing of oxide nanoparticles. <i>Applied Physics Letters</i> , 2007 , 91, 153117	3.4	80
219	Nitrogen-Doped Carbon Nanotube Aerogels for High-Performance ORR Catalysts. <i>Small</i> , 2015 , 11, 3903-3911	8	78
218	Multi-electron reaction materials for sodium-based batteries. <i>Materials Today</i> , 2018 , 21, 960-973	21.8	77
217	Tunable magnetic and microwave absorption properties of Sm _{1.5} Y _{0.5} Fe _{17-x} Si _x and their composites. <i>Acta Materialia</i> , 2018 , 145, 331-336	8.4	76
216	Magnetic nanoparticles grafted with amino-riched dendrimer as magnetic flocculant for efficient harvesting of oleaginous microalgae. <i>Chemical Engineering Journal</i> , 2016 , 297, 304-314	14.7	76
215	Manipulation of Edge-Site Fe _N 2 Moiety on Holey Fe, N Codoped Graphene to Promote the Cycle Stability and Rate Capacity of Li ₂ S Batteries. <i>Advanced Functional Materials</i> , 2019 , 29, 1807485	15.6	76
214	N-Doped Carbon Nanosheet Networks with Favorable Active Sites Triggered by Metal Nanoparticles as Bifunctional Oxygen Electrocatalysts. <i>ACS Energy Letters</i> , 2018 , 3, 2914-2920	20.1	76
213	Turning on Zn 4s Electrons in a N-Zn-B Configuration to Stimulate Remarkable ORR Performance. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 181-185	16.4	75
212	Preparation and Characterization of Monodisperse FePd Nanoparticles. <i>Chemistry of Materials</i> , 2004 , 16, 5149-5152	9.6	74
211	One Dimensional Graphitic Carbon Nitrides as Effective Metal-Free Oxygen Reduction Catalysts. <i>Scientific Reports</i> , 2015 , 5, 12389	4.9	70

210	Hydrothermal synthesis and crystal structure of a novel two-dimensional vanadium oxide complex with a 6,14-net sinusoidal ruffling anionic layer: [Ni(phen) ₂ V(4)O(11)] (phen = 1,10-phenanthroline). <i>Inorganic Chemistry</i> , 2002 , 41, 140-3	5.1	70
209	Lightweight and Flexible Cotton Aerogel Composites for Electromagnetic Absorption and Shielding Applications. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900796	6.4	70
208	Facile preparation of nitrogen-doped few-layer graphene via supercritical reaction. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2259-64	9.5	69
207	Polar and conductive iron carbide@N-doped porous carbon nanosheets as a sulfur host for high performance lithium sulfur batteries. <i>Chemical Engineering Journal</i> , 2019 , 358, 962-968	14.7	67
206	Enzyme-responsive multifunctional magnetic nanoparticles for tumor intracellular drug delivery and imaging. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 1381-9	4.5	66
205	In situ FeN@N-doped porous carbon hybrids as superior catalysts for oxygen reduction reaction. <i>Nanoscale</i> , 2017 , 9, 8102-8106	7.7	65
204	Inorganic nanocrystal self-assembly via the inclusion interaction of beta-cyclodextrins: toward 3D spherical magnetite. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4845-52	3.4	64
203	An electron deficiency strategy for enhancing hydrogen evolution on CoP nano-electrocatalysts. <i>Nano Energy</i> , 2018 , 50, 273-280	17.1	64
202	Itinerant ferromagnetic half metallic cobalt/iron couples: promising bifunctional electrocatalysts for ORR and OER. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 27175-27185	13	63
201	Controlled Synthesis and Chemical Conversions of FeO Nanoparticles. <i>Angewandte Chemie</i> , 2007 , 119, 6445-6448	3.6	62
200	Bactericidal mechanisms of Ag@TNBs under both dark and light conditions. <i>Water Research</i> , 2013 , 47, 1837-47	12.5	59
199	Controlled Growth and Thickness-Dependent Conduction-Type Transition of 2D Ferrimagnetic Cr S Semiconductors. <i>Advanced Materials</i> , 2020 , 32, e1905896	24	58
198	Transition Metal (Fe, Co and Ni) Carbide and Nitride Nanomaterials: Structure, Chemical Synthesis and Applications. <i>ChemNanoMat</i> , 2015 , 1, 376-398	3.5	57
197	Multifunctional Nitrogen-Doped Loofah Sponge Carbon Blocking Layer for High-Performance Rechargeable Lithium Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15991-6001	9.5	52
196	Single domain SmCo ₅ @Co exchange-coupled magnets prepared from core/shell Sm[Co(CN) ₆] ₂ ·4H ₂ O@GO particles: a novel chemical approach. <i>Scientific Reports</i> , 2013 , 3, 3542	4.9	52
195	Solvothermal reduction synthesis and magnetic properties of polymer protected iron and nickel nanocrystals. <i>Journal of Alloys and Compounds</i> , 2004 , 365, 112-116	5.7	52
194	Fabrication of hierarchical hollow Mn doped Ni(OH) ₂ nanostructures with enhanced catalytic activity towards electrochemical oxidation of methanol. <i>Nano Energy</i> , 2019 , 55, 37-41	17.1	52
193	Single-site pyrrolic-nitrogen-doped sp ² -hybridized carbon materials and their pseudocapacitance. <i>Nature Communications</i> , 2020 , 11, 3884	17.4	51

192	Visualization nanozyme based on tumor microenvironment "unlocking" for intensive combination therapy of breast cancer. <i>Science Advances</i> , 2020 , 6,	14.3	50
191	Inherent multifunctional inorganic nanomaterials for imaging-guided cancer therapy. <i>Nano Today</i> , 2019 , 26, 108-122	17.9	49
190	Construction of Synergistic Fe ₅ C ₂ /Co Heterostructured Nanoparticles as an Enhanced Low Temperature Fischer-Tropsch Synthesis Catalyst. <i>ACS Catalysis</i> , 2017 , 7, 5661-5667	13.1	49
189	Fe ₅ C ₂ nanoparticles with high MRI contrast enhancement for tumor imaging. <i>Small</i> , 2014 , 10, 1245-9	11	49
188	Ultrathin Fe ₂ O ₃ nanoflakes using smart chemical stripping for high performance lithium storage. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18737-18743	13	48
187	Controllable NdFeB/Fe nanocomposites: chemical synthesis and magnetic properties. <i>Nanoscale</i> , 2014 , 6, 10638-42	7.7	47
186	Electrophoretic lithium iron phosphate/reduced graphene oxide composite for lithium ion battery cathode application. <i>Journal of Power Sources</i> , 2015 , 284, 236-244	8.9	47
185	Control over large-volume changes of lithium battery anodes via active/inactive metal alloy embedded in porous carbon. <i>Nano Energy</i> , 2015 , 15, 755-765	17.1	46
184	Hollow manganese phosphate nanoparticles as smart multifunctional probes for cancer cell targeted magnetic resonance imaging and drug delivery. <i>Nano Research</i> , 2012 , 5, 679-694	10	46
183	Iron carbide nanoparticles: an innovative nanoplatform for biomedical applications. <i>Nanoscale Horizons</i> , 2017 , 2, 81-88	10.8	45
182	Liquid-Phase Templateless Synthesis of Pt-on-Pd _{0.85} Bi _{0.15} Nanowires and PtPdBi Porous Nanoparticles with Superior Electrocatalytic Activity. <i>Chemistry of Materials</i> , 2013 , 25, 457-465	9.6	45
181	Controlled synthesis and multifunctional properties of FePt-Au heterostructures. <i>Nano Research</i> , 2011 , 4, 836-848	10	44
180	Stable lithium metal anode enabled by lithium metal partial alloying. <i>Nano Energy</i> , 2019 , 65, 103989	17.1	43
179	Light-weight Gadolinium Hydroxide@polypyrrole Rare-Earth Nanocomposites with Tunable and Broadband Electromagnetic Wave Absorption. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12752-12760	19.5	42
178	Atomic-Scale Structure of Nanocrystals by High-Energy X-ray Diffraction and Atomic Pair Distribution Function Analysis: Study of Fe _x Pd _{100-x} (x= 0, 26, 28, 48) Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 714-720	3.8	42
177	Efficient polysulfides anchoring for Li-S batteries: Combined physical adsorption and chemical conversion in V ₂ O ₅ hollow spheres wrapped in nitrogen-doped graphene network. <i>Chemical Engineering Journal</i> , 2019 , 378, 122189	14.7	41
176	Rechargeable metal batteries based on selenium cathodes: progress, challenges and perspectives. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11566-11583	13	40
175	Developing Fe ₃ O ₄ nanoparticles into an efficient multimodality imaging and therapeutic probe. <i>Nanoscale</i> , 2013 , 5, 11954-63	7.7	40

174	Synthesis and catalysis of oleic acid-coated Fe ₃ O ₄ nanocrystals for direct coal liquefaction. <i>Catalysis Communications</i> , 2012 , 26, 231-234	3.2	38
173	Ferromagnetic FePt nanowires: solvothermal reduction synthesis and characterization. <i>Small</i> , 2006 , 2, 235-8	11	38
172	Functional magnetic nanoparticles for non-viral gene delivery and MR imaging. <i>Pharmaceutical Research</i> , 2014 , 31, 1377-89	4.5	37
171	A General Strategy for Synthesizing FePt Nanowires and Nanorods. <i>Angewandte Chemie</i> , 2007 , 119, 6449-6451	3.6451	37
170	Towards 3-D Spherical Self-Assembly by Ternary Surfactant Combinations: The Case of Magnetite Nanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2004 , 2004, 1169-1173	2.3	37
169	Pristine organo-imido polyoxometalates as an anode for lithium ion batteries. <i>RSC Advances</i> , 2014 , 4, 7374	3.7	36
168	Chemical Confinement and Utility of Lithium Polysulfides in Lithium Sulfur Batteries. <i>Small Methods</i> , 2020 , 4, 1900001	12.8	36
167	Noble metal-free catalysts for oxygen reduction reaction. <i>Science China Chemistry</i> , 2017 , 60, 1494-1507	7.9	35
166	Halide Ion-Mediated Synthesis of L1-FePt Nanoparticles with Tunable Magnetic Properties. <i>Nano Letters</i> , 2018 , 18, 7839-7844	11.5	34
165	Ni-doped MnO ₂ /CNT nanoarchitectures as a cathode material for ultra-long life magnesium/lithium hybrid ion batteries. <i>Materials Today Energy</i> , 2018 , 10, 108-117	7	34
164	Polyaspartic acid coated manganese oxide nanoparticles for efficient liver MRI. <i>Nanoscale</i> , 2011 , 3, 4943-4957	7.57	33
163	Rational design of MXene@TiO nanoarray enabling dual lithium polysulfide chemisorption towards high-performance lithium-sulfur batteries. <i>Nanoscale</i> , 2020 , 12, 16678-16684	7.7	33
162	SnS ₂ /Graphene Composites: Excellent Anode Materials for Lithium Ion Battery and Photolysis Catalysts. <i>Science of Advanced Materials</i> , 2013 , 5, 1667-1675	2.3	32
161	FeC nanoparticles: a reusable bactericidal material with photothermal effects under near-infrared irradiation. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3993-4000	7.3	31
160	Multifunctional metal rattle-type nanocarriers for MRI-guided photothermal cancer therapy. <i>Molecular Pharmaceutics</i> , 2014 , 11, 3386-94	5.6	31
159	Advance in the chemical synthesis and magnetic properties of nanostructured rare-earth-based permanent magnets. <i>Rare Metals</i> , 2013 , 32, 105-112	5.5	31
158	Iron cobalt/polypyrrole nanoplates with tunable broadband electromagnetic wave absorption. <i>RSC Advances</i> , 2016 , 6, 92152-92158	3.7	31
157	Controlled synthesis of FePt-Au hybrid nanoparticles triggered by reaction atmosphere and FePt seeds. <i>Nanoscale</i> , 2013 , 5, 9141-9	7.7	30

156	Magnetic nanoparticle-based cancer therapy. <i>Chinese Physics B</i> , 2013 , 22, 027506	1.2	30
155	LiFePO ₄ nanocrystals: liquid-phase reduction synthesis and their electrochemical performance. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3062-8	9.5	30
154	Functional MnO nanoclusters for efficient siRNA delivery. <i>Chemical Communications</i> , 2011 , 47, 12152-4	5.8	30
153	PbS Cubes with Pyramidal Pits: An Example of Etching Growth. <i>Crystal Growth and Design</i> , 2009 , 9, 3119-3123	3.3	30
152	General Approach to Produce Nanostructured Binary Transition Metal Selenides as High-Performance Sodium Ion Battery Anodes. <i>Small</i> , 2019 , 15, e1901995	11	29
151	Mesoporous N-doped graphene prepared by a soft-template method with high performance in Li-S batteries. <i>Nanoscale</i> , 2019 , 11, 7440-7446	7.7	29
150	Eliminating Dendrites and Side Reactions via a Multifunctional ZnSe Protective Layer toward Advanced Aqueous Zn Metal Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2100186	15.6	29
149	Functional graphene-based magnetic nanocomposites as magnetic flocculant for efficient harvesting of oleaginous microalgae. <i>Algal Research</i> , 2016 , 19, 86-95	5	29
148	Facile synthesis of anisotropic single crystalline Fe ₂ O ₃ nanoplates and their facet-dependent catalytic performance. <i>Inorganic Chemistry Frontiers</i> , 2015 , 2, 576-583	6.8	28
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