

# Guozhong Wang

## List of Publications by Citations

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183  
papers

7,259  
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48  
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192  
ext. papers

9,045  
ext. citations

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#	Paper	IF	Citations
183	Cobalt Covalent Doping in MoS to Induce Bifunctionality of Overall Water Splitting. <i>Advanced Materials</i> , <b>2018</b> , 30, e1801450	24	273
182	Co/Co <sub>9</sub> S <sub>8</sub> @S,N-doped porous graphene sheets derived from S, N dual organic ligands assembled Co-MOFs as superior electrocatalysts for full water splitting in alkaline media. <i>Nano Energy</i> , <b>2016</b> , 30, 93-102	17.1	216
181	3D graphene/EMnO <sub>2</sub> aerogels for highly efficient and reversible removal of heavy metal ions. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 1970-1979	13	211
180	Co/CoO nanoparticles immobilized on Co-N-doped carbon as trifunctional electrocatalysts for oxygen reduction, oxygen evolution and hydrogen evolution reactions. <i>Chemical Communications</i> , <b>2016</b> , 52, 5946-9	5.8	190
179	Mass production of micro/nanostructured porous ZnO plates and their strong structurally enhanced and selective adsorption performance for environmental remediation. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 8582		183
178	Potassium-Ion-Assisted Regeneration of Active Cyano Groups in Carbon Nitride Nanoribbons: Visible-Light-Driven Photocatalytic Nitrogen Reduction. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 16644-16650	16.4	180
177	Metal-organic framework derived nitrogen-doped porous carbon@graphene sandwich-like structured composites as bifunctional electrocatalysts for oxygen reduction and evolution reactions. <i>Carbon</i> , <b>2016</b> , 106, 74-83	10.4	164
176	The influence of biochar type on long-term stabilization for Cd and Cu in contaminated paddy soils. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 304, 40-8	12.8	150
175	Dramatically Enhanced Ambient Ammonia Electrosynthesis Performance by In-Operando Created Li <sup>+</sup> Interactions on MoS <sub>2</sub> Electrocatalyst. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803935	21.8	149
174	Bifunctional NH <sub>2</sub> -MIL-88(Fe) metal-organic framework nanooctahedra for highly sensitive detection and efficient removal of arsenate in aqueous media. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 23794-23804	13	148
173	Synthesis and optical properties of S-doped ZnO nanowires. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 4791-4793	3.4	141
172	Efficient Synthesis of Furfuryl Alcohol from H <sub>2</sub> -Hydrogenation/Transfer Hydrogenation of Furfural Using Sulfonate Group Modified Cu Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 2172-2180	8.3	136
171	Biomass-derived N-doped porous carbon as electrode materials for Zn-air battery powered capacitive deionization. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 1270-1280	14.7	134
170	One-step synthesis of cobalt-doped MoS nanosheets as bifunctional electrocatalysts for overall water splitting under both acidic and alkaline conditions. <i>Chemical Communications</i> , <b>2018</b> , 54, 3859-3862	5.8	130
169	Transforming chitosan into N-doped graphitic carbon electrocatalysts. <i>Chemical Communications</i> , <b>2015</b> , 51, 1334-7	5.8	105
168	Polyacrylonitrile/ferrous chloride composite porous nanofibers and their strong Cr-removal performance. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 991-997		98
167	Cu doping in CeO to form multiple oxygen vacancies for dramatically enhanced ambient N reduction performance. <i>Chemical Communications</i> , <b>2019</b> , 55, 2952-2955	5.8	96

166	Micro/nanostructured $\beta$ -Fe <sub>2</sub> O <sub>3</sub> spheres: synthesis, characterization, and structurally enhanced visible-light photocatalytic activity. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 9704		95
165	Ambient Electrosynthesis of Ammonia on a Biomass-Derived Nitrogen-Doped Porous Carbon Electrocatalyst: Contribution of Pyridinic Nitrogen. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 377-383	20.1	93
164	$\beta$ -FeOOH Nanorods/Carbon Foam-Based Hierarchically Porous Monolith for Highly Effective Arsenic Removal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 13480-13490	9.5	92
163	NiFe-Layered Double Hydroxide Nanosheet Arrays Supported on Carbon Cloth for Highly Sensitive Detection of Nitrite. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 6541-6551	9.5	92
162	One-pot synthesis of nanotube-based hierarchical copper silicate hollow spheres. <i>Chemical Communications</i> , <b>2008</b> , 6555-7	5.8	92
161	Synthesis and photoluminescence properties of ZnMnS nanobelts. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 2157-2159	2.159	91
160	Fe/Fe <sub>2</sub> O <sub>3</sub> nanoparticles anchored on Fe-N-doped carbon nanosheets as bifunctional oxygen electrocatalysts for rechargeable zinc-air batteries. <i>Nano Research</i> , <b>2016</b> , 9, 2123-2137	10	90
159	S,N-Containing Co-MOF derived Co <sub>9</sub> S <sub>8</sub> @S,N-doped carbon materials as efficient oxygen electrocatalysts and supercapacitor electrode materials. <i>Inorganic Chemistry Frontiers</i> , <b>2017</b> , 4, 491-498	6.8	86
158	Hierarchical iron containing $\beta$ -MnO <sub>2</sub> hollow microspheres: A facile one-step synthesis and effective removal of As(III) via oxidation and adsorption. <i>Chemical Engineering Journal</i> , <b>2016</b> , 301, 139-148	14.7	86
157	Enhanced Gas-Sensing Properties of the Hierarchical TiO <sub>2</sub> Hollow Microspheres with Exposed High-Energy {001} Crystal Facets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 24902-8	9.5	84
156	Nitrogen-Doped Carbon Nanotube Confined Co-N Sites for Selective Hydrogenation of Biomass-Derived Compounds. <i>Advanced Materials</i> , <b>2019</b> , 31, e1808341	24	83
155	Size Modulation of Zirconium-Based Metal Organic Frameworks for Highly Efficient Phosphate Remediation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 32151-32160	9.5	83
154	Shrimp-shell derived carbon nanodots as carbon and nitrogen sources to fabricate three-dimensional N-doped porous carbon electrocatalysts for the oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 4095-101	3.6	79
153	Hydrothermal synthesis and characterization of KNbO <sub>3</sub> nanorods. <i>CrystEngComm</i> , <b>2009</b> , 11, 1958	3.3	76
152	Electrocatalytically Active Fe-(O-C) Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 13423-13429	16.4	71
151	In situ growth of $\beta$ -Fe <sub>2</sub> O <sub>3</sub> nanorod arrays on 3D carbon foam as an efficient binder-free electrode for highly sensitive and specific determination of nitrite. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4726-4736	13	68
150	Modified natural diatomite and its enhanced immobilization of lead, copper and cadmium in simulated contaminated soils. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 289, 210-218	12.8	65
149	Highly Ordered Single Crystalline Nanowire Array Assembled Three-Dimensional Nb <sub>3</sub> O <sub>7</sub> (OH) and Nb <sub>2</sub> O <sub>5</sub> Superstructures for Energy Storage and Conversion Applications. <i>ACS Nano</i> , <b>2016</b> , 10, 507-14	16.7	65

- 148 Zn nanobelts: a new quasi one-dimensional metal nanostructure. *Chemical Communications*, **2001**, 2632-2633 65
- 147 Facile fabrication of composition-tunable Fe/Mg bimetal-organic frameworks for exceptional arsenate removal. *Chemical Engineering Journal*, **2019**, 357, 579-588 14.7 65
- 146 Simultaneously high-rate furfural hydrogenation and oxidation upgrading on nanostructured transition metal phosphides through electrocatalytic conversion at ambient conditions. *Applied Catalysis B: Environmental*, **2019**, 244, 899-908 21.8 62
- 145 Carbon-embedded Ni nanocatalysts derived from MOFs by a sacrificial template method for efficient hydrogenation of furfural to tetrahydrofurfuryl alcohol. *Dalton Transactions*, **2017**, 46, 6358-6365 4.3 61
- 144 Nitrogen-free commercial carbon cloth with rich defects for electrocatalytic ammonia synthesis under ambient conditions. *Chemical Communications*, **2018**, 54, 11188-11191 5.8 59
- 143 Highly selective liquid-phase hydrogenation of furfural over N-doped carbon supported metallic nickel catalyst under mild conditions. *Molecular Catalysis*, **2017**, 429, 51-59 3.3 57
- 142 Co<sub>9</sub>S<sub>8</sub>@N,P-doped porous carbon electrocatalyst using biomass-derived carbon nanodots as a precursor for overall water splitting in alkaline media. *RSC Advances*, **2017**, 7, 19181-19188 3.7 54
- 141 A fluorescent chitosan hydrogel detection platform for the sensitive and selective determination of trace mercury(II) in water. *Journal of Materials Chemistry A*, **2015**, 3, 19455-19460 13 53
- 140 High-Efficiency Co/CoS@S,N-Codoped Porous Carbon Electrocatalysts Fabricated from Controllably Grown Sulfur- and Nitrogen-Including Cobalt-Based MOFs for Rechargeable Zinc-Air Batteries. *ACS Applied Materials & Interfaces*, **2017**, 9, 34269-34278 9.5 53
- 139 Effects of surface ligands on the uptake and transport of gold nanoparticles in rice and tomato. *Journal of Hazardous Materials*, **2016**, 314, 188-196 12.8 53
- 138 Two-dimensional CoNi nanoparticles@S,N-doped carbon composites derived from S,N-containing Co/Ni MOFs for high performance supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 9873-9881 13 52
- 137 3D Fe<sub>3</sub>O<sub>4</sub>@Au@Ag nanoflowers assembled magnetoplasmonic chains for in situ SERS monitoring of plasmon-assisted catalytic reactions. *Journal of Materials Chemistry A*, **2016**, 4, 8866-8874 13 50
- 136 Spontaneous Redox Approach to the Self-Assembly Synthesis of Au/CeO Plasmonic Photocatalysts with Rich Oxygen Vacancies for Selective Photocatalytic Conversion of Alcohols. *ACS Applied Materials & Interfaces*, **2018**, 10, 31394-31403 9.5 48
- 135 Preparation and characterization of ordered semiconductor CdO nanowire arrays. *Journal of Materials Science Letters*, **2001**, 20, 1687-1689 47
- 134 Fabrication of hierarchical iron-containing MnO<sub>2</sub> hollow microspheres assembled by thickness-tunable nanosheets for efficient phosphate removal. *Journal of Materials Chemistry A*, **2016**, 4, 14814-14826 13 46
- 133 Three-dimensional honeycomb-like structured zero-valent iron/chitosan composite foams for effective removal of inorganic arsenic in water. *Journal of Colloid and Interface Science*, **2016**, 478, 421-9 9.3 46
- 132 Ambient Electrosynthesis of Ammonia on a Core-Shell-Structured Au@CeO Catalyst: Contribution of Oxygen Vacancies in CeO. *Chemistry - A European Journal*, **2019**, 25, 5904-5911 4.8 44
- 131 In situ self-assembly synthesis and photocatalytic performance of hierarchical Bi<sub>0.5</sub>Na<sub>0.5</sub>TiO<sub>3</sub> micro/nanostructures. *Journal of Materials Chemistry*, **2009**, 19, 2253 44

130	Formation of B?N?C Coordination to Stabilize the Exposed Active Nitrogen Atoms in g-C N for Dramatically Enhanced Photocatalytic Ammonia Synthesis Performance. <i>Small</i> , <b>2020</b> , 16, e1906880	11	43
129	Vapour-phase hydrothermal synthesis of Ni <sub>2</sub> P nanocrystallines on carbon fiber cloth for high-efficiency H <sub>2</sub> production and simultaneous urea decomposition. <i>Electrochimica Acta</i> , <b>2017</b> , 254, 44-49	6.7	43
128	Hierarchical Porous Carbon Materials Derived from Kelp for Superior Capacitive Applications. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 8735-8743	8.3	42
127	Liberating N-CNTs Confined Highly Dispersed Co?N Sites for Selective Hydrogenation of Quinolines. <i>Advanced Materials</i> , <b>2019</b> , 31, e1906051	24	40
126	Adsorption of Hg <sup>2+</sup> by thiol functionalized hollow mesoporous silica microspheres with magnetic cores. <i>RSC Advances</i> , <b>2015</b> , 5, 51446-51453	3.7	40
125	Micro/nanostructured porous Fe-Ni binary oxide and its enhanced arsenic adsorption performances. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 458, 94-102	9.3	39
124	A hierarchical hybrid monolith: MoS <sub>4</sub> 2?Intercalated NiFe layered double hydroxide nanosheet arrays assembled on carbon foam for highly efficient heavy metal removal. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 12869-12881	13	38
123	Vapor-phase hydrothermal transformation of a nanosheet array structure Ni(OH) <sub>2</sub> into ultrathin Ni <sub>3</sub> S <sub>2</sub> nanosheets on nickel foam for high-efficiency overall water splitting. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 19201-19209	13	38
122	Enhanced removal of trace Cr(VI) from neutral and alkaline aqueous solution by FeCo bimetallic nanoparticles. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 472, 8-15	9.3	37
121	Ultrafine nickel?cobalt alloy nanoparticles incorporated into three-dimensional porous graphitic carbon as an electrode material for supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 17080-17086	13	37
120	Vapor-phase hydrothermal growth of single crystalline NiS <sub>2</sub> nanostructure film on carbon fiber cloth for electrocatalytic oxidation of alcohols to ketones and simultaneous H <sub>2</sub> evolution. <i>Nano Research</i> , <b>2018</b> , 11, 1004-1017	10	37
119	Europium-based infinite coordination polymer nanospheres as an effective fluorescence probe for phosphate sensing. <i>RSC Advances</i> , <b>2017</b> , 7, 8661-8669	3.7	36
118	Selective Determination of Cr(VI) by Glutaraldehyde Cross-Linked Chitosan Polymer Fluorophores. <i>ACS Sensors</i> , <b>2018</b> , 3, 792-798	9.2	36
117	Pseudocapacitive deionization of uranium(VI) with WO <sub>3</sub> /C electrode. <i>Chemical Engineering Journal</i> , <b>2020</b> , 398, 125460	14.7	36
116	Fe-Co Alloyed Nanoparticles Catalyzing Efficient Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in Water. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 23521-23526	16.4	36
115	Enhanced photocatalytic activity of hierarchical structure TiO <sub>2</sub> hollow spheres with reactive (001) facets for the removal of toxic heavy metal Cr(VI). <i>RSC Advances</i> , <b>2014</b> , 4, 34577-34583	3.7	35
114	Theoretical study of single transition metal atom modified MoP as a nitrogen reduction electrocatalyst. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 5950-5955	3.6	35
113	One-step fabrication of high performance micro/nanostructured Fe <sub>3</sub> S <sub>4</sub> ? magnetic adsorbent with easy recovery and regeneration properties. <i>CrystEngComm</i> , <b>2013</b> , 15, 2956	3.3	34

112	Highly Dispersed Copper Nanoparticles Supported on Activated Carbon as an Efficient Catalyst for Selective Reduction of Vanillin. <i>Small</i> , <b>2018</b> , 14, e1801953	11	33
111	Three-dimensional hierarchically structured PAN@NiOOH fiber films based on a fiber templated hydrothermal route and their recyclable strong Cr(VI)-removal performance. <i>RSC Advances</i> , <b>2012</b> , 2, 17693-7	3.7	31
110	Organization of Mn3O4 nanoparticles into MnOOH nanowires via hydrothermal treatment of the colloids induced by laser ablation in water. <i>CrystEngComm</i> , <b>2011</b> , 13, 1063-1066	3.3	31
109	Enhanced fluoride removal by hierarchically porous carbon foam monolith with high loading of UiO-66. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 542, 269-280	9.3	29
108	Lignosulfonate functionalized g-C3N4/carbonized wood sponge for highly efficient heavy metal ion scavenging. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 12687-12698	13	29
107	Ethanol introduced synthesis of ultrastable 1T-MoS2 for removal of Cr(VI). <i>Journal of Hazardous Materials</i> , <b>2020</b> , 394, 122525	12.8	29
106	MoS2 Nanodots Anchored on Reduced Graphene Oxide for Efficient N2 Fixation to NH3. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 2320-2326	8.3	29
105	Ni/carbon aerogels derived from water induced self-assembly of Ni-MOF for adsorption and catalytic conversion of oily wastewater. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 126205	14.7	29
104	Experimental and theoretical understanding on electrochemical activation and inactivation processes of Nb3O7(OH) for ambient electrosynthesis of NH3. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 16969-16978	13	28
103	Orientable pore-size-distribution of ZnO nanostructures and their superior photocatalytic activity. <i>CrystEngComm</i> , <b>2010</b> , 12, 2821	3.3	28
102	Synthesis of KNbO3 nanorods by hydrothermal method. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 1465-9	1.3	28
101	In Situ Synthesis of Highly Dispersed CuNi Bimetallic Nanoparticles for Tandem Hydrogenation/Rearrangement of Bioderived Furfural in Aqueous-Phase. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 14919-14925	8.3	28
100	Self-assembled Pd/CeO2 catalysts by a facile redox approach for high-efficiency hydrogenation of levulinic acid into gamma-valerolactone. <i>Catalysis Communications</i> , <b>2017</b> , 93, 10-14	3.2	27
99	Ambient Electrosynthesis of Ammonia Using Core-Shell Structured Au@C Catalyst Fabricated by One-Step Laser Ablation Technique. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 44186-44195	9.5	27
98	Plasma-etching enhanced titanium oxynitride active phase with high oxygen content for ambient electrosynthesis of ammonia. <i>Electrochemistry Communications</i> , <b>2019</b> , 100, 90-95	5.1	26
97	Structure-enhanced removal of Cr(VI) in aqueous solutions using MoS2 ultrathin nanosheets. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 9006-9015	3.6	26
96	Highly dispersed Co and Ni nanoparticles encapsulated in N-doped carbon nanotubes as efficient catalysts for the reduction of unsaturated oxygen compounds in aqueous phase. <i>Catalysis Science and Technology</i> , <b>2018</b> , 8, 5506-5514	5.5	26
95	Fabrication of hierarchically porous NH2-MIL-53/wood-carbon hybrid membrane for highly effective and selective sequestration of Pb2+. <i>Chemical Engineering Journal</i> , <b>2020</b> , 387, 124141	14.7	25

94	An efficient and reusable bimetallic Ni <sub>3</sub> Fe NPs@C catalyst for selective hydrogenation of biomass-derived levulinic acid to Valerolactone. <i>Chinese Journal of Catalysis</i> , <b>2018</b> , 39, 1599-1607	11.3	25
93	A three-dimensional porous Co@C/carbon foam hybrid monolith for exceptional oil-water separation. <i>Nanoscale</i> , <b>2019</b> , 11, 12161-12168	7.7	23
92	Hollow mesoporous SiO <sub>2</sub> sphere nanoarchitectures with encapsulated silver nanoparticles for catalytic reduction of 4-nitrophenol. <i>Inorganic Chemistry Frontiers</i> , <b>2016</b> , 3, 663-670	6.8	23
91	A facile synthesis of single crystal TiO <sub>2</sub> nanorods with reactive {100} facets and their enhanced photocatalytic activity. <i>CrystEngComm</i> , <b>2014</b> , 16, 3091	3.3	23
90	Micro/nanostructured hydroxyapatite structurally enhances the immobilization for Cu and Cd in contaminated soil. <i>Journal of Soils and Sediments</i> , <b>2016</b> , 16, 2030-2040	3.4	23
89	A low-cost cementite (Fe <sub>3</sub> C) nanocrystal@N-doped graphitic carbon electrocatalyst for efficient oxygen reduction. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 27527-33	3.6	22
88	Efficient electrochemical N <sub>2</sub> fixation by doped-oxygen-induced phosphorus vacancy defects on copper phosphide nanosheets. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 5936-5942	13	22
87	Highly efficient electrocatalytic oxidation of urea on a Mn-incorporated Ni(OH) <sub>2</sub> /carbon fiber cloth for energy-saving rechargeable Zn-air batteries. <i>Chemical Communications</i> , <b>2017</b> , 53, 10711-10714	5.8	22
86	Highly efficient removal of hexavalent chromium in aqueous solutions via chemical reduction of plate-like micro/nanostructured zero valent iron. <i>RSC Advances</i> , <b>2017</b> , 7, 55905-55911	3.7	22
85	Protein assisted hydrothermal synthesis of ultrafine magnetite nanoparticle built-porous oriented fibers and their structurally enhanced adsorption to toxic chemicals in solution. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 11188		22
84	Shrimp-shell derived carbon nanodots as precursors to fabricate Fe,N-doped porous graphitic carbon electrocatalysts for efficient oxygen reduction in zinc-air batteries. <i>Inorganic Chemistry Frontiers</i> , <b>2016</b> , 3, 910-918	6.8	20
83	General in situ chemical etching synthesis of ZnO nanotips array. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 15311-14	19.4	19
82	Decomposition and Crystallization of a Sol-Gel-Derived PbTiO <sub>3</sub> Precursor. <i>Journal of the American Ceramic Society</i> , <b>2007</b> , 90, 2649-2652	3.8	19
81	Electrodeposition of hierarchically amorphous FeOOH nanosheets on carbonized bamboo as an efficient filter membrane for As(III) removal. <i>Chemical Engineering Journal</i> , <b>2020</b> , 392, 123773	14.7	18
80	Enhancement of the visible-light photocatalytic activity of CeO <sub>2</sub> by chemisorbed oxygen in the selective oxidation of benzyl alcohol. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 7355-7362	3.6	17
79	Electrocatalytic oxidation of benzyl alcohol for simultaneously promoting H <sub>2</sub> evolution by a Co <sub>0.83</sub> Ni <sub>0.17</sub> /activated carbon electrocatalyst. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 6381-6388	3.6	17
78	Selective Pseudocapacitive Deionization of Calcium Ions in Copper Hexacyanoferrate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41437-41445	9.5	17
77	Porous carbon nanosheets functionalized with Fe <sub>3</sub> O <sub>4</sub> nanoparticles for capacitive removal of heavy metal ions from water. <i>Environmental Science: Water Research and Technology</i> , <b>2020</b> , 6, 331-340	4.2	17

76	Potassium-Ion-Assisted Regeneration of Active Cyano Groups in Carbon Nitride Nanoribbons: Visible-Light-Driven Photocatalytic Nitrogen Reduction. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16797-16803	3.6	16
75	Magnetically recyclable catalytic activity of spiky magneto-plasmonic nanoparticles. <i>RSC Advances</i> , <b>2015</b> , 5, 56653-56657	3.7	16
74	Growth and in situ transformation of TiO <sub>2</sub> and HTiOF <sub>3</sub> crystals on chitosan-polyvinyl alcohol co-polymer substrates under vapor phase hydrothermal conditions. <i>Nano Research</i> , <b>2016</b> , 9, 745-754	10	16
73	Determination of mercury in aquatic systems by DGT device using thiol-modified carbon nanoparticle suspension as the liquid binding phase. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 10305-10311	3.6	16
72	A pyrolysis-phosphorization approach to fabricate carbon nanotubes with embedded CoP nanoparticles for ambient electrosynthesis of ammonia. <i>Chemical Communications</i> , <b>2019</b> , 55, 12376-12379	5.8	16
71	Zirconium metal organic frameworks-based DGT technique for in situ measurement of dissolved reactive phosphorus in waters. <i>Water Research</i> , <b>2018</b> , 147, 223-232	12.5	16
70	A nanoparticulate liquid binding phase based DGT device for aquatic arsenic measurement. <i>Talanta</i> , <b>2016</b> , 160, 225-232	6.2	15
69	Electrocatalytically Active Fe-(O-C <sub>2</sub> ) <sub>4</sub> Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 13525-13531	3.6	14
68	Hydroxyapatite nanoparticles in root cells: reducing the mobility and toxicity of Pb in rice. <i>Environmental Science: Nano</i> , <b>2018</b> , 5, 398-407	7.1	14
67	An adsorption-reduction synergistic effect of mesoporous Fe/SiO <sub>2</sub> @H <sub>2</sub> hollow spheres for the removal of Cr(VI) ions. <i>RSC Advances</i> , <b>2016</b> , 6, 27039-27046	3.7	14
66	Synthesis of Carbon Materials-TiO Hybrid Nanostructures and Their Visible-Light Photo-catalytic Activity. <i>ChemPlusChem</i> , <b>2014</b> , 79, 454-461	2.8	14
65	Photoelectrochemical manifestation of intrinsic photoelectron transport properties of vertically aligned {001} faceted single crystal TiO <sub>2</sub> nanosheet films. <i>RSC Advances</i> , <b>2015</b> , 5, 55438-55444	3.7	13
64	A sulfonate group functionalized active carbon-based Cu catalyst for electrochemical ammonia synthesis under ambient conditions. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 2832-2836	6.8	12
63	Highly sensitive detection of nitrite by using gold nanoparticle-decorated Fe <sub>2</sub> O <sub>3</sub> nanorod arrays as self-supporting photo-electrodes. <i>Inorganic Chemistry Frontiers</i> , <b>2019</b> , 6, 1432-1441	6.8	12
62	Efficient Synthesis of 2-Methylfuran from Bio-Derived Furfural over Supported Copper Catalyst: The Synergistic Effect of CuOx and Cu. <i>ChemistrySelect</i> , <b>2017</b> , 2, 9984-9991	1.8	11
61	Enhanced photocatalytic activity of a hollow TiO <sub>2</sub> @Au@TiO <sub>2</sub> sandwich structured nanocomposite. <i>RSC Advances</i> , <b>2016</b> , 6, 18958-18964	3.7	11
60	In Situ Growth of Ultrathin Ni(OH) Nanosheets as Catalyst for Electrocatalytic Oxidation Reactions. <i>ChemSusChem</i> , <b>2021</b> , 14, 2935-2942	8.3	11
59	One-pot redox synthesis of Pt/Fe <sub>3</sub> O <sub>4</sub> catalyst for efficiently chemoselective hydrogenation of cinnamaldehyde. <i>RSC Advances</i> , <b>2017</b> , 7, 21107-21113	3.7	10

58	Converting eggplant biomass into multifunctional porous carbon electrodes for self-powered capacitive deionization. <i>Environmental Science: Water Research and Technology</i> , <b>2019</b> , 5, 1054-1063	4.2	10
57	Direct Conversion of Biomass into Compact Air Electrode with Atomically Dispersed Oxygen and Nitrogen Coordinated Copper Species for Flexible Zinc-Air Batteries. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 8659-8666	6.1	10
56	Water bath synthesis and enhanced photocatalytic performances of urchin-like micro/nanostructured FeOOH. <i>Journal of Materials Research</i> , <b>2015</b> , 30, 1629-1638	2.5	10
55	Standing porous ZnO nanoplate-built hollow microspheres and kinetically controlled dissolution/crystal growth mechanism. <i>Journal of Materials Research</i> , <b>2012</b> , 27, 951-958	2.5	10
54	Hierarchical nanostructures of PbTiO <sub>3</sub> through mesocrystal formation. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 2538-41	1.3	10
53	Selective Growth of High-Density Anatase {101} Twin Boundaries on High-Energy {001} Facets. <i>Small Structures</i> , <b>2020</b> , 1, 2000025	8.7	10
52	Tunable synthesis of imines and secondary-amines from tandem hydrogenation-coupling of aromatic nitro and aldehyde over NiCo <sub>5</sub> bi-metallic catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 280, 119448	21.8	10
51	Laser Irradiation in Liquid to Release Cobalt Single-Atom Sites for Efficient Electrocatalytic N <sub>2</sub> Reduction. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 6079-6086	6.1	9
50	Efficiently electrocatalytic oxidation of benzyl alcohol for energy- saved zinc-air battery using a multifunctional nickel-cobalt alloy electrocatalyst. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 532, 37-46	9.3	9
49	Highly selective capacitive deionization of copper ions in FeS <sub>2</sub> @N, S co-doped carbon electrode from wastewater. <i>Separation and Purification Technology</i> , <b>2021</b> , 262, 118336	8.3	9
48	Efficient electrocatalytic nitrogen reduction to ammonia with aqueous silver nanodots. <i>Communications Chemistry</i> , <b>2021</b> , 4,	6.3	9
47	Three-Dimensional N-doped Porous Carbon Derived from Monosodium Glutamate for Capacitive Deionization and the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , <b>2018</b> , 5, 3873-3880	4.3	9
46	Electrochemical deposition of Pt on carbon fiber cloth utilizing Pt mesh counter electrode during hydrogen evolution reaction for electrocatalytic hydrogenation reduction of p-nitrophenol. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 7012-7019	3.6	8
45	The electrochemical corrosion of an air thermally-treated carbon fiber cloth electrocatalyst with outstanding oxygen evolution activity under alkaline conditions. <i>Chemical Communications</i> , <b>2019</b> , 55, 2344-2347	5.8	8
44	Hierarchically porous poly(amidoxime)/bacterial cellulose composite aerogel for highly efficient scavenging of heavy metals. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 600, 752-763	9.3	8
43	Selective electrocatalytic hydrogenation of nitrobenzene over copper-platinum alloying catalysts: Experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 298, 120545	21.8	8
42	Novel Fe <sub>3</sub> O <sub>4</sub> nanoparticles-based DGT device for dissolved reactive phosphate measurement. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 2874-2881	3.6	7
41	Improved Photocatalytic Performance of the Ultra-small Ag Nanocrystallite-Decorated TiO <sub>2</sub> Hollow Sphere Heterostructures. <i>ChemCatChem</i> , <b>2014</b> , 6, n/a-n/a	5.2	7

40	Integration of Fe <sub>2</sub> O <sub>3</sub> -based photoanode and atomically dispersed cobalt cathode for efficient photoelectrochemical NH <sub>3</sub> synthesis. <i>Chinese Chemical Letters</i> , <b>2021</b> , 32, 805-810	8.1	7
39	Encapsulated Ni-Co alloy nanoparticles as efficient catalyst for hydrodeoxygenation of biomass derivatives in water. <i>Chinese Journal of Catalysis</i> , <b>2021</b> , 42, 2027-2037	11.3	7
38	Cobalt single atom catalysts for the efficient electrosynthesis of hydrogen peroxide. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 2829-2834	6.8	7
37	Robust enhanced hydrogen production at acidic conditions over molybdenum oxides-stabilized ultrafine palladium electrocatalysts. <i>Nano Research</i> , <b>2021</b> , 14, 268-274	10	6
36	In situ transformation of Fe-doped Ni <sub>12</sub> P <sub>5</sub> into low-crystallized NiFe <sub>2</sub> O <sub>4</sub> with high-spin Fe <sup>4+</sup> for efficient electrocatalytic water oxidation. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 10289-10296	13	6
35	CoP Nanoparticles Wrapped in Amorphous Porous Carbon as an Efficient and Stable Catalyst for Water Oxidation. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 580	5	6
34	Highly dispersed nickel anchored on a N-doped carbon molecular sieve derived from metal-organic frameworks for efficient hydrodeoxygenation in the aqueous phase. <i>Chemical Communications</i> , <b>2020</b> , 56, 6696-6699	5.8	5
33	Fe/Fe <sub>3</sub> C@CNTs anchored on carbonized wood as both self-standing anode and cathode for synergistic electro-Fenton oxidation and sequestration of As(III). <i>Chemical Engineering Journal</i> , <b>2021</b> , 414, 128925	14.7	5
32	The catalytic behaviour in aqueous-phase hydrogenation over a renewable Ni catalyst derived from a perovskite-type oxide. <i>Dalton Transactions</i> , <b>2018</b> , 47, 17276-17284	4.3	5
31	One pot microwave-assisted synthesis of Ag decorated yolk@shell structured TiO <sub>2</sub> microspheres. <i>RSC Advances</i> , <b>2015</b> , 5, 11349-11357	3.7	4
30	Monodispersed Zerovalent Iron Nanoparticles Decorated Carbon Submicrospheres for Enhanced Removal of DDT from Aqueous Solutions. <i>ChemistrySelect</i> , <b>2019</b> , 4, 12134-12142	1.8	4
29	Sustainable 2,5-furandicarboxylic synthesis by a direct 5-hydroxymethylfurfural fuel cell based on a bifunctional PtNiS catalyst. <i>Chemical Communications</i> , <b>2020</b> , 56, 13611-13614	5.8	4
28	Rational Design of Cobalt-Platinum Alloy Decorated Cobalt Nanoparticles for One-Pot Synthesis of Imines from Nitroarenes and Aldehydes. <i>ChemCatChem</i> , <b>2020</b> , 12, 5948-5958	5.2	4
27	Oxoacetohydrazide-functionalized cellulose with enhanced adsorption performance. <i>Journal of Applied Polymer Science</i> , <b>2016</b> , 133, n/a-n/a	2.9	4
26	A universal route to fabricate bacterial cellulose-based composite membranes for simultaneous removal of multiple pollutants. <i>Chemical Communications</i> , <b>2021</b> , 57, 8592-8595	5.8	4
25	Converting Co <sup>2+</sup> -impregnated g-C <sub>3</sub> N <sub>4</sub> into N-doped CNTs-confined Co nanoparticles for efficient hydrogenation rearrangement reactions of furanic aldehydes. <i>Nano Research</i> , <b>2021</b> , 14, 2846-2852	10	4
24	Photocatalytic degradation of 2,4,4'-trichlorobiphenyl into long-chain alkanes using Ag nanoparticle decorated flower-like ZnO microspheres. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 7781-7785	3.6	3
23	Hierarchical Porous Iron Metal-Organic Gel/Bacterial Cellulose Aerogel: Ultrafast, Scalable, Room-Temperature Aqueous Synthesis, and Efficient Arsenate Removal. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 47684-47695	9.5	3

22	CoOx@Co Nanoparticle-based Catalyst for Efficient Selective Transfer Hydrogenation of $\beta$ -Unsaturated Aldehydes. <i>ChemCatChem</i> , <b>2020</b> , 12, 1019-1024	5.2	3
21	Improving the utilization rate of foliar nitrogen fertilizers by surface roughness engineering of silica spheres. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 3526-3535	7.1	3
20	Copper nanocrystals anchored on an O-rich carbonized corn gel for nitrogen electroreduction to ammonia. <i>Inorganic Chemistry Frontiers</i> , <b>2020</b> , 7, 3555-3560	6.8	3
19	Synergistic catalysis of cluster and atomic copper induced by copper-silica interface in transfer-hydrogenation. <i>Nano Research</i> , 1	10	3
18	Metal (Co/Mo)N bond anchor-doped N in porous carbon for electrochemical nitrogen reduction. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 1476-1481	6.8	3
17	Trimetallic Sulfide Hollow Superstructures with Engineered d-Band Center for Oxygen Reduction to Hydrogen Peroxide in Alkaline Solution.. <i>Advanced Science</i> , <b>2022</b> , e2104768	13.6	3
16	Pseudocapacitive desalination via valence engineering with spindle-like manganese oxide/carbon composites. <i>Nano Research</i> , <b>2021</b> , 14, 4878	10	2
15	Ball Milling-Induced Plate-like Sub-microstructured Iron for Enhancing Degradation of DDT in a Real Soil Environment. <i>ACS Omega</i> , <b>2018</b> , 3, 6955-6961	3.9	2
14	Intrinsic Pseudocapacitive Affinity in Manganese Spinel Ferrite Nanospheres for High-Performance Selective Capacitive Removal of Ca and Mg. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 38886-38895	9.5	2
13	Synchronous removal of tetracycline and water hardness ions by capacitive deionization. <i>Journal of Cleaner Production</i> , <b>2021</b> , 316, 128251	10.3	2
12	An oxygen-coordinated molybdenum single atom catalyst for efficient electrosynthesis of ammonia. <i>Chemical Communications</i> , <b>2021</b> , 57, 5410-5413	5.8	2
11	hcp-phased Ni nanoparticles with generic catalytic hydrogenation activities toward different functional groups. <i>Science China Materials</i> , <b>2022</b> , 65, 1252	7.1	1
10	Hollow carbon sphere encapsulated nickel nanoreactor for aqueous-phase hydrogenation-rearrangement tandem reaction with enhanced catalytic performance. <i>Applied Catalysis B: Environmental</i> , <b>2022</b> , 306, 121140	21.8	1
9	Fe-Co Alloyed Nanoparticles Catalyzing Efficient Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in Water. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 23727-23732	3.6	1
8	Carbothermal Methods: Highly Dispersed Copper Nanoparticles Supported on Activated Carbon as an Efficient Catalyst for Selective Reduction of Vanillin (Small 36/2018). <i>Small</i> , <b>2018</b> , 14, 1870164	11	1
7	Crystal plane effect of ceria on supported copper catalyst for liquid-phase hydrogenation of unsaturated aldehyde. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 596, 34-43	9.3	1
6	Metal-Organic Frameworks Derived Titanium Oxides via Soft Interface Adaptive Transformation. <i>Advanced Functional Materials</i> , 2107260	15.6	1
5	Bacterial cellulose hybrid membrane grafted with high ratio of adipic dihydrazide for highly efficient and selective recovery of gold from e-waste. <i>Separation and Purification Technology</i> , <b>2022</b> , 121021	8.3	1

4	A combustion method to synthesize nanoporous graphene.. <i>RSC Advances</i> , <b>2018</b> , 8, 9320-9326	3.7	o
3	growth of MOFs on Ni(OH) for efficient electrocatalytic oxidation of 5-hydroxymethylfurfural. <i>Chemical Communications</i> , <b>2021</b> , 57, 11358-11361	5.8	o
2	Facile synthesis of N, P co-doped carbon encapsulated Ni catalyst for green production of cyclopentanone from biomass derivative furfural. <i>Fuel</i> , <b>2022</b> , 319, 123815	7.1	o
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