

Shengbo Zhang

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176
papers

7,490
citations

51
h-index

80
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191
ext. papers

9,300
ext. citations

9.2
avg, IF

6.32
L-index

#	Paper	IF	Citations
176	Cobalt Covalent Doping in MoS to Induce Bifunctionality of Overall Water Splitting. <i>Advanced Materials</i> , 2018 , 30, e1801450	24	273
175	Enhanced visible-light-driven photocatalytic inactivation of Escherichia coli using g-C ₃ N ₄ /TiO ₂ hybrid photocatalyst synthesized using a hydrothermal-calcination approach. <i>Water Research</i> , 2015 , 86, 17-24	12.5	261
174	Co/Co ₉ S ₈ @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> , 2016 , 30, 93-102	17.1	216
173	3D graphene/EMnO ₂ aerogels for highly efficient and reversible removal of heavy metal ions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1970-1979	13	211
172	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> , 2016 , 52, 5946-9	5.8	190
171	Potassium-Ion-Assisted Regeneration of Active Cyano Groups in Carbon Nitride Nanoribbons: Visible-Light-Driven Photocatalytic Nitrogen Reduction. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16644-16650	16.4	180
170	A self-sponsored doping approach for controllable synthesis of S and N co-doped trimodal-porous structured graphitic carbon electrocatalysts. <i>Energy and Environmental Science</i> , 2014 , 7, 3720-3726	35.4	180
169	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> , 2016 , 106, 74-83	10.4	164
168	Dramatically Enhanced Ambient Ammonia Electrosynthesis Performance by In-Operando Created Li ⁺ Interactions on MoS ₂ Electrocatalyst. <i>Advanced Energy Materials</i> , 2019 , 9, 1803935	21.8	149
167	Bifunctional NH ₂ -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> , 2017 , 5, 23794-23804	13	148
166	Efficient Synthesis of Furfuryl Alcohol from H ₂ -Hydrogenation/Transfer Hydrogenation of Furfural Using Sulfonate Group Modified Cu Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2172-2180	8.3	136
165	Biomass-derived N-doped porous carbon as electrode materials for Zn-air battery powered capacitive deionization. <i>Chemical Engineering Journal</i> , 2018 , 334, 1270-1280	14.7	134
164	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> , 2018 , 54, 3859-3862	5.8	130
163	Hydrothermal transformation of dried grass into graphitic carbon-based high performance electrocatalyst for oxygen reduction reaction. <i>Small</i> , 2014 , 10, 3371-8	11	122
162	Cu doping in CeO to form multiple oxygen vacancies for dramatically enhanced ambient N reduction performance. <i>Chemical Communications</i> , 2019 , 55, 2952-2955	5.8	96
161	Anatase TiO ₂ crystal facet growth: mechanistic role of hydrofluoric acid and photoelectrocatalytic activity. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 2472-8	9.5	95
160	Ambient Electrosynthesis of Ammonia on a Biomass-Derived Nitrogen-Doped Porous Carbon Electrocatalyst: Contribution of Pyridinic Nitrogen. <i>ACS Energy Letters</i> , 2019 , 4, 377-383	20.1	93

159	FeOOH Nanorods/Carbon Foam-Based Hierarchically Porous Monolith for Highly Effective Arsenic Removal. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13480-13490	9.5	92
158	NiFe-Layered Double Hydroxide Nanosheet Arrays Supported on Carbon Cloth for Highly Sensitive Detection of Nitrite. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 6541-6551	9.5	92
157	A facile vapor-phase hydrothermal method for direct growth of titanate nanotubes on a titanium substrate via a distinctive nanosheet roll-up mechanism. <i>Journal of the American Chemical Society</i> , 2011 , 133, 19032-5	16.4	90
156	Fe/Fe ₂ O ₃ nanoparticles anchored on Fe-N-doped carbon nanosheets as bifunctional oxygen electrocatalysts for rechargeable zinc-air batteries. <i>Nano Research</i> , 2016 , 9, 2123-2137	10	90
155	Surface hydrogen bonding can enhance photocatalytic H ₂ evolution efficiency. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14089	13	89
154	S,N-Containing Co-MOF derived Co ₉ S ₈ @S,N-doped carbon materials as efficient oxygen electrocatalysts and supercapacitor electrode materials. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 491-498	6.8	86
153	Hierarchical iron containing MnO ₂ hollow microspheres: A facile one-step synthesis and effective removal of As(III) via oxidation and adsorption. <i>Chemical Engineering Journal</i> , 2016 , 301, 139-148	14.7	86
152	Nitrogen-Doped Carbon Nanotube Confined Co-N Sites for Selective Hydrogenation of Biomass-Derived Compounds. <i>Advanced Materials</i> , 2019 , 31, e1808341	24	83
151	Size Modulation of Zirconium-Based Metal Organic Frameworks for Highly Efficient Phosphate Remediation. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32151-32160	9.5	83
150	One-step solid phase synthesis of a highly efficient and robust cobalt pentlandite electrocatalyst for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18314-18321	13	80
149	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> , 2016 , 18, 4095-101	3.6	79
148	Vertically aligned nanorod-like rutile TiO ₂ single crystal nanowire bundles with superior electron transport and photoelectrocatalytic properties. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2465-2472		79
147	Strongly Coupled CoCr ₂ O ₄ /Carbon Nanosheets as High Performance Electrocatalysts for Oxygen Evolution Reaction. <i>Small</i> , 2016 , 12, 2866-71	11	76
146	Macroscale cobalt-MOFs derived metallic Co nanoparticles embedded in N-doped porous carbon layers as efficient oxygen electrocatalysts. <i>Applied Surface Science</i> , 2017 , 392, 402-409	6.7	75
145	Directly hydrothermal growth of single crystal Nb ₃ O ₇ (OH) nanorod film for high performance dye-sensitized solar cells. <i>Advanced Materials</i> , 2012 , 24, 1598-603	24	74
144	Electrocatalytically Active Fe-(O-C) Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13423-13429	16.4	71
143	Directly hydrothermal growth of ultrathin MoS ₂ nanostructured films as high performance counter electrodes for dye-sensitized solar cells. <i>RSC Advances</i> , 2014 , 4, 21277	3.7	70
142	One-step synthesis of nitrogen-doped microporous carbon materials as metal-free electrocatalysts for oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11666-11671	13	70

- 141 Single crystal β -Fe₂O₃ with exposed {104} facets for high performance gas sensor applications. *RSC Advances*, **2012**, 2, 6178 3.7 70
- 140 In situ growth of β -Fe₂O₃ nanorod arrays on 3D carbon foam as an efficient binder-free electrode for highly sensitive and specific determination of nitrite. *Journal of Materials Chemistry A*, **2017**, 5, 4726-4736 13.36 68
- 139 Facile fabrication of anatase TiO₂ microspheres on solid substrates and surface crystal facet transformation from {001} to {101}. *Chemistry - A European Journal*, **2011**, 17, 5949-57 4.8 67
- 138 Highly Ordered Single Crystalline Nanowire Array Assembled Three-Dimensional Nb₃O₇(OH) and Nb₂O₅ Superstructures for Energy Storage and Conversion Applications. *ACS Nano*, **2016**, 10, 507-14 16.7 65
- 137 Determination of Iodide via Direct Fluorescence Quenching at Nitrogen-Doped Carbon Quantum Dot Fluorophores. *Environmental Science and Technology Letters*, **2014**, 1, 87-91 11 65
- 136 Facile fabrication of composition-tunable Fe/Mg bimetal-organic frameworks for exceptional arsenate removal. *Chemical Engineering Journal*, **2019**, 357, 579-588 14.7 65
- 135 Density Functional Studies of Stoichiometric Surfaces of Orthorhombic Hybrid Perovskite CH₃NH₃PbI₃. *Journal of Physical Chemistry C*, **2015**, 119, 1136-1145 3.8 64
- 134 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
- 133 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 14.5 61
- 132 Nitrogen-free commercial carbon cloth with rich defects for electrocatalytic ammonia synthesis under ambient conditions. *Chemical Communications*, **2018**, 54, 11188-11191 5.8 59
- 131 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
- 130 Hierarchical MgFe-layered double hydroxide microsphere/graphene composite for simultaneous electrochemical determination of trace Pb(II) and Cd(II). *Chemical Engineering Journal*, **2018**, 347, 953-962 14.7 56
- 129 Co₉S₈@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
- 128 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
- 127 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
- 126 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
- 125 Vapor-phase hydrothermal transformation of HTiOF₃ intermediates into {001} faceted anatase single-crystalline nanosheets. *Small*, **2012**, 8, 3664-73 11 51
- 124 3D Fe₃O₄@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

123	Manipulating solar absorption and electron transport properties of rutile TiO ₂ photocatalysts via highly n-type F-doping. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3513	13	49
122	Spontaneous Redox Approach to the Self-Assembly Synthesis of Au/CeO Plasmonic Photocatalysts with Rich Oxygen Vacancies for Selective Photocatalytic Conversion of Alcohols. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31394-31403	9.5	48
121	Fabrication of hierarchical iron-containing MnO ₂ hollow microspheres assembled by thickness-tunable nanosheets for efficient phosphate removal. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14814-14826	13	46
120	Visible light active pure rutile TiO ₂ photoanodes with 100% exposed pyramid-shaped (111) surfaces. <i>Nano Research</i> , 2012 , 5, 762-769	10	46
119	Rutile TiO ₂ microspheres with exposed nano-acicular single crystals for dye-sensitized solar cells. <i>Nano Research</i> , 2011 , 4, 938-947	10	45
118	Ambient Electrosynthesis of Ammonia on a Core-Shell-Structured Au@CeO Catalyst: Contribution of Oxygen Vacancies in CeO. <i>Chemistry - A European Journal</i> , 2019 , 25, 5904-5911	4.8	44
117	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> , 2020 , 16, e1906880	11	43
116	Vapour-phase hydrothermal synthesis of Ni ₂ P nanocrystallines on carbon fiber cloth for high-efficiency H ₂ production and simultaneous urea decomposition. <i>Electrochimica Acta</i> , 2017 , 254, 44-49	6.7	43
115	Hierarchical Porous Carbon Materials Derived from Kelp for Superior Capacitive Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8735-8743	8.3	42
114	An in situ vapour phase hydrothermal surface doping approach for fabrication of high performance Co ₃ O ₄ electrocatalysts with an exceptionally high S-doped active surface. <i>Chemical Communications</i> , 2015 , 51, 5695-7	5.8	41
113	Liberating N-CNTs Confined Highly Dispersed Co?N Sites for Selective Hydrogenation of Quinolines. <i>Advanced Materials</i> , 2019 , 31, e1906051	24	40
112	A hierarchical hybrid monolith: MoS 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> , 2019 , 7, 12869-12881	13	38
111	Vapor-phase hydrothermal transformation of a nanosheet array structure Ni(OH) ₂ into ultrathin Ni ₃ S ₂ nanosheets on nickel foam for high-efficiency overall water splitting. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19201-19209	13	38
110	Anatase TiO ₂ mesocrystals with exposed (001) surface for enhanced photocatalytic decomposition capability toward gaseous styrene. <i>Catalysis Today</i> , 2014 , 224, 216-224	5.3	37
109	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> , 2016 , 4, 17080-17086	13	37
108	Vapor-phase hydrothermal growth of single crystalline NiS ₂ nanostructure film on carbon fiber cloth for electrocatalytic oxidation of alcohols to ketones and simultaneous H ₂ evolution. <i>Nano Research</i> , 2018 , 11, 1004-1017	10	37
107	Europium-based infinite coordination polymer nanospheres as an effective fluorescence probe for phosphate sensing. <i>RSC Advances</i> , 2017 , 7, 8661-8669	3.7	36
106	Selective Determination of Cr(VI) by Glutaraldehyde Cross-Linked Chitosan Polymer Fluorophores. <i>ACS Sensors</i> , 2018 , 3, 792-798	9.2	36

105	Fe-Co Alloyed Nanoparticles Catalyzing Efficient Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in Water. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 23521-23526	16.4	36
104	Rutile TiO ₂ films with 100% exposed pyramid-shaped (111) surface: photoelectron transport properties under UV and visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2646	13	35
103	Theoretical study of single transition metal atom modified MoP as a nitrogen reduction electrocatalyst. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5950-5955	3.6	35
102	The surface sulfur doping induced enhanced performance of cobalt catalysts in oxygen evolution reactions. <i>Chemical Communications</i> , 2016 , 52, 9450-3	5.8	34
101	Highly Dispersed Copper Nanoparticles Supported on Activated Carbon as an Efficient Catalyst for Selective Reduction of Vanillin. <i>Small</i> , 2018 , 14, e1801953	11	33
100	Enhanced fluoride removal by hierarchically porous carbon foam monolith with high loading of UiO-66. <i>Journal of Colloid and Interface Science</i> , 2019 , 542, 269-280	9.3	29
99	Lignosulfonate functionalized g-C ₃ N ₄ /carbonized wood sponge for highly efficient heavy metal ion scavenging. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 12687-12698	13	29
98	Ethanol introduced synthesis of ultrastable 1T-MoS ₂ for removal of Cr(VI). <i>Journal of Hazardous Materials</i> , 2020 , 394, 122525	12.8	29
97	MoS ₂ Nanodots Anchored on Reduced Graphene Oxide for Efficient N ₂ Fixation to NH ₃ . <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2320-2326	8.3	29
96	Improved UV resistance in wood through the hydrothermal growth of highly ordered ZnO nanorod arrays. <i>Journal of Materials Science</i> , 2012 , 47, 4457-4462	4.3	29
95	Engineering the band gap of bare titanium dioxide materials for visible-light activity: a theoretical prediction. <i>RSC Advances</i> , 2013 , 3, 8777	3.7	29
94	Experimental and theoretical understanding on electrochemical activation and inactivation processes of Nb ₃ O ₇ (OH) for ambient electrosynthesis of NH ₃ . <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16969-16978	13	28
93	A highly crystalline Nb ₃ O ₇ F nanostructured photoelectrode: fabrication and photosensitisation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6563	13	28
92	In Situ Synthesis of Highly Dispersed Cu ₂ O Bimetallic Nanoparticles for Tandem Hydrogenation/Rearrangement of Bioderived Furfural in Aqueous-Phase. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 14919-14925	8.3	28
91	Self-assembled Pd/CeO ₂ catalysts by a facile redox approach for high-efficiency hydrogenation of levulinic acid into gamma-valerolactone. <i>Catalysis Communications</i> , 2017 , 93, 10-14	3.2	27
90	Ambient Electrosynthesis of Ammonia Using Core-Shell Structured Au@C Catalyst Fabricated by One-Step Laser Ablation Technique. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 44186-44195	9.5	27
89	Plasma-etching enhanced titanium oxynitride active phase with high oxygen content for ambient electrosynthesis of ammonia. <i>Electrochemistry Communications</i> , 2019 , 100, 90-95	5.1	26
88	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> , 2018 , 8, 5506-5514	5.5	26

87	Fabrication of hierarchically porous NH ₂ -MIL-53/wood-carbon hybrid membrane for highly effective and selective sequestration of Pb ²⁺ . <i>Chemical Engineering Journal</i> , 2020 , 387, 124141	14.7	25
86	An efficient and reusable bimetallic Ni ₃ Fe NPs@C catalyst for selective hydrogenation of biomass-derived levulinic acid to Valerolactone. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1599-1607	11.3	25
85	Nature of visible-light responsive fluorinated titanium dioxides. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 12948	13	24
84	Carbon-encapsulated heazlewoodite nanoparticles as highly efficient and durable electrocatalysts for oxygen evolution reactions. <i>Nano Research</i> , 2017 , 10, 3522-3533	10	23
83	A three-dimensional porous Co@C/carbon foam hybrid monolith for exceptional oil-water separation. <i>Nanoscale</i> , 2019 , 11, 12161-12168	7.7	23
82	Hollow mesoporous SiO ₂ sphere nanoarchitectures with encapsulated silver nanoparticles for catalytic reduction of 4-nitrophenol. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 663-670	6.8	23
81	Efficient electrochemical N ₂ fixation by doped-oxygen-induced phosphorus vacancy defects on copper phosphide nanosheets. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 5936-5942	13	22
80	Highly efficient electrocatalytic oxidation of urea on a Mn-incorporated Ni(OH) ₂ /carbon fiber cloth for energy-saving rechargeable Zn-air batteries. <i>Chemical Communications</i> , 2017 , 53, 10711-10714	5.8	22
79	Vapor-phase hydrothermal synthesis of rutile TiO ₂ nanostructured film with exposed pyramid-shaped (111) surface and superiorly photoelectrocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2014 , 429, 53-61	9.3	21
78	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> , 2016 , 3, 910-918	6.8	20
77	Transformation of carbon-encapsulated metallic Co into ultrafine Co/CoO nanoparticles exposed on N-doped graphitic carbon for high-performance rechargeable zinc-air battery. <i>Applied Surface Science</i> , 2018 , 448, 369-379	6.7	19
76	{001} facets dominated anatase TiO ₂ : Morphology, formation/etching mechanisms and performance. <i>Science China Chemistry</i> , 2013 , 56, 402-417	7.9	18
75	Switching the photocatalytic activity of g-C ₃ N ₄ by homogenous surface chemical modification with nitrogen residues and vacancies. <i>RSC Advances</i> , 2015 , 5, 21430-21433	3.7	18
74	Electrodeposition of hierarchically amorphous FeOOH nanosheets on carbonized bamboo as an efficient filter membrane for As(III) removal. <i>Chemical Engineering Journal</i> , 2020 , 392, 123773	14.7	18
73	Enhancement of the visible-light photocatalytic activity of CeO ₂ by chemisorbed oxygen in the selective oxidation of benzyl alcohol. <i>New Journal of Chemistry</i> , 2019 , 43, 7355-7362	3.6	17
72	Electrocatalytic oxidation of benzyl alcohol for simultaneously promoting H ₂ evolution by a Co _{0.83} Ni _{0.17} /activated carbon electrocatalyst. <i>New Journal of Chemistry</i> , 2018 , 42, 6381-6388	3.6	17
71	Geometric structure of rutile titanium dioxide (111) surfaces. <i>Physical Review B</i> , 2014 , 90,	3.3	17
70	Adenovirus inactivation by in situ photocatalytically and photoelectrocatalytically generated halogen viricides. <i>Chemical Engineering Journal</i> , 2014 , 253, 538-543	14.7	17

69	A new vapor-phase hydrothermal method to concurrently grow ZnO nanotube and nanorod array films on different sides of a zinc foil substrate. <i>Chemistry - A European Journal</i> , 2012 , 18, 5165-9	4.8	17
68	Selective Pseudocapacitive Deionization of Calcium Ions in Copper Hexacyanoferrate. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 41437-41445	9.5	17
67	Porous carbon nanosheets functionalized with Fe ₃ O ₄ nanoparticles for capacitive removal of heavy metal ions from water. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 331-340	4.2	17
66	Potassium-Ion-Assisted Regeneration of Active Cyano Groups in Carbon Nitride Nanoribbons: Visible-Light-Driven Photocatalytic Nitrogen Reduction. <i>Angewandte Chemie</i> , 2019 , 131, 16797-16803	3.6	16
65	Growth and in situ transformation of TiO ₂ and HTiOF ₃ crystals on chitosan-polyvinyl alcohol co-polymer substrates under vapor phase hydrothermal conditions. <i>Nano Research</i> , 2016 , 9, 745-754	10	16
64	Photoelectrochemical determination of intrinsic kinetics of photoelectrocatalysis processes at {001} faceted anatase TiO ₂ photoanodes. <i>RSC Advances</i> , 2015 , 5, 12860-12865	3.7	16
63	A pyrolysis-phosphorization approach to fabricate carbon nanotubes with embedded CoP nanoparticles for ambient electrosynthesis of ammonia. <i>Chemical Communications</i> , 2019 , 55, 12376-12379	5.8	16
62	Zirconium metal organic frameworks-based DGT technique for in situ measurement of dissolved reactive phosphorus in waters. <i>Water Research</i> , 2018 , 147, 223-232	12.5	16
61	Adsorption and oxidation of oxalic acid on anatase TiO ₂ (001) surface: A density functional theory study. <i>Journal of Colloid and Interface Science</i> , 2015 , 454, 180-6	9.3	15
60	A nanoparticulate liquid binding phase based DGT device for aquatic arsenic measurement. <i>Talanta</i> , 2016 , 160, 225-232	6.2	15
59	Electrocatalytically Active Fe-(O-C ₂) ₄ Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia. <i>Angewandte Chemie</i> , 2020 , 132, 13525-13531	3.6	14
58	Photoelectrochemical manifestation of intrinsic photoelectron transport properties of vertically aligned {001} faceted single crystal TiO ₂ nanosheet films. <i>RSC Advances</i> , 2015 , 5, 55438-55444	3.7	13
57	A sulfonate group functionalized active carbon-based Cu catalyst for electrochemical ammonia synthesis under ambient conditions. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2832-2836	6.8	12
56	Highly sensitive detection of nitrite by using gold nanoparticle-decorated Fe ₂ O ₃ nanorod arrays as self-supporting photo-electrodes. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 1432-1441	6.8	12
55	Efficient Synthesis of 2-Methylfuran from Bio-Derived Furfural over Supported Copper Catalyst: The Synergistic Effect of CuO _x and Cu. <i>ChemistrySelect</i> , 2017 , 2, 9984-9991	1.8	11
54	Sulfonate group modified Ni catalyst for highly efficient liquid-phase selective hydrogenation of bio-derived furfural. <i>Chinese Chemical Letters</i> , 2018 , 29, 1617-1620	8.1	11
53	Enhanced photocatalytic activity of a hollow TiO ₂ @Au/TiO ₂ sandwich structured nanocomposite. <i>RSC Advances</i> , 2016 , 6, 18958-18964	3.7	11
52	In Situ Growth of Ultrathin Ni(OH) ₂ Nanosheets as Catalyst for Electrocatalytic Oxidation Reactions. <i>ChemSusChem</i> , 2021 , 14, 2935-2942	8.3	11

51	One-pot redox synthesis of Pt/Fe ₃ O ₄ catalyst for efficiently chemoselective hydrogenation of cinnamaldehyde. <i>RSC Advances</i> , 2017 , 7, 21107-21113	3.7	10
50	Converting eggplant biomass into multifunctional porous carbon electrodes for self-powered capacitive deionization. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 1054-1063	4.2	10
49	Atomic Tuning of Single-Atom Fe-N-C Catalysts with Phosphorus for Robust Electrochemical CO Reduction.. <i>Nano Letters</i> , 2022 ,	11.5	10
48	Selective Growth of High-Density Anatase {101} Twin Boundaries on High-Energy {001} Facets. <i>Small Structures</i> , 2020 , 1, 2000025	8.7	10
47	Tunable synthesis of imines and secondary-amines from tandem hydrogenation-coupling of aromatic nitro and aldehyde over NiCo ₅ bi-metallic catalyst. <i>Applied Catalysis B: Environmental</i> , 2021 , 280, 119448	21.8	10
46	Laser Irradiation in Liquid to Release Cobalt Single-Atom Sites for Efficient Electrocatalytic N ₂ Reduction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6079-6086	6.1	9
45	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> , 2018 , 532, 37-46	9.3	9
44	Instant inactivation and rapid decomposition of Escherichia coli using a high efficiency TiO ₂ nanotube array photoelectrode. <i>RSC Advances</i> , 2013 , 3, 20824	3.7	9
43	Highly selective capacitive deionization of copper ions in FeS ₂ @N, S co-doped carbon electrode from wastewater. <i>Separation and Purification Technology</i> , 2021 , 262, 118336	8.3	9
42	Efficient electrocatalytic nitrogen reduction to ammonia with aqueous silver nanodots. <i>Communications Chemistry</i> , 2021 , 4,	6.3	9
41	Three-Dimensional N-doped Porous Carbon Derived from Monosodium Glutamate for Capacitive Deionization and the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2018 , 5, 3873-3880	4.3	9
40	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> , 2017 , 41, 7012-7019	3.6	8
39	The electrochemical corrosion of an air thermally-treated carbon fiber cloth electrocatalyst with outstanding oxygen evolution activity under alkaline conditions. <i>Chemical Communications</i> , 2019 , 55, 2344-2347	5.8	8
38	Precisely controlled heterogeneous nucleation sites for TiO ₂ crystal growth. <i>CrystEngComm</i> , 2014 , 16, 7502	3.3	8
37	Electrochemical reduction of nitrate to ammonia in a fluidized electrocatalysis system with oxygen vacancy-rich CuOx nanoparticles. <i>Inorganic Chemistry Frontiers</i> ,	6.8	8
36	Hierarchically porous poly(amidoxime)/bacterial cellulose composite aerogel for highly efficient scavenging of heavy metals. <i>Journal of Colloid and Interface Science</i> , 2021 , 600, 752-763	9.3	8
35	Selective electrocatalytic hydrogenation of nitrobenzene over copper-platinum alloying catalysts: Experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120545	21.8	8
34	Integration of Fe ₂ O ₃ -based photoanode and atomically dispersed cobalt cathode for efficient photoelectrochemical NH ₃ synthesis. <i>Chinese Chemical Letters</i> , 2021 , 32, 805-810	8.1	7

33	Encapsulated Ni-Co alloy nanoparticles as efficient catalyst for hydrodeoxygenation of biomass derivatives in water. <i>Chinese Journal of Catalysis</i> , 2021 , 42, 2027-2037	11.3	7
32	Cobalt single atom catalysts for the efficient electrosynthesis of hydrogen peroxide. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 2829-2834	6.8	7
31	Robust enhanced hydrogen production at acidic conditions over molybdenum oxides-stabilized ultrafine palladium electrocatalysts. <i>Nano Research</i> , 2021 , 14, 268-274	10	6
30	In situ transformation of Fe-doped Ni ₁₂ P ₅ into low-crystallized NiFe ₂ O ₄ with high-spin Fe ⁴⁺ for efficient electrocatalytic water oxidation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10289-10296	13	6
29	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> , 2020 , 56, 6696-6699	5.8	5
28	The catalytic behaviour in aqueous-phase hydrogenation over a renewable Ni catalyst derived from a perovskite-type oxide. <i>Dalton Transactions</i> , 2018 , 47, 17276-17284	4.3	5
27	Sustainable 2,5-furandicarboxylic synthesis by a direct 5-hydroxymethylfurfural fuel cell based on a bifunctional PtNiS catalyst. <i>Chemical Communications</i> , 2020 , 56, 13611-13614	5.8	4
26	Rational Design of Cobalt-Platinum Alloy Decorated Cobalt Nanoparticles for One-Pot Synthesis of Imines from Nitroarenes and Aldehydes. <i>ChemCatChem</i> , 2020 , 12, 5948-5958	5.2	4
25	Oxoacetohydrazide-functionalized cellulose with enhanced adsorption performance. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	4
24	A universal route to fabricate bacterial cellulose-based composite membranes for simultaneous removal of multiple pollutants. <i>Chemical Communications</i> , 2021 , 57, 8592-8595	5.8	4
23	Converting Co ²⁺ -impregnated g-C ₃ N ₄ into N-doped CNTs-confined Co nanoparticles for efficient hydrogenation rearrangement reactions of furanic aldehydes. <i>Nano Research</i> , 2021 , 14, 2846-2852	10	4
22	Construction of Pd/BiOCl Catalyst for Highly-selective Synthesis of Benzoin Ethyl Ether by Chlorine Promoted Coupling Reaction. <i>ChemCatChem</i> , 2019 , 11, 2676-2682	5.2	3
21	Hierarchical Porous Iron Metal-Organic Gel/Bacterial Cellulose Aerogel: Ultrafast, Scalable, Room-Temperature Aqueous Synthesis, and Efficient Arsenate Removal. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47684-47695	9.5	3
20	CoOx@Co Nanoparticle-based Catalyst for Efficient Selective Transfer Hydrogenation of α -Unsaturated Aldehydes. <i>ChemCatChem</i> , 2020 , 12, 1019-1024	5.2	3
19	Copper nanocrystals anchored on an O-rich carbonized corn gel for nitrogen electroreduction to ammonia. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 3555-3560	6.8	3
18	Synergistic catalysis of cluster and atomic copper induced by copper-silica interface in transfer-hydrogenation. <i>Nano Research</i> , 2021 , 14, 1476-1481	10	3
17	Metal (Co/Mo) bond anchor-doped N in porous carbon for electrochemical nitrogen reduction. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 1476-1481	6.8	3
16	The morphology and optical properties of ZnO crystals fabricated by hydrothermal method under pulsed magnetic field. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013 , 10, 1276-1279		2

15	Pseudocapacitive desalination via valence engineering with spindle-like manganese oxide/carbon composites. <i>Nano Research</i> , 2021 , 14, 4878	10	2
14	Intrinsic Pseudocapacitive Affinity in Manganese Spinel Ferrite Nanospheres for High-Performance Selective Capacitive Removal of Ca and Mg. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38886-38895	9.5	2
13	Synchronous removal of tetracycline and water hardness ions by capacitive deionization. <i>Journal of Cleaner Production</i> , 2021 , 316, 128251	10.3	2
12	An oxygen-coordinated molybdenum single atom catalyst for efficient electrosynthesis of ammonia. <i>Chemical Communications</i> , 2021 , 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> , 2022 , 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> , 2022 , 306, 121140	21.8	1
9	Bacterial cellulose-regulated synthesis of metallic Ni catalysts for high-efficiency electrosynthesis of hydrogen peroxide. <i>Science China Materials</i> , 1	7.1	1
8	Fe-Co Alloyed Nanoparticles Catalyzing Efficient Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in Water. <i>Angewandte Chemie</i> , 2020 , 132, 23727-23732	3.6	1
7	A fluidized electrocatalysis approach for ammonia synthesis using oxygen vacancy-rich Co ₃ O ₄ nanoparticles. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 4026-4034	6.8	1
6	Copper-assisted growth of high-purity carbon nanofiber networks with controllably tunable wettabilities. <i>Journal of Materials Chemistry A</i> ,	13	1
5	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> , 2018 , 14, 1870164	11	1
4	Crystal plane effect of ceria on supported copper catalyst for liquid-phase hydrogenation of unsaturated aldehyde. <i>Journal of Colloid and Interface Science</i> , 2021 , 596, 34-43	9.3	1
3	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> , 2022 , 121021	8.3	1
2	growth of MOFs on Ni(OH) for efficient electrocatalytic oxidation of 5-hydroxymethylfurfural. <i>Chemical Communications</i> , 2021 , 57, 11358-11361	5.8	0
1	Facile synthesis of N, P co-doped carbon encapsulated Ni catalyst for green production of cyclopentanone from biomass derivative furfural. <i>Fuel</i> , 2022 , 319, 123815	7.1	0