

Shengbo Zhang

List of Publications by Year in descending order

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186
papers

10,957
citations

20759

60
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38300

95
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191
all docs

191
docs citations

191
times ranked

13195
citing authors

#	ARTICLE	IF	CITATIONS
1	Cobalt Covalent Doping in MoS ₂ to Induce Bifunctionality of Overall Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1801450.	11.1	402
2	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.	7.2	356
3	Enhanced visible-light-driven photocatalytic inactivation of <i>Escherichia coli</i> using g-C ₃ N ₄ /TiO ₂ hybrid photocatalyst synthesized using a hydrothermal-calcination approach. <i>Water Research</i> , 2015, 86, 17-24.	5.3	323
4	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.	8.2	260
5	3D graphene/MnO ₂ aerogels for highly efficient and reversible removal of heavy metal ions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 1970-1979.	5.2	257
6	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.	5.2	230
7	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, 5946-5949.	2.2	221
8	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.	5.4	206
9	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.	15.6	198
10	One-step synthesis of cobalt-doped MoS ₂ nanosheets as bifunctional electrocatalysts for overall water splitting under both acidic and alkaline conditions. <i>Chemical Communications</i> , 2018, 54, 3859-3862.	2.2	196
11	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.	6.6	182
12	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.	3.2	177
13	Dramatically Enhanced Ambient Ammonia Electrosynthesis Performance by In-Operando Created Li-S Interactions on MoS ₂ Electrocatalyst. <i>Advanced Energy Materials</i> , 2019, 9, 1803935.	10.2	176
14	Electrocatalytically Active Fe ₄ (O) ₄ Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 13423-13429.	7.2	161
15	Size Modulation of Zirconium-Based Metal Organic Frameworks for Highly Efficient Phosphate Remediation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32151-32160.	4.0	146
16	Fe ²⁺ -FeOOH Nanorods/Carbon Foam-Based Hierarchically Porous Monolith for Highly Effective Arsenic Removal. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 13480-13490.	4.0	143
17	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.	8.8	142
18	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.	4.0	140

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19	Nitrogen-Doped Carbon Nanotube Confined Co-N Sites for Selective Hydrogenation of Biomass-Derived Compounds. <i>Advanced Materials</i> , 2019, 31, e1808341.	11.1	138
20	Cu doping in CeO ₂ to form multiple oxygen vacancies for dramatically enhanced ambient N ₂ reduction performance. <i>Chemical Communications</i> , 2019, 55, 2952-2955.	2.2	138
21	Hydrothermal Transformation of Dried Grass into Graphitic Carbon-Based High Performance Electrocatalyst for Oxygen Reduction Reaction. <i>Small</i> , 2014, 10, 3371-3378.	5.2	135
22	Facile fabrication of composition-tunable Fe/Mg bimetal-organic frameworks for exceptional arsenate removal. <i>Chemical Engineering Journal</i> , 2019, 357, 579-588.	6.6	124
23	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.	5.8	116
24	Simultaneously high-rate furfural hydrogenation and oxidation upgrading on nanostructured transition metal phosphides through electrocatalytic conversion at ambient conditions. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 899-908.	10.8	115
25	Surface hydrogen bonding can enhance photocatalytic H ₂ evolution efficiency. <i>Journal of Materials Chemistry A</i> , 2013, 1, 14089.	5.2	113
26	Atomic Tuning of Single-Atom Fe-N-C Catalysts with Phosphorus for Robust Electrochemical CO ₂ Reduction. <i>Nano Letters</i> , 2022, 22, 1557-1565.	4.5	111
27	Anatase TiO ₂ Crystal Facet Growth: Mechanistic Role of Hydrofluoric Acid and Photoelectrocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 2472-2478.	4.0	108
28	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.	3.0	108
29	Hierarchical iron containing Fe ³⁺ -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.	6.6	106
30	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, 19032-19035.	6.6	99
31	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.	5.2	97
32	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, 4095-4101.	1.3	97
33	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.	3.1	92
34	Fe-Co Alloyed Nanoparticles Catalyzing Efficient Hydrogenation of Cinnamaldehyde to Cinnamyl Alcohol in Water. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23521-23526.	7.2	91
35	Strongly Coupled CoCr ₂ O ₄ /Carbon Nanosheets as High Performance Electrocatalysts for Oxygen Evolution Reaction. <i>Small</i> , 2016, 12, 2866-2871.	5.2	90
36	Carbon-embedded Ni nanocatalysts derived from MOFs by a sacrificial template method for efficient hydrogenation of furfural to tetrahydrofurfuryl alcohol. <i>Dalton Transactions</i> , 2017, 46, 6358-6365.	1.6	88

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37	Formation of Bi ₂ Ni ₂ C Coordination to Stabilize the Exposed Active Nitrogen Atoms in gâ€C₃N₄ for Dramatically Enhanced Photocatalytic Ammonia Synthesis Performance. <i>Small</i> , 2020, 16, e1906880.	5.2	88
38	Directly Hydrothermal Growth of Single Crystal Nb₃O₇(OH) Nanorod Film for High Performance Dyeâ€Sensitized Solar Cells. <i>Advanced Materials</i> , 2012, 24, 1598-1603.	11.1	86
39	In situ growth of Î±-Fe₂O₃ 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> , 2017, 5, 4726-4736.	5.2	86
40	Hierarchical MgFe-layered double hydroxide microsphere/graphene composite for simultaneous electrochemical determination of trace Pb(II) and Cd(II). <i>Chemical Engineering Journal</i> , 2018, 347, 953-962.	6.6	86
41	Vertically aligned nanorod-like rutileTiO2 single crystal nanowire bundles with superior electron transport and photoelectrocatalytic properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 2465-2472.	6.7	84
42	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.	5.2	84
43	Single crystal Î±-Fe2O3 with exposed {104} facets for high performance gas sensor applications. <i>RSC Advances</i> , 2012, 2, 6178.	1.7	82
44	Directly hydrothermal growth of ultrathin MoS2 nanostructured films as high performance counter electrodes for dye-sensitised solar cells. <i>RSC Advances</i> , 2014, 4, 21277.	1.7	82
45	Highly Ordered Single Crystalline Nanowire Array Assembled Three-Dimensional Nb₃O₇(OH) and Nb₂O₅ Superstructures for Energy Storage and Conversion Applications. <i>ACS Nano</i> , 2016, 10, 507-514.	7.3	81
46	Highly selective liquid-phase hydrogenation of furfural over N-doped carbon supported metallic nickel catalyst under mild conditions. <i>Molecular Catalysis</i> , 2017, 429, 51-59.	1.0	81
47	Nitrogen-free commercial carbon cloth with rich defects for electrocatalytic ammonia synthesis under ambient conditions. <i>Chemical Communications</i> , 2018, 54, 11188-11191.	2.2	79
48	Ethanol introduced synthesis of ultrastable 1T-MoS2 for removal of Cr(VI). <i>Journal of Hazardous Materials</i> , 2020, 394, 122525.	6.5	79
49	Two-dimensional CoNi nanoparticles@S,N-doped carbon composites derived from S,N-containing Co/Ni MOFs for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9873-9881.	5.2	75
50	Determination of Iodide via Direct Fluorescence Quenching at Nitrogen-Doped Carbon Quantum Dot Fluorophores. <i>Environmental Science and Technology Letters</i> , 2014, 1, 87-91.	3.9	74
51	Density Functional Studies of Stoichiometric Surfaces of Orthorhombic Hybrid Perovskite CH₃NH₃PbI₃. <i>Journal of Physical Chemistry C</i> , 2015, 119, 1136-1145.	1.5	73
52	High-Efficiency Co/Co_xS_y@S,N-Codoped Porous Carbon Electrocatalysts Fabricated from Controllably Grown Sulfur- and Nitrogen-Including Cobalt-Based MOFs for Rechargeable Zincâ€Air Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 34269-34278.	4.0	71
53	Hierarchical Porous Carbon Materials Derived from Kelp for Superior Capacitive Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8735-8743.	3.2	71
54	Facile Fabrication of Anatase TiO₂ Microspheres on Solid Substrates and Surface Crystal Facet Transformation from {001} to {101}. <i>Chemistry - A European Journal</i> , 2011, 17, 5949-5957.	1.7	70

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55	Co ₉ S ₈ @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.	1.7	69
56	Ambient Electrosynthesis of Ammonia on a Core-Shell Structured Au@CeO ₂ Catalyst: Contribution of Oxygen Vacancies in CeO ₂ . Chemistry - A European Journal, 2019, 25, 5904-5911.	1.7	69
57	Spontaneous Redox Approach to the Self-Assembly Synthesis of Au/CeO ₂ Plasmonic Photocatalysts with Rich Oxygen Vacancies for Selective Photocatalytic Conversion of Alcohols. ACS Applied Materials & Interfaces, 2018, 10, 31394-31403.	4.0	67
58	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.	5.2	66
59	3D Fe ₃ O ₄ @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.	5.2	63
60	Europium-based infinite coordination polymer nanospheres as an effective fluorescence probe for phosphate sensing. RSC Advances, 2017, 7, 8661-8669.	1.7	62
61	Vapour-phase hydrothermal synthesis of Ni ₂ P nanocrystallines on carbon fiber cloth for high-efficiency H ₂ production and simultaneous urea decomposition. Electrochimica Acta, 2017, 254, 44-49.	2.6	62
62	Highly Dispersed Copper Nanoparticles Supported on Activated Carbon as an Efficient Catalyst for Selective Reduction of Vanillin. Small, 2018, 14, e1801953.	5.2	62
63	Fabrication of hierarchical iron-containing MnO ₂ hollow microspheres assembled by thickness-tunable nanosheets for efficient phosphate removal. Journal of Materials Chemistry A, 2016, 4, 14814-14826.	5.2	60
64	Selective Determination of Cr(VI) by Glutaraldehyde Cross-Linked Chitosan Polymer Fluorophores. ACS Sensors, 2018, 3, 792-798.	4.0	60
65	A hierarchical hybrid monolith: MoS ₄ ²⁻ -intercalated NiFe layered double hydroxide nanosheet arrays assembled on carbon foam for highly efficient heavy metal removal. Journal of Materials Chemistry A, 2019, 7, 12869-12881.	5.2	58
66	Visible light active pure rutile TiO ₂ photoanodes with 100% exposed pyramid-shaped (111) surfaces. Nano Research, 2012, 5, 762-769.	5.8	57
67	Vapor-Phase Hydrothermal Transformation of HTiOF ₃ Intermediates into {001} Faceted Anatase Single-Crystalline Nanosheets. Small, 2012, 8, 3664-3673.	5.2	56
68	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. Nano Research, 2018, 11, 1004-1017.	5.8	56
69	Liberating N-CNTs Confined Highly Dispersed Co _x N _x Sites for Selective Hydrogenation of Quinolines. Advanced Materials, 2019, 31, e1906051.	11.1	56
70	Ultrafine nickel-cobalt alloy nanoparticles incorporated into three-dimensional porous graphitic carbon as an electrode material for supercapacitors. Journal of Materials Chemistry A, 2016, 4, 17080-17086.	5.2	53
71	Manipulating solar absorption and electron transport properties of rutile TiO ₂ photocatalysts via highly n-type F-doping. Journal of Materials Chemistry A, 2014, 2, 3513.	5.2	52
72	Rutile TiO ₂ microspheres with exposed nano-acicular single crystals for dye-sensitized solar cells. Nano Research, 2011, 4, 938-947.	5.8	50

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73	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.	5.0	50
74	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.	5.2	48
75	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, 5695-5697.	2.2	47
76	The surface sulfur doping induced enhanced performance of cobalt catalysts in oxygen evolution reactions. <i>Chemical Communications</i> , 2016, 52, 9450-9453.	2.2	47
77	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.	2.1	47
78	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.	5.2	47
79	In Situ Synthesis of Highly Dispersed Cu-Co Bimetallic Nanoparticles for Tandem Hydrogenation/Rearrangement of Bioderived Furfural in Aqueous-Phase. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14919-14925.	3.2	46
80	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.	6.6	44
81	Selective electrocatalytic hydrogenation of nitrobenzene over copper-platinum alloying catalysts: Experimental and theoretical studies. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120545.	10.8	44
82	An efficient and reusable bimetallic Ni ₃ Fe NPs@C catalyst for selective hydrogenation of biomass-derived levulinic acid to Î³-valerolactone. <i>Chinese Journal of Catalysis</i> , 2018, 39, 1599-1607.	6.9	43
83	Theoretical study of single transition metal atom modified MoP as a nitrogen reduction electrocatalyst. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 5950-5955.	1.3	43
84	Selective Pseudocapacitive Deionization of Calcium Ions in Copper Hexacyanoferrate. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 41437-41445.	4.0	43
85	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.	6.9	43
86	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.	3.2	42
87	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.	5.2	40
88	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.	5.2	39
89	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.	5.2	39
90	Anatase TiO ₂ mesocrystals with exposed (001) surface for enhanced photocatalytic decomposition capability toward gaseous styrene. <i>Catalysis Today</i> , 2014, 224, 216-224.	2.2	38

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91	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.	4.0	38
92	Plasma-etching enhanced titanium oxynitride active phase with high oxygen content for ambient electrosynthesis of ammonia. <i>Electrochemistry Communications</i> , 2019, 100, 90-95.	2.3	38
93	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.	5.0	38
94	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.	1.6	37
95	Efficient electrocatalytic nitrogen reduction to ammonia with aqueous silver nanodots. <i>Communications Chemistry</i> , 2021, 4, .	2.0	36
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.	1.7	35
97	In Situ Growth of Ultrathin Ni(OH) ₂ Nanosheets as Catalyst for Electrocatalytic Oxidation Reactions. <i>ChemSusChem</i> , 2021, 14, 2935-2942.	3.6	35
98	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.	6.6	34
99	A three-dimensional porous Co@C/carbon foam hybrid monolith for exceptional oil-water separation. <i>Nanoscale</i> , 2019, 11, 12161-12168.	2.8	33
100	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.	3.9	33
101	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.	2.2	32
102	Engineering the band gap of bare titanium dioxide materials for visible-light activity: a theoretical prediction. <i>RSC Advances</i> , 2013, 3, 8777.	1.7	31
103	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.	3.1	31
104	Electrochemical reduction of nitrate to ammonia in a fluidized electrocatalysis system with oxygen vacancy-rich CuO nanoparticles. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 5209-5213.	3.0	31
105	A highly crystalline Nb ₃ O ₇ F nanostructured photoelectrode: fabrication and photosensitisation. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6563.	5.2	29
106	Cobalt single atom catalysts for the efficient electrosynthesis of hydrogen peroxide. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 2829-2834.	3.0	29
107	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.	3.0	27
108	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.	3.0	27

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109	Carbon-encapsulated heazlewoodite nanoparticles as highly efficient and durable electrocatalysts for oxygen evolution reactions. <i>Nano Research</i> , 2017, 10, 3522-3533.	5.8	27
110	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.	1.4	27
111	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.	1.2	27
112	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.	4.0	27
113	Nature of visible-light responsive fluorinated titanium dioxides. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12948.	5.2	26
114	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.	1.6	26
115	{001} facets dominated anatase TiO ₂ : Morphology, formation/etching mechanisms and performance. <i>Science China Chemistry</i> , 2013, 56, 402-417.	4.2	24
116	Vapor-phase hydrothermal synthesis of rutile TiO ₂ nanostructured film with exposed pyramid-shaped (1 1 1) surface and superiorly photoelectrocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2014, 429, 53-61.	5.0	24
117	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.	5.3	24
118	An oxygen-coordinated molybdenum single atom catalyst for efficient electrosynthesis of ammonia. <i>Chemical Communications</i> , 2021, 57, 5410-5413.	2.2	24
119	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.	2.2	23
120	Electrocatalytically Active Fe ₂ O ₄ Single-Atom Sites for Efficient Reduction of Nitrogen to Ammonia. <i>Angewandte Chemie</i> , 2020, 132, 13525-13531.	1.6	23
121	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, 180-186.	5.0	22
122	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.	4.8	22
123	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.	10.8	22
124	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.	1.7	21
125	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.	1.2	21
126	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.	1.4	21

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127	Pseudocapacitive desalination via valence engineering with spindle-like manganese oxide/carbon composites. <i>Nano Research</i> , 2021, 14, 4878-4884.	5.8	21
128	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, 5165-5169.	1.7	20
129	Adenovirus inactivation by in situ photocatalytically and photoelectrocatalytically generated halogen viricides. <i>Chemical Engineering Journal</i> , 2014, 253, 538-543.	6.6	20
130	Intrinsic Pseudocapacitive Affinity in Manganese Spinel Ferrite Nanospheres for High-Performance Selective Capacitive Removal of Ca^{2+} and Mg^{2+} . <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 38886-38896.	4.0	20
131	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.	5.8	19
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