Bingsen Zhang

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243 papers	10,940 citations	53 h-index	95 g-index
261 ext. papers	13,221 ext. citations	9.4 avg, IF	6.57 L-index

#	Paper	IF	Citations
243	Topological Defects in Metal-Free Nanocarbon for Oxygen Electrocatalysis. *Advanced Materials*, **2016**, 28, 6845-51	24	522
242	High performance platinum single atom electrocatalyst for oxygen reduction reaction. *Nature Communications*, **2017**, 8, 15938	17.4	438
241	Trends in activity for the oxygen evolution reaction on transition metal (M = Fe, Co, Ni) phosphide pre-catalysts. *Chemical Science*, **2018**, 9, 3470-3476	9.4	309
240	Toward Full Exposure of "Active Sites" Nanocarbon Electrocatalyst with Surface Enriched Nitrogen for Superior Oxygen Reduction and Evolution Reactivity. *Advanced Functional Materials*, **2014**, 24, 5956-5961	15.6	300
239	Unravelling the structure of electrocatalytically active Fe-N complexes in carbon for the oxygen reduction reaction. *Angewandte Chemie - International Edition*, **2014**, 53, 10673-7	16.4	281
238	Boosting the hydrogen evolution performance of ruthenium clusters through synergistic coupling with cobalt phosphide. *Energy and Environmental Science*, **2018**, 11, 1819-1827	35.4	256
237	Aromatic sulfide, sulfoxide, and sulfone mediated mesoporous carbon monolith for use in supercapacitor. *Nano Energy*, **2012**, 1, 624-630	17.1	248
236	Hierarchically aminated graphene honeycombs for electrochemical capacitive energy storage. *Journal of Materials Chemistry*, **2012**, 22, 14076		239
235	Rod-shaped Fe2O3 as an efficient catalyst for the selective reduction of nitrogen oxide by ammonia. *Angewandte Chemie - International Edition*, **2012**, 51, 2989-93	16.4	223
234	Classical strong metal-support interactions between gold nanoparticles and titanium dioxide. *Science Advances*, **2017**, 3, e1700231	14.3	213
233	Macroporous 'bubble' graphene film via template-directed ordered-assembly for high rate supercapacitors. *Chemical Communications*, **2012**, 48, 7149-51	5.8	193
232	Oxidative dehydrogenation on nanocarbon: identification and quantification of active sites by chemical titration. *Angewandte Chemie - International Edition*, **2013**, 52, 14224-8	16.4	190
231	High efficiency photocatalytic hydrogen production over ternary Cu/TiO2@Ti3C2Tx enabled by low-work-function 2D titanium carbide. *Nano Energy*, **2018**, 53, 97-107	17.1	187
230	Sinter-resistant metal nanoparticle catalysts achieved by immobilization within zeolite crystals via seed-directed growth. *Nature Catalysis*, **2018**, 1, 540-546	36.5	175
229	Sulfur and nitrogen co-doped carbon nanotubes for enhancing electrochemical oxygen reduction activity in acidic and alkaline media. *Journal of Materials Chemistry A*, **2013**, 1, 14853	13	173
228	Electron microscopy of solid catalysts--transforming from a challenge to a toolbox. *Chemical Reviews*, **2015**, 115, 2818-82	68.1	159
227	Catalytic Pt-on-Au nanostructures: why Pt becomes more active on smaller Au particles. *ACS Nano*, **2012**, 6, 2226-36	16.7	151

226	A Surface Defect-Promoted Ni Nanocatalyst with Simultaneously Enhanced Activity and Stability. *Chemistry of Materials*, **2013**, 25, 1040-1046	9.6	150
225	The simplest construction of single-site catalysts by the synergism of micropore trapping and nitrogen anchoring. *Nature Communications*, **2019**, 10, 1657	17.4	144
224	3D Mesoporous van der Waals Heterostructures for Trifunctional Energy Electrocatalysis. *Advanced Materials*, **2018**, 30, 1705110	24	132
223	Insights into Interfacial Synergistic Catalysis over Ni@TiO Catalyst toward Water-Gas Shift Reaction. *Journal of the American Chemical Society*, **2018**, 140, 11241-11251	16.4	129
222	Revealing the enhanced catalytic activity of nitrogen-doped carbon nanotubes for oxidative dehydrogenation of propane. *Chemical Communications*, **2013**, 49, 8151-3	5.8	129
221	Revealing the Origin of Activity in Nitrogen-Doped Nanocarbons towards Electrocatalytic Reduction of Carbon Dioxide. *ChemSusChem*, **2016**, 9, 1085-9	8.3	124
220	Enhanced Chemoselective Hydrogenation through Tuning the Interaction between Pt Nanoparticles and Carbon Supports: Insights from Identical Location Transmission Electron Microscopy and X-ray Photoelectron Spectroscopy. *ACS Catalysis*, **2016**, 6, 7844-7854	13.1	119
219	Nanosizing intermetallic compounds onto carbon nanotubes: active and selective hydrogenation catalysts. *Angewandte Chemie - International Edition*, **2011**, 50, 10231-5	16.4	117
218	Nitrogen-doped onion-like carbon: a novel and efficient metal-free catalyst for epoxidation reaction. *Journal of Materials Chemistry A*, **2014**, 2, 12475-12483	13	112
217	One-Step Synthesis of AuPd Alloy Nanodendrites and Their Catalytic Activity. *Journal of Physical Chemistry C*, **2013**, 117, 12526-12536	3.8	110
216	Highly dispersed TiO6 units in a layered double hydroxide for water splitting. *Chemistry - A European Journal*, **2012**, 18, 11949-58	4.8	104
215	Dual-heteroatom-modified ordered mesoporous carbon: Hydrothermal functionalization, structure, and its electrochemical performance. *Journal of Materials Chemistry*, **2012**, 22, 4963		99
214	TiO2 /Cu2 O Core/Ultrathin Shell Nanorods as Efficient and Stable Photocatalysts for Water Reduction. *Angewandte Chemie - International Edition*, **2015**, 54, 15260-5	16.4	91
213	Hybrid nanocarbon as a catalyst for direct dehydrogenation of propane: formation of an active and selective core-shell sp2/sp3 nanocomposite structure. *Chemistry - A European Journal*, **2014**, 20, 6324-31	4.8	88
212	Regulating p-block metals in perovskite nanodots for efficient electrocatalytic water oxidation. *Nature Communications*, **2017**, 8, 934	17.4	83
211	Direct Insight into Ethane Oxidative Dehydrogenation over Boron Nitrides. *ChemCatChem*, **2017**, 9, 3293-3297	5.2	80
210	Nitrogen-doped carbon nanotubes encapsulate cobalt nanoparticles as efficient catalysts for aerobic and solvent-free selective oxidation of hydrocarbons. *Green Chemistry*, **2017**, 19, 2164-2173	10	74
209	Bottom-Up Construction of Active Sites in a Cu-N-C Catalyst for Highly Efficient Oxygen Reduction Reaction. *ACS Nano*, **2019**, 13, 3177-3187	16.7	73

208	Tent-pitching-inspired high-valence period 3-cation pre-intercalation excels for anode of 2D titanium carbide (MXene) with high Li storage capacity. *Energy Storage Materials*, **2019**, 16, 163-168	19.4	72
207	Oxygen-rich carbon nanotube networks for enhanced lithium metal anode. *Energy Storage Materials*, **2018**, 15, 308-314	19.4	72
206	Efficient and highly selective boron-doped carbon materials-catalyzed reduction of nitroarenes. *Chemical Communications*, **2015**, 51, 13086-9	5.8	71
205	The role of palladium dynamics in the surface catalysis of coupling reactions. *Angewandte Chemie - International Edition*, **2013**, 52, 2114-7	16.4	69
204	Chemical Vapor Deposition of Pd(C3H5)(C5H5) to Synthesize Pd@MOF-5 Catalysts for Suzuki Coupling Reaction. *Catalysis Letters*, **2012**, 142, 313-318	2.8	68
203	Controllable Synthesis of Cobalt Monoxide Nanoparticles and the Size-Dependent Activity for Oxygen Reduction Reaction. *ACS Catalysis*, **2014**, 4, 2998-3001	13.1	66
202	Hollow cobalt phosphide octahedral pre-catalysts with exceptionally high intrinsic catalytic activity for electro-oxidation of water and methanol. *Journal of Materials Chemistry A*, **2018**, 6, 20646-20652	13	66
201	Identifying active sites of CoNC/CNT from pyrolysis of molecularly defined complexes for oxidative esterification and hydrogenation reactions. *Catalysis Science and Technology*, **2016**, 6, 1007-1015	5.5	65
200	Oxygen Clusters Distributed in Graphene with Paddy Land Structure: Ultrahigh Capacitance and Rate Performance for Supercapacitors. *Advanced Functional Materials*, **2018**, 28, 1705258	15.6	65
199	Boron-doped onion-like carbon with enriched substitutional boron: the relationship between electronic properties and catalytic performance. *Journal of Materials Chemistry A*, **2015**, 3, 21805-21814	13	64
198	Strong metal support interactions between palladium and iron oxide and their effect on CO oxidation. *Journal of Catalysis*, **2014**, 317, 220-228	7.3	63
197	Hierarchically porous carbon with manganese oxides as highly efficient electrode for asymmetric supercapacitors. *ChemSusChem*, **2014**, 7, 841-7	8.3	61
196	Layered-carbon-stabilized iron oxide nanostructures as oxidation catalysts. *Angewandte Chemie - International Edition*, **2011**, 50, 10236-40	16.4	60
195	2D holey cobalt sulfide nanosheets derived from metal organic frameworks for high-rate sodium ion batteries with superior cyclability. *Journal of Materials Chemistry A*, **2018**, 6, 14324-14329	13	60
194	An Efficient Reusable Mesoporous Solid-Based Pd Catalyst for Selective C2 Arylation of Indoles in Water. *ACS Catalysis*, **2016**, 6, 1062-1074	13.1	58
193	Ultrastable Au nanoparticles on titania through an encapsulation strategy under oxidative atmosphere. *Nature Communications*, **2019**, 10, 5790	17.4	56
192	Selective Catalysis Remedies Polysulfide Shuttling in Lithium-Sulfur Batteries. *Advanced Materials*, **2021**, 33, e2101006	24	55
191	Reaction-Induced Strong Metal-Support Interactions between Metals and Inert Boron Nitride Nanosheets. *Journal of the American Chemical Society*, **2020**, 142, 17167-17174	16.4	53

190	2D titanium carbide (MXene) electrodes with lower-F surface for high performance lithium-ion batteries. *Journal of Energy Chemistry*, **2019**, 31, 148-153	12	52
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185	Poison Tolerance to the Selective Hydrogenation of Cinnamaldehyde in Water over an Ordered Mesoporous Carbonaceous Composite Supported Pd Catalyst. *ACS Catalysis*, **2017**, 7, 2074-2087	13.1	50
184	Insight into the Enhanced Selectivity of Phosphate-Modified Annealed Nanodiamond for Oxidative Dehydrogenation Reactions. *ACS Catalysis*, **2015**, 5, 2436-2444	13.1	49
183	Synergistic Effects for Enhanced Catalysis in a Dual Single-Atom Catalyst. *ACS Catalysis*, **2021**, 11, 1952-1961	13.1	48
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180	Silicon–nickel intermetallic compounds supported on silica as a highly efficient catalyst for CO methanation. *Catalysis Science and Technology*, **2014**, 4, 53-61	5.5	46
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169	Surface chemistry of nanocarbon: Characterization strategies from the viewpoint of catalysis and energy conversion. *Carbon*, **2019**, 143, 915-936	10.4	42
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165	Interfacial FeC-Cu catalysts toward low-pressure syngas conversion to long-chain alcohols. *Nature Communications*, **2020**, 11, 61	17.4	39
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163	There is plenty of space in the MXene layers: The confinement and fillings. *Journal of Energy Chemistry*, **2020**, 48, 344-363	12	37
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157	Efficient polysulfide blocker from conductive niobium nitride@graphene for Li-S batteries. *Journal of Energy Chemistry*, **2020**, 45, 135-141	12	36
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155	Controlled preparation and characterization of supported CuCr2O4 catalysts for hydrogenolysis of highly concentrated glycerol. *Catalysis Science and Technology*, **2013**, 3, 1108	5.5	35

154	Plasmonic-induced inhibition and enhancement of the electrocatalytic activity of Pd-Au hetero-nanoraspberries for ethanol oxidation. *Journal of Power Sources*, **2016**, 316, 29-36	8.9	35
153	Monodisperse embedded nanoparticles derived from an atomic metal-dispersed precursor of layered double hydroxide for architectured carbon nanotube formation. *Journal of Materials Chemistry A*, **2014**, 2, 1686	13	34
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149	Stable overall water splitting in an asymmetric acid/alkaline electrolyzer comprising a bipolar membrane sandwiched by bifunctional cobalt-nickel phosphide nanowire electrodes **2020**, 2, 646-655		33
148	Manipulating interstitial carbon atoms in the nickel octahedral site for highly efficient hydrogenation of alkyne. *Nature Communications*, **2020**, 11, 3324	17.4	32
147	Proinflammatory effects of diesel exhaust nanoparticles on scleroderma skin cells. *Journal of Immunology Research*, **2014**, 2014, 138751	4.5	32
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121	Porous V2O5-SnO2/CNTs composites as high performance cathode materials for lithium-ion batteries. *Journal of Energy Chemistry*, **2013**, 22, 347-355	12	22
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97	Phosphate-modified carbon nanotubes in the oxidative dehydrogenation of isopentanes. *ChemSusChem*, **2014**, 7, 3476-82	8.3	16
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