Yong Wang

List of Publications by Citations

190 papers	21,676 citations	66 h-index	146 g-index
211 ext. papers	24,755 ext. citations	9.9 avg, IF	7.34 L-index

#	Paper	IF	Citations
190	Polymeric graphitic carbon nitride as a heterogeneous organocatalyst: from photochemistry to multipurpose catalysis to sustainable chemistry. *Angewandte Chemie - International Edition*, **2012**, 51, 68-89	16.4	2479
189	In situ cobalt-cobalt oxide/N-doped carbon hybrids as superior bifunctional electrocatalysts for hydrogen and oxygen evolution. *Journal of the American Chemical Society*, **2015**, 137, 2688-94	16.4	1328
188	Thermally stable single-atom platinum-on-ceria catalysts via atom trapping. *Science*, **2016**, 353, 150-4	33.3	1065
187	Non-Noble Metal-based Carbon Composites in Hydrogen Evolution Reaction: Fundamentals to Applications. *Advanced Materials*, **2017**, 29, 1605838	24	900
186	Activation of surface lattice oxygen in single-atom Pt/CeO for low-temperature CO oxidation. *Science*, **2017**, 358, 1419-1423	33.3	740
185	Highly selective hydrogenation of phenol and derivatives over a Pd@carbon nitride catalyst in aqueous media. *Journal of the American Chemical Society*, **2011**, 133, 2362-5	16.4	588
184	Boron- and fluorine-containing mesoporous carbon nitride polymers: metal-free catalysts for cyclohexane oxidation. *Angewandte Chemie - International Edition*, **2010**, 49, 3356-9	16.4	586
183	Biomass-derived carbon: synthesis and applications in energy storage and conversion. *Green Chemistry*, **2016**, 18, 4824-4854	10	560
182	Synthesis of palladium nanoparticles supported on mesoporous N-doped carbon and their catalytic ability for biofuel upgrade. *Journal of the American Chemical Society*, **2012**, 134, 16987-90	16.4	443
181	Excellent Visible-Light Photocatalysis of Fluorinated Polymeric Carbon Nitride Solids. *Chemistry of Materials*, **2010**, 22, 5119-5121	9.6	443
180	Oxygen electrocatalysts for water electrolyzers and reversible fuel cells: status and perspective. *Energy and Environmental Science*, **2012**, 5, 9331	35.4	415
179	Crystalline Carbon Hollow Spheres, Crystalline Carbon□SnO2 Hollow Spheres, and Crystalline SnO2 Hollow Spheres: Synthesis and Performance in Reversible Li-Ion Storage. *Chemistry of Materials*, **2006**, 18, 1347-1353	9.6	364
178	Molybdenum-Carbide-Modified Nitrogen-Doped Carbon Vesicle Encapsulating Nickel Nanoparticles: A Highly Efficient, Low-Cost Catalyst for Hydrogen Evolution Reaction. *Journal of the American Chemical Society*, **2015**, 137, 15753-9	16.4	350
177	Synthesis of boron doped polymeric carbon nitride solids and their use as metal-free catalysts for aliphatic C□H bond oxidation. *Chemical Science*, **2011**, 2, 446-450	9.4	345
176	Carbon-supported bimetallic Pd□e catalysts for vapor-phase hydrodeoxygenation of guaiacol. *Journal of Catalysis*, **2013**, 306, 47-57	7.3	319
175	Inspired by bread leavening: one-pot synthesis of hierarchically porous carbon for supercapacitors. *Green Chemistry*, **2015**, 17, 4053-4060	10	310
174	Solvent-free aerobic oxidation of hydrocarbons and alcohols with Pd@N-doped carbon from glucose. *Nature Communications*, **2013**, 4, 1593	17.4	293

173	High Catalytic Activity and Chemoselectivity of Sub-nanometric Pd Clusters on Porous Nanorods of CeO2 for Hydrogenation of Nitroarenes. *Journal of the American Chemical Society*, **2016**, 138, 2629-37	16.4	291
172	In Situ-Generated Co0-Co3O4/N-Doped Carbon Nanotubes Hybrids as Efficient and Chemoselective Catalysts for Hydrogenation of Nitroarenes. *ACS Catalysis*, **2015**, 5, 4783-4789	13.1	290
171	Highly uniform Ru nanoparticles over N-doped carbon: pH and temperature-universal hydrogen release from water reduction. *Energy and Environmental Science*, **2018**, 11, 800-806	35.4	286
170	Facile one-pot synthesis of nanoporous carbon nitride solids by using soft templates. *ChemSusChem* , **2010**, 3, 435-9	8.3	285
169	Metal/Porous Carbon Composites for Heterogeneous Catalysis: Old Catalysts with Improved Performance Promoted by N-Doping. *ACS Catalysis*, **2017**, 7, 8090-8112	13.1	265
168	Bimetallic catalysts for hydrogen generation. *Chemical Society Reviews*, **2012**, 41, 7994-8008	58.5	247
167	Polymeres graphitisches Kohlenstoffnitrid als heterogener Organokatalysator: von der Photochemie über die Vielzweckkatalyse hin zur nachhaltigen Chemie. *Angewandte Chemie*, **2012**, 124, 70-92	3.6	227
166	Graphitic carbon nitride polymers: promising catalysts or catalyst supports for heterogeneous oxidation and hydrogenation. *Green Chemistry*, **2015**, 17, 715-736	10	216
165	Nitrogen-doped porous carbon materials: promising catalysts or catalyst supports for heterogeneous hydrogenation and oxidation. *Catalysis Science and Technology*, **2016**, 6, 3670-3693	5.5	202
164	Direct conversion of bio-ethanol to isobutene on nanosized Zn(x)Zr(y)O(z) mixed oxides with balanced acid-base sites. *Journal of the American Chemical Society*, **2011**, 133, 11096-9	16.4	196
163	A theoretical investigation of the interactions between water molecules and ionic liquids. *Journal of Physical Chemistry B*, **2006**, 110, 24646-51	3.4	193
162	Effects of Cellulose, Hemicellulose, and Lignin on the Structure and Morphology of Porous Carbons. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 3750-3756	8.3	186
161	Prediction of the solvation and structural properties of ionic liquids in water by two-dimensional correlation spectroscopy. *Journal of Physical Chemistry B*, **2008**, 112, 6411-9	3.4	181
160	A novel catalyst Pd@ompg-C 3 N 4 for highly chemoselective hydrogenation of quinoline under mild conditions. *Journal of Catalysis*, **2013**, 297, 272-280	7.3	178
159	Fe incorporated α-Co(OH)2 nanosheets with remarkably improved activity towards the oxygen evolution reaction. *Journal of Materials Chemistry A*, **2017**, 5, 1078-1084	13	159
158	Carbon nitride in energy conversion and storage: recent advances and future prospects. *ChemSusChem*, **2015**, 8, 931-46	8.3	158
157	Metal-free allylic/benzylic oxidation strategies with molecular oxygen: recent advances and future prospects. *Green Chemistry*, **2014**, 16, 2344	10	157
156	Dumbbell-Shaped Bi-component Mesoporous Janus Solid Nanoparticles for Biphasic Interface Catalysis. *Angewandte Chemie - International Edition*, **2017**, 56, 8459-8463	16.4	152

155	Novel quaternary ammonium ionic liquids and their use as dual solvent-catalysts in the hydrolytic reaction. *Green Chemistry*, **2006**, 8, 96-99	10	151
154	Cobalt Encapsulated in N-Doped Graphene Layers: An Efficient and Stable Catalyst for Hydrogenation of Quinoline Compounds. *ACS Catalysis*, **2016**, 6, 5816-5822	13.1	147
153	Gold nanoparticles stabilized by an amphiphilic pillar[5]arene: preparation, self-assembly into composite microtubes in water and application in green catalysis. *Chemical Science*, **2013**, 4, 3667	9.4	140
152	Dominating Role of Ni on the Interface of Ni/NiO for Enhanced Hydrogen Evolution Reaction. *ACS Applied Materials & Interfaces*, **2017**, 9, 7139-7147	9.5	139
151	Improving hydrothermal carbonization by using poly(ionic liquid)s. *Angewandte Chemie - International Edition*, **2013**, 52, 6028-32	16.4	126
150	Hollow carbon spheres with a controllable shell structure. *Journal of Materials Chemistry*, **2006**, 16, 4413		125
149	RuPd Alloy Nanoparticles Supported on N-Doped Carbon as an Efficient and Stable Catalyst for Benzoic Acid Hydrogenation. *ACS Catalysis*, **2015**, 5, 3100-3107	13.1	118
148	Preparation of simple ammonium ionic liquids and their application in the cracking of dialkoxypropanes. *Green Chemistry*, **2006**, 8, 603	10	116
147	Highly selective Pd@mpg-C3N4 catalyst for phenol hydrogenation in aqueous phase. *RSC Advances*, **2013**, 3, 10973	3.7	114
146	Metal-free oxidation of sulfides by carbon nitride with visible light illumination at room temperature. *Green Chemistry*, **2012**, 14, 1904	10	109
145	Ionic liquids with metal chelate anions. *Chemical Communications*, **2012**, 48, 2334-6	5.8	107
144	Probing electron density of H-bonding between cation-anion of imidazolium-based ionic liquids with different anions by vibrational spectroscopy. *Journal of Physical Chemistry B*, **2010**, 114, 2828-33	3.4	106
143	Visible-Light-Induced Metal-Free Allylic Oxidation Utilizing a Coupled Photocatalytic System of g-C3N4 and N-Hydroxy Compounds. *Advanced Synthesis and Catalysis*, **2011**, 353, 1447-1451	5.6	101
142	Enhanced Fe2O3 Reducibility via Surface Modification with Pd: Characterizing the Synergy within Pd/Fe Catalysts for Hydrodeoxygenation Reactions. *ACS Catalysis*, **2014**, 4, 3381-3392	13.1	99
141	Asymmetric Flasklike Hollow Carbonaceous Nanoparticles Fabricated by the Synergistic Interaction between Soft Template and Biomass. *Journal of the American Chemical Society*, **2017**, 139, 2657-2663	16.4	98
140	Palladium nanoparticles supported on mpg-C3N4 as active catalyst for semihydrogenation of phenylacetylene under mild conditions. *Green Chemistry*, **2013**, 15, 2525	10	98
139	Increasing Solar Absorption of Atomically Thin 2D Carbon Nitride Sheets for Enhanced Visible-Light Photocatalysis. *Advanced Materials*, **2019**, 31, e1807540	24	96
138	3D-interconnected hierarchical porous N-doped carbon supported ruthenium nanoparticles as an efficient catalyst for toluene and quinoline hydrogenation. *Green Chemistry*, **2016**, 18, 6082-6090	10	90

137	Hydrogenation of Benzoic Acid and Derivatives over Pd Nanoparticles Supported on N-Doped Carbon Derived from Glucosamine Hydrochloride. *ACS Catalysis*, **2014**, 4, 3132-3135	13.1	88
136	Force field of the TMGL ionic liquid and the solubility of SO2 and CO2 in the TMGL from molecular dynamics simulation. *Journal of Physical Chemistry B*, **2007**, 111, 10461-7	3.4	88
135	Boron- and Fluorine-Containing Mesoporous Carbon Nitride Polymers: Metal-Free Catalysts for Cyclohexane Oxidation. *Angewandte Chemie*, **2010**, 122, 3428-3431	3.6	87
134	Updating biomass into functional carbon material in ionothermal manner. *ACS Applied Materials & Interfaces*, **2014**, 6, 12515-22	9.5	81
133	Morphology Dynamics of Single-Layered Ni(OH)/NiOOH Nanosheets and Subsequent Fe Incorporation Studied by in Situ Electrochemical Atomic Force Microscopy. *Nano Letters*, **2017**, 17, 6922-6926	11.5	79
132	Selective oxidation of benzene to phenol by FeCl3/mpg-C3N4 hybrids. *RSC Advances*, **2013**, 3, 5121	3.7	79
131	Nitrogen-doped hollow carbon hemispheres as efficient metal-free electrocatalysts for oxygen reduction reaction in alkaline medium. *Journal of Materials Chemistry A*, **2014**, 2, 605-609	13	77
130	An Efficient Way To Introduce Hierarchical Structure into Biomass-Based Hydrothermal Carbonaceous Materials. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 2435-2441	8.3	77
129	The chemical nature of the (plus sign in circle)C-H...X- (X=Cl or Br) interaction in imidazolium halide ionic liquids. *Journal of Chemical Physics*, **2006**, 124, 044504	3.9	73
128	Ultramicroporous carbon cloth for flexible energy storage with high areal capacitance. *Energy Storage Materials*, **2017**, 7, 216-221	19.4	72
127	MnO2 nanograsses on porous carbon cloth for flexible solid-state asymmetric supercapacitors with high energy density. *Energy Storage Materials*, **2017**, 8, 127-133	19.4	71
126	Combination of carbon nitride and carbon nanotubes: synergistic catalysts for energy conversion. *ChemSusChem*, **2014**, 7, 2303-9	8.3	71
125	Controlled Synthesis of Ordered Mesoporous Carbohydrate-Derived Carbons with Flower-like Structure and N-Doping by Self-Transformation. *Chemistry of Materials*, **2014**, 26, 6872-6877	9.6	70
124	Design and fabrication of hierarchically porous carbon with a template-free method. *Scientific Reports*, **2014**, 4, 6349	4.9	65
123	Selective Hydrogenation of Phenol to Cyclohexanone in Water over Pd@N-Doped Carbon Derived from Ionic-Liquid Precursors. *ChemCatChem*, **2014**, 6, 3328-3332	5.2	64
122	Comparison of the blue-shifted C-D stretching vibrations for DMSO-d(6) in imidazolium-based room temperature ionic liquids and in water. *Journal of Physical Chemistry B*, **2009**, 113, 5978-84	3.4	64
121	Structure and conformation properties of 1-alkyl-3-methylimidazolium halide ionic liquids: a density-functional theory study. *Journal of Chemical Physics*, **2005**, 123, 174501	3.9	64
120	Highly efficient and chemoselective hydrogenation of □unsaturated carbonyls over Pd/N-doped hierarchically porous carbon. *Catalysis Science and Technology*, **2015**, 5, 397-404	5.5	63

119	Cellulose-based hydrophobic carbon aerogels as versatile and superior adsorbents for sewage treatment. *RSC Advances*, **2014**, 4, 45753-45759	3.7	59
118	Surface Activated Hydrothermal Carbon-Coated Electrospun PAN Fiber Membrane with Enhanced Adsorption Properties for Herbicide. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 2584-2592	8.3	59
117	Improved electrocatalytic activity for ethanol oxidation by Pd@N-doped carbon from biomass. *Chemical Communications*, **2014**, 50, 12637-40	5.8	58
116	Difference for SO2 and CO2 in TGML ionic liquids: a theoretical investigation. *Physical Chemistry Chemical Physics*, **2008**, 10, 5976-82	3.6	56
115	Mesoporous nitrogen-doped carbon for copper-mediated Ullmann-type C□O/N/S cross-coupling reactions. *RSC Advances*, **2013**, 3, 1890-1895	3.7	50
114	Controlled synthesis of sustainable N-doped hollow core-mesoporous shell carbonaceous nanospheres from biomass. *Nano Research*, **2014**, 7, 1809-1819	10	50
113	From □waste to gold□a one-pot method to synthesize ultrafinely dispersed Fe2O3-based nanoparticles on N-doped carbon for synergistic and efficient water splitting. *Journal of Materials Chemistry A*, **2015**, 3, 11756-11761	13	48
112	Sustainable and scalable production of monodisperse and highly uniform colloidal carbonaceous spheres using sodium polyacrylate as the dispersant. *Chemical Communications*, **2014**, 50, 12633-6	5.8	48
111	A practical and benign synthesis of amines through Pd@mpg-C3N4 catalyzed reduction of nitriles. *Catalysis Communications*, **2012**, 28, 9-12	3.2	47
110	Low-crystalline tungsten trioxide anode with superior electrochemical performance for flexible solid-state asymmetry supercapacitor. *Journal of Materials Chemistry A*, **2018**, 6, 8986-8991	13	46
109	Two-dimensional materials confining single atoms for catalysis. *Chinese Journal of Catalysis*, **2017**, 38, 1443-1453	11.3	45
108	Transition Metal Induced the Contraction of Tungsten Carbide Lattice as Superior Hydrogen Evolution Reaction Catalyst. *ACS Applied Materials & Interfaces*, **2018**, 10, 22094-22101	9.5	45
107	A general synthetic approach for hexagonal phase tungsten nitride composites and their application in the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2018**, 6, 10967-10975	13	44
106	Ni-promoted synthesis of graphitic carbon nanotubes from in situ produced graphitic carbon for dehydrogenation of ethylbenzene. *Chemical Communications*, **2015**, 51, 12859-62	5.8	43
105	Fabricating Metal@N-Doped Carbon Catalysts via a Thermal Method. *ACS Catalysis*, **2018**, 8, 7077-7085	13.1	43
104	Aerobic oxidative coupling of resveratrol and its analogues by visible light using mesoporous graphitic carbon nitride (mpg-C(3)N(4)) as a bioinspired catalyst. *Chemistry - A European Journal*, **2014**, 20, 678-82	4.8	41
103	Characterizing the structural properties of N,N-dimethylformamide-based ionic liquid: density-functional study. *Journal of Physical Chemistry B*, **2007**, 111, 11016-20	3.4	41
102	CoOx□arbon nanotubes hybrids integrated on carbon cloth as a new generation of 3D porous hydrogen evolution promoters. *Journal of Materials Chemistry A*, **2017**, 5, 10510-10516	13	40

101	Mixed-metal MOF-derived Co-doped Ni3C/Ni NPs embedded in carbon matrix as an efficient electrocatalyst for oxygen evolution reaction. *International Journal of Hydrogen Energy*, **2019**, 44, 24572-24579	6.7	40
100	Post-functionalization of graphitic carbon nitrides by grafting organic molecules: toward C-H bond oxidation using atmospheric oxygen. *Chemical Communications*, **2014**, 50, 6312-5	5.8	40
99	The synergic effects at the molecular level in CoS2 for selective hydrogenation of nitroarenes. *Green Chemistry*, **2018**, 20, 671-679	10	39
98	In Situ Synthesis of Chitin-Derived Rh/N□ Cataylsts: Efficient Hydrogenation of Benzoic Acid and Derivatives. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 9894-9902	8.3	39
97	Highly efficient water desalination by capacitive deionization on biomass-derived porous carbon nanoflakes. *Separation and Purification Technology*, **2021**, 256, 117771	8.3	39
96	PdZn intermetallic on a CN@ZnO hybrid as an efficient catalyst for the semihydrogenation of alkynols. *Journal of Catalysis*, **2017**, 350, 13-20	7.3	38
95	The chemical nature of N doping on N doped carbon supported noble metal catalysts. *Journal of Catalysis*, **2019**, 375, 456-465	7.3	38
94	Mesoporous zwitterionic poly(ionic liquid)s: intrinsic complexation and efficient catalytic fixation of CO2. *Polymer Chemistry*, **2013**, 4, 5048	4.9	38
93	Effects of imidazolium salts as cocatalysts on the copolymerization of CO2 with epoxides catalyzed by (salen)CrIIICl complex. *Polymer*, **2007**, 48, 3921-3924	3.9	36
92	Efficient hydrogenation of stearic acid over carbon coated NiFe catalyst. *Journal of Catalysis*, **2018**, 367, 139-149	7.3	36
91	Rational design of hydrogenation catalysts using nitrogen-doped porous carbon. *Chinese Journal of Catalysis*, **2019**, 40, 971-979	11.3	34
90	Redispersion of Mo-Based Catalysts and the Rational Design of Super Small-Sized Metallic Mo Species. *ACS Catalysis*, **2019**, 9, 5302-5307	13.1	34
89	Acid Induced Self-Assembly Strategy to Synthesize Ordered Mesoporous Carbons from Biomass. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 4473-4479	8.3	34
88	Ultrafinely dispersed Pd nanoparticles on a CN@MgO hybrid as a bifunctional catalyst for upgrading bioderived compounds. *Green Chemistry*, **2014**, 16, 4371-4377	10	34
87	The structural organization in aqueous solutions of ionic liquids. *AICHE Journal*, **2009**, 55, 198-205	3.6	34
86	K 2 CO 3 -loaded hydrotalcite: A promising heterogeneous solid base catalyst for biolubricant base oil production from waste cooking oils. *Applied Catalysis B: Environmental*, **2017**, 209, 118-127	21.8	33
85	Selective aerobic oxidation of alcohols by a mesoporous graphitic carbon nitride/N-hydroxyphthalimide system under visible-light illumination at room temperature. *Chinese Journal of Catalysis*, **2015**, 36, 1580-1586	11.3	33
84	Efficient synthesis of ultrafine Pd nanoparticles on an activated N-doping carbon for the decomposition of formic acid. *Catalysis Communications*, **2018**, 108, 55-58	3.2	33

83	Structural identification of ZnxZryOz catalysts for Cascade aldolization and self-deoxygenation reactions. *Applied Catalysis B: Environmental*, **2018**, 234, 337-346	21.8	33
82	Improved catalytic activity and stability for hydrogenation of levulinic acid by Ru/N-doped hierarchically porous carbon. *Molecular Catalysis*, **2018**, 448, 100-107	3.3	32
81	Improving Hydrothermal Carbonization by Using Poly(ionic liquid)s. *Angewandte Chemie*, **2013**, 125, 6144-6148	3.6	30
80	Effects of ionic liquids on the oxidation of 2,3,6-trimethylphenol to trimethyl-1,4-benzoquinone under atmospheric oxygen. *Catalysis Communications*, **2009**, 10, 725-727	3.2	30
79	In Situ Formed Bimetallic Carbide Ni6Mo6C Nanodots and NiMoOx Nanosheet Array Hybrids Anchored on Carbon Cloth: Efficient and Flexible Self-Supported Catalysts for Hydrogen Evolution. *ACS Catalysis*, **2020**, 10, 11634-11642	13.1	30
78	Hydrothermal synthesis of manganese oxide encapsulated multiporous carbon nanofibers for supercapacitors. *Nano Research*, **2016**, 9, 2672-2680	10	30
77	Carbon vacancy defect-activated Pt cluster for hydrogen generation. *Journal of Materials Chemistry A*, **2019**, 7, 15364-15370	13	29
76	Oxygen vacancies on the surface of HxWO3−y for enhanced charge storage. *Journal of Materials Chemistry A*, **2018**, 6, 6780-6784	13	29
75	Ionic liquids as catalytic green solvents for cracking reactions. *Chemical Communications*, **2004**, 1938-9	5.8	29
74	Selective Hydrogenation of Phenol. *ChemNanoMat*, **2018**, 4, 432-450	3.5	28
73	A novel strategy to synthesize hierarchical, porous carbohydrate-derived carbon with tunable properties. *Nanoscale*, **2014**, 6, 13510-7	7.7	28
72	Insight into Single-Atom-Induced Unconventional Size Dependence over CeO2-Supported Pt Catalysts. *CheM*, **2020**, 6, 752-765	16.2	27
71	Preparation of dialkoxypropanes in simple ammonium ionic liquids. *Green Chemistry*, **2006**, 8, 1076	10	27
70	Pd nanoparticles anchored on amino-functionalized hierarchically porous carbon for efficient dehydrogenation of formic acid under ambient conditions. *Journal of Materials Chemistry A*, **2019**, 7, 25791-25795	13	27
69	One-step synthesis of g-C3N4 hierarchical porous structure nanosheets with dramatic ultraviolet light photocatalytic activity. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2016**, 214, 19-25	3.1	26
68	Tuning the catalytic performance for the semi-hydrogenation of alkynols by selectively poisoning the active sites of Pd catalysts. *Green Chemistry*, **2019**, 21, 4143-4151	10	26
67	Efficient Catalytic Hydrodeoxygenation of Aromatic Carbonyls over a Nitrogen-Doped Hierarchical Porous Carbon Supported Nickel Catalyst. *ChemistrySelect*, **2017**, 2, 8486-8492	1.8	25
66	Chemoselective hydrogenation of phenol to cyclohexanol using heterogenized cobalt oxide catalysts. *Chinese Chemical Letters*, **2018**, 29, 815-818	8.1	24

65	Shape Engineering of Biomass-Derived Nanoparticles from Hollow Spheres to Bowls through Solvent-Induced Buckling. *ChemSusChem*, **2018**, 11, 2540-2546	8.3	23
64	Biomass-derived ordered mesoporous carbon nano-ellipsoid encapsulated metal nanoparticles inside: ideal nanoreactors for shape-selective catalysis. *Chemical Communications*, **2019**, 56, 229-232	5.8	23
63	Sustainable and scalable synthesis of monodisperse carbon nanospheres and their derived superstructures. *Green Chemistry*, **2018**, 20, 4596-4601	10	23
62	Quenched skeletal Ni as the effective catalyst for selective partial hydrogenation of polycyclic aromatic hydrocarbons. *RSC Advances*, **2013**, 3, 23984	3.7	22
61	Organic-acid-assisted synthesis of a 3D lasagna-like Fe-N-doped CNTs-G framework: An efficient and stable electrocatalyst for oxygen reduction reactions. *Nano Research*, **2017**, 10, 1258-1267	10	21
60	Directly immobilizing a Ru□annic acid linkage coordination complex on carbon cloth: an efficient and ultrastable catalyst for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 11038-11043	13	21
59	A mild and efficient oxidation of 2,3,6-trimethylphenol to trimethyl-1,4-benzoquinone in ionic liquids. *Catalysis Communications*, **2008**, 9, 1979-1981	3.2	21
58	Understanding the synergetic interaction within □MoC/□Mo2C heterostructured electrocatalyst. *Journal of Energy Chemistry*, **2019**, 35, 66-70	12	21
57	Magnetic nano-structured cobalt□obalt oxide/nitrogen-doped carbon material as an efficient catalyst for aerobic oxidation of p -cresols. *Molecular Catalysis*, **2018**, 453, 121-131	3.3	21
56	Ultrasmall PdAu alloy nanoparticles anchored on amine-functionalized hierarchically porous carbon as additive-free catalysts for highly efficient dehydrogenation of formic acid. *Applied Catalysis B: Environmental*, **2021**, 291, 120140	21.8	21
55	Self-adaptive amorphous Co2P@Co2P/Co-polyoxometalate/nickel foam as an effective electrode for electrocatalytic water splitting in alkaline electrolyte. *International Journal of Hydrogen Energy*, **2019**, 44, 9203-9209	6.7	20
54	Highly effective Ir-based catalysts for benzoic acid hydrogenation: experiment- and theory-guided catalyst rational design. *Green Chemistry*, **2017**, 19, 1766-1774	10	18
53	Annular Mesoporous Carbonaceous Nanospheres from Biomass-Derived Building Units with Enhanced Biological Interactions. *Chemistry of Materials*, **2019**, 31, 7186-7191	9.6	18
52	Synthesis of Mesoporous Fe?N/C Materials with High Catalytic Performance in the Oxygen Reduction Reaction. *ChemCatChem*, **2015**, 7, 2937-2944	5.2	18
51	Fabrication of mesoporous magnesium substituted □tricalcium phosphate nanospheres by self-transformation and assembly involving EDTA ions. *Microporous and Mesoporous Materials*, **2013** , 179, 172-181	5.3	18
50	Cooperative Assembly of Asymmetric Carbonaceous Bivalve-Like Superstructures from Multiple Building Blocks. *Research*, **2018**, 2018, 5807980	7.8	18
49	Improving alkaline hydrogen evolution reaction kinetics on molybdenum carbide: Introducing Ru dopant. *Journal of Catalysis*, **2020**, 392, 313-321	7.3	18
48	Facile synthesis of MoS2/Cu as trifunctional catalyst for electrochemical overall water splitting and photocatalytic CO2 conversion. *Materials and Design*, **2021**, 204, 109674	8.1	18

47	Nitrogen-doped flower-like porous carbon materials directed by in situ hydrolysed MgO: Promising support for Ru nanoparticles in catalytic hydrogenations. *Nano Research*, **2016**, 9, 3129-3140	10	18
46	Ni/nitrogen-doped graphene nanotubes acted as a valuable tailor for remarkably enhanced hydrogen evolution performance of platinum-based catalysts. *Journal of Materials Chemistry A*, **2017**, 5, 16249-16254	13	17
45	Study of the role of alkaline sodium additive in selective hydrogenation of phenol. *Chinese Journal of Catalysis*, **2019**, 40, 1516-1524	11.3	17
44	Recent advances in the synthesis and applications of anisotropic carbon and silica-based nanoparticles. *Nano Research*, **2019**, 12, 1267-1278	10	17
43	Tuning the selectivity of phenol hydrogenation on Pd/C with acid and basic media. *Catalysis Communications*, **2018**, 103, 88-91	3.2	17
42	High-performance flexible redox supercapacitors induced by methylene blue with a wide voltage window. *Sustainable Energy and Fuels*, **2018**, 2, 357-360	5.8	17
41	Insight into the Role of Additives in Catalytic Synthesis of Cyclohexylamine from Nitrobenzene. *Chinese Journal of Chemistry*, **2018**, 36, 1191-1196	4.9	17
40	A flexible dual solid-stateelectrolyte supercapacitor with suppressed self-discharge and enhanced stability. *Sustainable Energy and Fuels*, **2018**, 2, 2727-2732	5.8	17
39	Rational construction of Pt/PtTex interface with optimal intermediate adsorption energy for efficient hydrogen evolution reaction. *Applied Catalysis B: Environmental*, **2021**, 299, 120640	21.8	17
38	Hydrogen Evolution Enhancement over a Cobalt-Based Schottky Interface. *ACS Applied Materials & Interfaces*, **2019**, 11, 27641-27647	9.5	16
37	Do all the protic ionic liquids exist as molecular aggregates in the gas phase?. *Physical Chemistry Chemical Physics*, **2011**, 13, 17445-8	3.6	16
36	Heterostructure of 2D CoP Nanosheets/1D Carbon Nanotubes to Significantly Boost the Alkaline Hydrogen Evolution. *Advanced Materials Interfaces*, **2020**, 7, 1901302	4.6	16
35	Bridging and bonding: Zinc and potassium co-assisted crystalline g-C3N4 for significant highly efficient upon photocatalytic hydrogen evolution. *Applied Surface Science*, **2021**, 542, 148620	6.7	15
34	Sequential Superassembly of Nanofiber Arrays to Carbonaceous Ordered Mesoporous Nanowires and Their Heterostructure Membranes for Osmotic Energy Conversion. *Journal of the American Chemical Society*, **2021**, 143, 6922-6932	16.4	15
33	Reactivity and mechanism investigation of selective hydrogenation of 2,3,5-trimethylbenzoquinone on in situ generated metallic cobalt. *Catalysis Science and Technology*, **2016**, 6, 4503-4510	5.5	14
32	Compressed CO2-enhanced solubilization of 1-butyl-3-methylimidazolium tetrafluoroborate in reverse micelles of Triton X-100. *Journal of Chemical Physics*, **2004**, 121, 7408-12	3.9	14
31	Selective Electrochemical Reduction of Nitrogen to Ammonia by Adjusting the Three-Phase Interface. *Research*, **2019**, 2019, 1401209	7.8	14
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