Xin Wang

List of Publications by Year in Descending Order

230 papers	31,165 citations	89 h-index	175 g-index
237 ext. papers	35,416 ext. citations	11.2 avg, IF	7.74 L-index

#	Paper	IF	Citations
230	Boosting microbial electrocatalysis via localized high electron shuttles concentration by monolithic electrode based on nanostructured nitrogen-doped carbon microtubes. *Journal of Power Sources*, **2021**, 514, 230557	8.9	0
229	Highly Efficient Oxygen Reduction Reaction Activity of N-Doped Carbon□Cobalt Boride Heterointerfaces. *Advanced Energy Materials*, **2021**, 11, 2100157	21.8	72
228	Structural tuning of heterogeneous molecular catalysts for electrochemical energy conversion. *Science Advances*, **2021**, 7,	14.3	11
227	Enlarging the □Conjugation of Cobalt Porphyrin for Highly Active and Selective CO Electroreduction. *ChemSusChem*, **2021**, 14, 2126-2132	8.3	9
226	Heterogeneous carbon dioxide reduction reaction by cobalt complexes of 4?,4???-disubstituted derivatives of quinquepyridine immobilized on carbon black. *Electrochimica Acta*, **2021**, 380, 138224	6.7	0
225	Tuning of lattice oxygen reactivity and scaling relation to construct better oxygen evolution electrocatalyst. *Nature Communications*, **2021**, 12, 3992	17.4	27
224	Anodic Oxidation Enabled Cation Leaching for Promoting Surface Reconstruction in Water Oxidation. *Angewandte Chemie - International Edition*, **2021**, 60, 7418-7425	16.4	38
223	Molecule Confined Isolated Metal Sites Enable the Electrocatalytic Synthesis of Hydrogen Peroxide. *Advanced Materials*, **2021**, e2104891	24	5
222	Innenr□cktitelbild: Axial Modification of Cobalt Complexes on Heterogeneous Surface with Enhanced Electron Transfer for Carbon Dioxide Reduction (Angew. Chem. 43/2020). *Angewandte Chemie*, **2020**, 132, 19527-19527	3.6	
221	Ethylene Selectivity in Electrocatalytic CO Reduction on Cu Nanomaterials: A Crystal Phase-Dependent Study. *Journal of the American Chemical Society*, **2020**, 142, 12760-12766	16.4	89
220	A review on fundamentals for designing oxygen evolution electrocatalysts. *Chemical Society Reviews*, **2020**, 49, 2196-2214	58.5	591
219	A Planar, Conjugated N -Macrocyclic Cobalt Complex for Heterogeneous Electrocatalytic CO Reduction with High Activity. *Angewandte Chemie - International Edition*, **2020**, 59, 17104-17109	16.4	36
218	A Planar, Conjugated N4-Macrocyclic Cobalt Complex for Heterogeneous Electrocatalytic CO2 Reduction with High Activity. *Angewandte Chemie*, **2020**, 132, 17252-17257	3.6	10
217	Axial Modification of Cobalt Complexes on Heterogeneous Surface with Enhanced Electron Transfer for Carbon Dioxide Reduction. *Angewandte Chemie - International Edition*, **2020**, 59, 19162-19167	16.4	38
216	Investigation of Structural Evolution of SnO Nanosheets towards Electrocatalytic CO Reduction. *Chemistry - an Asian Journal*, **2020**, 15, 1558-1561	4.5	7
215	Electrocatalytic reduction of carbon dioxide: opportunities with heterogeneous molecular catalysts. *Energy and Environmental Science*, **2020**, 13, 374-403	35.4	163
214	Axial Modification of Cobalt Complexes on Heterogeneous Surface with Enhanced Electron Transfer for Carbon Dioxide Reduction. *Angewandte Chemie*, **2020**, 132, 19324-19329	3.6	8

213	Isolated FeN Sites for Efficient Electrocatalytic CO Reduction. *Advanced Science*, **2020**, 7, 2001545	13.6	44
212	Rational Design of Metal Organic Frameworks towards Efficient Electrocatalysis **2020**, 2, 1251-1267		25
211	Augmentation of hydroxyl groups as electrocatalytic active sites in porous graphene. *Carbon*, **2019**, 154, 384-390	10.4	4
210	Boosting Electrochemical CO2 Reduction on Metal Organic Frameworks via Ligand Doping. *Angewandte Chemie*, **2019**, 131, 4081-4085	3.6	52
209	Boosting Electrochemical CO Reduction on Metal-Organic Frameworks via Ligand Doping. *Angewandte Chemie - International Edition*, **2019**, 58, 4041-4045	16.4	108
208	Tailoring of Metal Boride Morphology via Anion for Efficient Water Oxidation. *Advanced Energy Materials*, **2019**, 9, 1901503	21.8	54
207	Chemical and structural origin of lattice oxygen oxidation in Co Zn oxyhydroxide oxygen evolution electrocatalysts. *Nature Energy*, **2019**, 4, 329-338	62.3	542
206	Efficient Electrochemical Reduction of CO2 to HCOOH over Sub-2 nm SnO2 Quantum Wires with Exposed Grain Boundaries. *Angewandte Chemie*, **2019**, 131, 8587	3.6	
205	Efficient Electrochemical Reduction of CO to HCOOH over Sub-2 nm SnO Quantum Wires with Exposed Grain Boundaries. *Angewandte Chemie - International Edition*, **2019**, 58, 8499-8503	16.4	193
204	Linkage Effect in the Heterogenization of Cobalt Complexes by Doped Graphene for Electrocatalytic CO Reduction. *Angewandte Chemie - International Edition*, **2019**, 58, 13532-13539	16.4	84
203	Linkage Effect in the Heterogenization of Cobalt Complexes by Doped Graphene for Electrocatalytic CO2 Reduction. *Angewandte Chemie*, **2019**, 131, 13666-13673	3.6	17
202	Bi O Nanosheets Grown on Multi-Channel Carbon Matrix to Catalyze Efficient CO Electroreduction to HCOOH. *Angewandte Chemie - International Edition*, **2019**, 58, 13828-13833	16.4	154
201	Bi2O3 Nanosheets Grown on Multi-Channel Carbon Matrix to Catalyze Efficient CO2 Electroreduction to HCOOH. *Angewandte Chemie*, **2019**, 131, 13966-13971	3.6	25
200	Optimizing interfacial electronic coupling with metal oxide to activate inert polyaniline for superior electrocatalytic hydrogen generation **2019**, 1, 77-84		34
199	Strategies to Break the Scaling Relation toward Enhanced Oxygen Electrocatalysis. *Matter*, **2019**, 1, 1494-1518	21.7	151
198	A Water-Soluble Cu Complex as Molecular Catalyst for Electrocatalytic CO2 Reduction on Graphene-Based Electrodes. *Advanced Energy Materials*, **2019**, 9, 1803151	21.8	57
197	Facile Synthesis of Amorphous Ternary Metal Borides-Reduced Graphene Oxide Hybrid with Superior Oxygen Evolution Activity. *ACS Applied Materials & Interfaces*, **2019**, 11, 846-855	9.5	43
196	Rational Design of Transition Metal-Based Materials for Highly Efficient Electrocatalysis. *Small Methods*, **2019**, 3, 1800211	12.8	166

195	An Earth-Abundant Tungsten–Nickel Alloy Electrocatalyst for Superior Hydrogen Evolution. *ACS Applied Nano Materials*, **2018**, 1, 1228-1235	5.6	34
194	In situ formation of molecular Ni-Fe active sites on heteroatom-doped graphene as a heterogeneous electrocatalyst toward oxygen evolution. *Science Advances*, **2018**, 4, eaap7970	14.3	131
193	Ultrafast hydrothermal assembly of nanocarbon microfibers in near-critical water for 3D microsupercapacitors. *Carbon*, **2018**, 132, 698-708	10.4	20
192	Lithiation/Delithiation Synthesis of Few Layer Silicene Nanosheets for Rechargeable Li-O Batteries. *Advanced Materials*, **2018**, 30, e1705523	24	40
191	A Hierarchical MoP Nanoflake Array Supported on Ni Foam: A Bifunctional Electrocatalyst for Overall Water Splitting. *Small Methods*, **2018**, 2, 1700369	12.8	78
190	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. *Advanced Materials*, **2018**, 30, e1705516	24	273
189	Clay-Inspired MXene-Based Electrochemical Devices and Photo-Electrocatalyst: State-of-the-Art Progresses and Challenges. *Advanced Materials*, **2018**, 30, e1704561	24	301
188	Hierarchical N-Rich Carbon Sponge with Excellent Cycling Performance for Lithium-Sulfur Battery at High Rates. *Chemistry - A European Journal*, **2018**, 24, 5860-5867	4.8	13
187	Nano-RuO -Decorated Holey Graphene Composite Fibers for Micro-Supercapacitors with Ultrahigh Energy Density. *Small*, **2018**, 14, e1800582	11	85
186	Selective Electrochemical H2O2 Production through Two-Electron Oxygen Electrochemistry. *Advanced Energy Materials*, **2018**, 8, 1801909	21.8	263
185	Ultrathin Amorphous Iron-Nickel Boride Nanosheets for Highly Efficient Electrocatalytic Oxygen Production. *Chemistry - A European Journal*, **2018**, 24, 18502-18511	4.8	52
184	Enlarged Co?O Covalency in Octahedral Sites Leading to Highly Efficient Spinel Oxides for Oxygen Evolution Reaction. *Advanced Materials*, **2018**, 30, e1802912	24	205
183	An Efficient and Earth-Abundant Oxygen-Evolving Electrocatalyst Based on Amorphous Metal Borides. *Advanced Energy Materials*, **2018**, 8, 1701475	21.8	220
182	Heterogeneous Electrocatalyst with Molecular Cobalt Ions Serving as the Center of Active Sites. *Journal of the American Chemical Society*, **2017**, 139, 1878-1884	16.4	101
181	Ag containing porous Au structures as highly selective catalysts for glycolate and formate. *Catalysis Science and Technology*, **2017**, 7, 874-881	5.5	12
180	A microporous Mg2+ MOF with cation exchange properties in a single-crystal-to-single-crystal fashion. *Inorganic Chemistry Frontiers*, **2017**, 4, 530-536	6.8	16
179	Free-standing vertically-aligned nitrogen-doped carbon nanotube arrays/graphene as air-breathing electrodes for rechargeable zinc–air batteries. *Journal of Materials Chemistry A*, **2017**, 5, 2488-2495	13	71
178	Hydrothermal assembly of micro-nano-integrated core-sheath carbon fibers for high-performance all-carbon micro-supercapacitors. *Energy Storage Materials*, **2017**, 9, 221-228	19.4	26

177	Recent Methods for the Synthesis of Noble-Metal-Free Hydrogen-Evolution Electrocatalysts: From Nanoscale to Sub-nanoscale. *Small Methods*, **2017**, 1, 1700118	12.8	76
176	Molybdenum Carbide-Based Electrocatalysts for Hydrogen Evolution Reaction. *Chemistry - A European Journal*, **2017**, 23, 10947-10961	4.8	211
175	3D ordered porous MoC (x = 1 or 2) for advanced hydrogen evolution and Li storage. *Nanoscale*, **2017**, 9, 7260-7267	7.7	48
174	Octahedral PtNi nanoparticles with controlled surface structure and composition for oxygen reduction reaction. *Science China Materials*, **2017**, 60, 1109-1120	7.1	18
173	Nitrified coke wastewater sludge flocs: an attractive precursor for N,S dual-doped graphene-like carbon with ultrahigh capacitance and oxygen reduction performance. *Journal of Materials Chemistry A*, **2017**, 5, 2012-2020	13	33
172	Hexagonal-Phase Cobalt Monophosphosulfide for Highly Efficient Overall Water Splitting. *ACS Nano*, **2017**, 11, 11031-11040	16.7	239
171	Switching charge transfer of C3N4/W18O49 from type-II to Z-scheme by interfacial band bending for highly efficient photocatalytic hydrogen evolution. *Nano Energy*, **2017**, 40, 308-316	17.1	235
170	Formation of Ni-Fe Mixed Diselenide Nanocages as a Superior Oxygen Evolution Electrocatalyst. *Advanced Materials*, **2017**, 29, 1703870	24	327
169	Selective Electrochemical Reduction of CO to Ethylene on Nanopores-Modified Copper Electrodes in Aqueous Solution. *ACS Applied Materials & Interfaces*, **2017**, 9, 32782-32789	9.5	57
168	Highly Efficient and Durable Pd Hydride Nanocubes Embedded in 2D Amorphous NiB Nanosheets for Oxygen Reduction Reaction. *Advanced Energy Materials*, **2017**, 7, 1700919	21.8	58
167	Design of Efficient Bifunctional Oxygen Reduction/Evolution Electrocatalyst: Recent Advances and Perspectives. *Advanced Energy Materials*, **2017**, 7, 1700544	21.8	407
166	Unsupported Platinum-Based Electrocatalysts for Oxygen Reduction Reaction. *ACS Energy Letters*, **2017**, 2, 2035-2043	20.1	139
165	Copper-Modified Gold Nanoparticles as Highly Selective Catalysts for Glycerol Electro-Oxidation in Alkaline Solution. *ChemCatChem*, **2016**, 8, 3272-3278	5.2	18
164	A metal–organic framework-derived bifunctional oxygen electrocatalyst. *Nature Energy*, **2016**, 1,	62.3	1622
163	A review on noble-metal-free bifunctional heterogeneous catalysts for overall electrochemical water splitting. *Journal of Materials Chemistry A*, **2016**, 4, 17587-17603	13	740
162	Amino acid modified copper electrodes for the enhanced selective electroreduction of carbon dioxide towards hydrocarbons. *Energy and Environmental Science*, **2016**, 9, 1687-1695	35.4	204
161	Nitrogen-doped cobalt phosphate@nanocarbon hybrids for efficient electrocatalytic oxygen reduction. *Energy and Environmental Science*, **2016**, 9, 2563-2570	35.4	183
160	General Formation of M-MoS3 (M = Co, Ni) Hollow Structures with Enhanced Electrocatalytic Activity for Hydrogen Evolution. *Advanced Materials*, **2016**, 28, 92-7	24	328

159	Improving electron trans-inner membrane movements in microbial electrocatalysts. *Chemical Communications*, **2016**, 52, 6292-5	5.8	9
158	Catalysis mechanisms of CO2 and CO methanation. *Catalysis Science and Technology*, **2016**, 6, 4048-4058	5.5	218
157	Core-shell carbon materials derived from metal-organic frameworks as an efficient oxygen bifunctional electrocatalyst. *Nano Energy*, **2016**, 30, 368-378	17.1	196
156	Assembling pore-rich FeP nanorods on the CNT backbone as an advanced electrocatalyst for oxygen evolution. *Journal of Materials Chemistry A*, **2016**, 4, 13005-13010	13	67
155	Recent developments in electrode materials for sodium-ion batteries. *Journal of Materials Chemistry A*, **2015**, 3, 9353-9378	13	357
154	Efficient and durable oxygen reduction and evolution of a hydrothermally synthesized La(Co0.55Mn0.45)0.99O3-□nanorod/graphene hybrid in alkaline media. *Nanoscale*, **2015**, 7, 9046-54	7.7	64
153	Pd Nanoparticles on Carbon Nitride□Graphene for the Selective Electro-Oxidation of Glycerol in Alkaline Solution. *ACS Catalysis*, **2015**, 5, 3174-3180	13.1	58
152	Selective electro-oxidation of glycerol over Au supported on extended poly(4-vinylpyridine) functionalized graphene. *Applied Catalysis B: Environmental*, **2015**, 166-167, 25-31	21.8	14
151	Enzymatic-reaction induced production of polydopamine nanoparticles for sensitive and visual sensing of urea. *Analyst, The*, **2015**, 140, 449-55	5	14
150	Vertically oriented MoS2 and WS2 nanosheets directly grown on carbon cloth as efficient and stable 3-dimensional hydrogen-evolving cathodes. *Journal of Materials Chemistry A*, **2015**, 3, 131-135	13	229
149	Construction of Efficient 3D Gas Evolution Electrocatalyst for Hydrogen Evolution: Porous FeP Nanowire Arrays on Graphene Sheets. *Advanced Science*, **2015**, 2, 1500120	13.6	139
148	A Review of Phosphide-Based Materials for Electrocatalytic Hydrogen Evolution. *Advanced Energy Materials*, **2015**, 5, 1500985	21.8	567
147	A Flexible Electrode Based on Iron Phosphide Nanotubes for Overall Water Splitting. *Chemistry - A European Journal*, **2015**, 21, 18062-7	4.8	198
146	Improving mediated electron transport in anodic bioelectrocatalysis. *Chemical Communications*, **2015**, 51, 12170-3	5.8	23
145	Novel Molybdenum Carbide□Tungsten Carbide Composite Nanowires and Their Electrochemical Activation for Efficient and Stable Hydrogen Evolution. *Advanced Functional Materials*, **2015**, 25, 1520-1526	15.6	275
144	One-pot synthesis of Pt-Co alloy nanowire assemblies with tunable composition and enhanced electrocatalytic properties. *Angewandte Chemie - International Edition*, **2015**, 54, 3797-801	16.4	348
143	Investigation of molybdenum carbide nano-rod as an efficient and durable electrocatalyst for hydrogen evolution in acidic and alkaline media. *Applied Catalysis B: Environmental*, **2014**, 154-155, 232-237	21.8	162
142	Recent Development of Molybdenum Sulfides as Advanced Electrocatalysts for Hydrogen Evolution Reaction. *ACS Catalysis*, **2014**, 4, 1693-1705	13.1	678

141	One-pot synthesis of platinum nanocubes on reduced graphene oxide with enhanced electrocatalytic activity. *Small*, **2014**, 10, 2336-9	11	41
140	A review on the electrochemical reduction of CO2 in fuel cells, metal electrodes and molecular catalysts. *Catalysis Today*, **2014**, 233, 169-180	5.3	340
139	A CO2-responsive surface with an amidine-terminated self-assembled monolayer for stimuli-induced selective adsorption. *Chemical Communications*, **2014**, 50, 4003-6	5.8	19
138	Highly active Pd and PdAu nanoparticles supported on functionalized graphene nanoplatelets for enhanced formic acid oxidation. *RSC Advances*, **2014**, 4, 4028-4033	3.7	53
137	Compressed hydrogen gas-induced synthesis of AuPt coreshell nanoparticle chains towards high-performance catalysts for LiO2 batteries. *Journal of Materials Chemistry A*, **2014**, 2, 10676-10681	13	32
136	Graphene/NiO nanowires: controllable one-pot synthesis and enhanced pseudocapacitive behavior. *ACS Applied Materials & Interfaces*, **2014**, 6, 8246-56	9.5	94
135	Hybrid catalysts for photoelectrochemical reduction of carbon dioxide: a prospective review on semiconductor/metal complex co-catalyst systems. *Journal of Materials Chemistry A*, **2014**, 2, 15228	13	93
134	Effects of strain on PdZn(100) for methoxide decomposition: A DFT study. *Journal of Molecular Catalysis A*, **2014**, 393, 296-301		1
133	Dual-phase spinel MnCo2O4 and spinel MnCo2O4/nanocarbon hybrids for electrocatalytic oxygen reduction and evolution. *ACS Applied Materials & Interfaces*, **2014**, 6, 12684-91	9.5	260
132	Fe-based metallopolymer nanowall-based composites for Li-O2 battery cathode. *ACS Applied Materials & Interfaces*, **2014**, 6, 7164-70	9.5	9
131	Hierarchical MoS2 microboxes constructed by nanosheets with enhanced electrochemical properties for lithium storage and water splitting. *Energy and Environmental Science*, **2014**, 7, 3302-3306	35.4	436
130	Strategies on the Design of Nitrogen-Doped Graphene. *Journal of Physical Chemistry Letters*, **2014**, 5, 119-25	6.4	73
129	Molybdenum phosphide as an efficient electrocatalyst for the hydrogen evolution reaction. *Energy and Environmental Science*, **2014**, 7, 2624-2629	35.4	986
128	Recent progress on graphene-based hybrid electrocatalysts. *Materials Horizons*, **2014**, 1, 379-399	14.4	277
127	Sr1CaxMoO3Cd0.2Ce0.8O1.9 as the anode in solid oxide fuel cells: Effects of Mo precipitation. *Journal of Alloys and Compounds*, **2014**, 587, 326-331	5.7	14
126	Strongly coupled NiCo(2)O(4)-rGO hybrid nanosheets as a methanol-tolerant electrocatalyst for the oxygen reduction reaction. *Advanced Materials*, **2014**, 26, 2408-12	24	257
125	Novel tungsten carbide nanorods: an intrinsic peroxidase mimetic with high activity and stability in aqueous and organic solvents. *Biosensors and Bioelectronics*, **2014**, 54, 521-7	11.8	34
124	Pd Nanoparticles Supported on PDDA-Functionalized Ti4O7 as an Effective Catalyst for Formic Acid Electrooxidation. *ECS Solid State Letters*, **2014**, 3, M37-M40		3

123	Facile Synthesis of 3 D Platinum Dendrites with a Clean Surface as Highly Stable Electrocatalysts. *ChemCatChem*, **2014**, 6, 1538-1542	5.2	8
122	Facile synthesis of low crystalline MoS2 nanosheet-coated CNTs for enhanced hydrogen evolution reaction. *Nanoscale*, **2013**, 5, 7768-71	7.7	376
121	Highly concave platinum nanoframes with high-index facets and enhanced electrocatalytic properties. *Angewandte Chemie - International Edition*, **2013**, 52, 12337-40	16.4	182
120	Ultrathin MoS2 nanoplates with rich active sites as highly efficient catalyst for hydrogen evolution. *ACS Applied Materials & Interfaces*, **2013**, 5, 12794-8	9.5	347
119	A 3D mesoporous polysulfone-carbon nanotube anode for enhanced bioelectricity output in microbial fuel cells. *Chemical Communications*, **2013**, 49, 10754-6	5.8	23
118	One-step dual template synthesis of platinum on mesoporous carbon nanowires for electrocatalysts. *International Journal of Hydrogen Energy*, **2013**, 38, 2754-2759	6.7	5
117	Enhanced deep-ultraviolet upconversion emission of Gd3+ sensitized by Yb3+ and Ho3+ in NaLuF4 microcrystals under 980 nm excitation. *Journal of Materials Chemistry C*, **2013**, 1, 2485	7.1	67
116	Water-soluble polymer exfoliated graphene: as catalyst support and sensor. *Journal of Physical Chemistry B*, **2013**, 117, 5606-13	3.4	41
115	Synthesis of Mesoporous Polyaniline (PANI)-Se0.5Te0.5 Dual-Layer Film from Lyotropic Liquid Crystalline Template. *Industrial & Engineering Chemistry Research*, **2013**, 52, 5072-5078	3.9	4
114	Pd catalyst supported on a chitosan-functionalized large-area 3D reduced graphene oxide for formic acid electrooxidation reaction. *Journal of Materials Chemistry A*, **2013**, 1, 6839	13	44
113	Nano-tungsten carbide decorated graphene as co-catalysts for enhanced hydrogen evolution on molybdenum disulfide. *Chemical Communications*, **2013**, 49, 4884-6	5.8	153
112	General formation of complex tubular nanostructures of metal oxides for the oxygen reduction reaction and lithium-ion batteries. *Angewandte Chemie - International Edition*, **2013**, 52, 8643-7	16.4	179
111	Mesoporous ITO/NiO with a core/shell structure for supercapacitors. *Nano Energy*, **2013**, 2, 1303-1313	17.1	35
110	Ultrathin and ultralong single-crystal platinum nanowire assemblies with highly stable electrocatalytic activity. *Journal of the American Chemical Society*, **2013**, 135, 9480-5	16.4	377
109	Nanoporous platinum grown on nickel foam by facile plasma reduction with enhanced electro-catalytic performance. *Electrochemistry Communications*, **2012**, 18, 33-36	5.1	9
108	Increasing intracellular releasable electrons dramatically enhances bioelectricity output in microbial fuel cells. *Electrochemistry Communications*, **2012**, 19, 13-16	5.1	47
107	Dual-template synthesis of Co(OH)2 with mesoporous nanowire structure and its application in supercapacitor. *Journal of Power Sources*, **2012**, 201, 382-386	8.9	149
106	One-pot synthesis of cubic PtCu3 nanocages with enhanced electrocatalytic activity for the methanol oxidation reaction. *Journal of the American Chemical Society*, **2012**, 134, 13934-7	16.4	531

105	Template-free pseudomorphic synthesis of tungsten carbide nanorods. *Small*, **2012**, 8, 3350-6	11	51
104	Nickel-complexes with a mixed-donor ligand for photocatalytic hydrogen evolution from aqueous solutions under visible light. *RSC Advances*, **2012**, 2, 8293	3.7	35
103	Hierarchically structured Pt/CNT@TiO2 nanocatalysts with ultrahigh stability for low-temperature fuel cells. *RSC Advances*, **2012**, 2, 792-796	3.7	36
102	Formation of Pt-TiO2-rGO 3-phase junctions with significantly enhanced electro-activity for methanol oxidation. *Physical Chemistry Chemical Physics*, **2012**, 14, 473-6	3.6	59
101	Fabrication of a mesoporous Co(OH)2/ITO nanowire composite electrode and its application in supercapacitors. *RSC Advances*, **2012**, 2, 10512	3.7	21
100	Excellent Durability of Substoichiometric Titanium Oxide As a Catalyst Support for Pd in Alkaline Direct Ethanol Fuel Cells. *Industrial & Engineering Chemistry Research*, **2012**, 51, 9966-9972	3.9	25
99	Effect of Pd-impregnation on performance, sulfur poisoning and tolerance of Ni/GDC anode of solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2012**, 37, 10299-10310	6.7	35
98	Methane reforming with carbon dioxide over a Ni/ZiO2SiO2 catalyst: Influence of pretreatment gas atmospheres. *International Journal of Hydrogen Energy*, **2012**, 37, 10135-10144	6.7	60
97	Electrodeposition of mesoporous bilayers of polyaniline supported Cu2O semiconductor films from Lyotropic Liquid Crystalline phase. *Chemical Engineering Science*, **2012**, 80, 452-459	4.4	6
96	Partially oxidized titanium carbonitride as a non-noble catalyst for oxygen reduction reactions. *International Journal of Hydrogen Energy*, **2012**, 37, 15135-15139	6.7	23
95	H2 and CH4 oxidation on Gd0.2Ce0.8O1.9 infiltrated SrMoO3 yttria-stabilized zirconia anode for solid oxide fuel cells. *International Journal of Hydrogen Energy*, **2012**, 37, 18349-18356	6.7	14
94	CO Adsorption Behavior on Decorated Nanoelectrocatalysts: A Combined Experimental and DFT Theoretical Calculation Study. *Journal of Physical Chemistry C*, **2012**, 116, 3851-3856	4.8	20
93	Electrodeposited Pt on three-dimensional interconnected graphene as a free-standing electrode for fuel cell application. *Journal of Materials Chemistry*, **2012**, 22, 5286		189
92	Review on Recent Progress in Nitrogen-Doped Graphene: Synthesis, Characterization, and Its Potential Applications. *ACS Catalysis*, **2012**, 2, 781-794	13.1	2727
91	Hydrothermal preparation of carbon nanosheets and their supercapacitive behavior. *Journal of Materials Chemistry*, **2012**, 22, 11458		13
90	Self-supported interconnected Pt nanoassemblies as highly stable electrocatalysts for low-temperature fuel cells. *Angewandte Chemie - International Edition*, **2012**, 51, 7213-6	16.4	202
89	Sandwich-structured TiO2Ptgraphene ternary hybrid electrocatalysts with high efficiency and stability. *Journal of Materials Chemistry*, **2012**, 22, 16499		107
88	Imparting functionality to a metal-organic framework material by controlled nanoparticle encapsulation. *Nature Chemistry*, **2012**, 4, 310-6	17.6	1549

87	CO2 reforming of dimethyl ether over Ni/Al2O3 catalyst. *Catalysis Communications*, **2012**, 17, 49-53	3.2	8
86	Ethanol electro-oxidation activity of Nb-doped-TiO2 supported PdAg catalysts in alkaline media. *Applied Catalysis B: Environmental*, **2012**, 113-114, 261-270	21.8	62
85	Promoted aerobic oxidation of benzyl alcohol on CNT supported platinum by iron oxide. *Chemical Communications*, **2011**, 47, 7473-5	5.8	58
84	High-yield synthesis of ultrathin silica-based nanosheets and their superior catalytic activity in H2O2 decomposition. *Chemical Communications*, **2011**, 47, 6135-7	5.8	19
83	Self-assembly of mixed Pt and Au nanoparticles on PDDA-functionalized graphene as effective electrocatalysts for formic acid oxidation of fuel cells. *Physical Chemistry Chemical Physics*, **2011**, 13, 6883-91	3.6	129
82	Hydrogen storage in a NiB nanoalloy-doped three-dimensional graphene material. *Energy and Environmental Science*, **2011**, 4, 195-200	35.4	90
81	Co2MnO4 spinel-palladium co-infiltrated La0.7Ca0.3Cr0.5Mn0.5O3 cathodes for intermediate temperature solid oxide fuel cells. *Journal of Alloys and Compounds*, **2011**, 509, 9708-9717	5.7	9
80	Tb promoted Pd/C catalysts for the electrooxidation of ethanol in alkaline media. *International Journal of Hydrogen Energy*, **2011**, 36, 9645-9652	6.7	36
79	A DFT Study on the Adsorption of Formic Acid and Its Oxidized Intermediates on (100) Facets of Pt, Au, Monolayer and Decorated Pt@Au Surfaces. *Catalysis Letters*, **2011**, 141, 1872-1882	2.8	22
78	Synthesis and characterization of Pd-on-Pt and Au-on-Pt bimetallic nanosheaths on multiwalled carbon nanotubes. *Journal of Nanoparticle Research*, **2011**, 13, 2973-2979	2.3	2
77	Aryl/hetero-arylethyne bridged dyes: the effect of planar bridge on the performance of dye-sensitized solar cells. *New Journal of Chemistry*, **2011**, 35, 127-136	3.6	36
76	Interface-facilitated hydrothermal synthesis of sub-micrometre graphitic carbon plates. *Journal of Materials Chemistry*, **2011**, 21, 15197		12
75	Enhanced electrochemical activity of Pt nanowire network electrocatalysts for methanol oxidation reaction of fuel cells. *Electrochimica Acta*, **2011**, 56, 1563-1569	6.7	100
74	Microwave-assisted one-pot synthesis of metal/metal oxide nanoparticles on graphene and their electrochemical applications. *Electrochimica Acta*, **2011**, 56, 3338-3344	6.7	148
73	Carbohydrate functionalized carbon nanotubes and their applications. *Chemical Society Reviews*, **2010**, 39, 2925-34	58.5	78
72	Uniform core-shell titanium phosphate nanospheres with orderly open nanopores: a highly active Brønsted acid catalyst. *Chemical Communications*, **2010**, 46, 1670-2	5.8	35
71	Reversible hydrogen storage of multi-wall carbon nanotubes doped with atomically dispersed lithium. *Journal of Materials Chemistry*, **2010**, 20, 6490		23
70	Nanoreactors for photocatalytic H2 evolution in oil-water biphase systems. *Physical Chemistry Chemical Physics*, **2010**, 12, 14449-51	3.6	3

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