Gang Wu

List of Publications by Year in Descending Order

333 papers	32,929 citations	95 h-index	175 g-index
346 ext. papers	39,318 ext. citations	12.1 avg, IF	7.84 L-index

#	Paper	IF	Citations
333	Atomically Dispersed Fe□Co Dual Metal Sites as Bifunctional Oxygen Electrocatalysts for Rechargeable and Flexible Zn□Air Batteries. *ACS Catalysis*, **2022**, 12, 1216-1227	13.1	31
332	Magnetic field assisted electrocatalytic oxygen evolution reaction of nickel-based materials. *Journal of Materials Chemistry A*, **2022**, 10, 1760-1767	13	6
331	Tuning Two-Electron Oxygen-Reduction Pathways for H O Electrosynthesis via Engineering Atomically Dispersed Single Metal Site Catalysts.. *Advanced Materials*, **2022**, e2107954	24	10
330	High-Platinum-Content Catalysts on Atomically Dispersed and Nitrogen Coordinated Single Manganese Site Carbons for Heavy-Duty Fuel Cells. *Journal of the Electrochemical Society*, **2022**, 169, 034510	3.9	1
329	High-Performance Microsized Si Anodes for Lithium-Ion Batteries: Insights into the Polymer Configuration Conversion Mechanism.. *Advanced Materials*, **2022**, e2109658	24	7
328	Effective Approaches for Designing Stable M-N /C Oxygen-Reduction Catalysts for Proton Exchange Membrane Fuel Cells.. *Advanced Materials*, **2022**, e2200595	24	4
327	A Facile Strategy to Boost the Active Sites of Fe□N□C Electrocatalyst for the Oxygen Reduction Reaction. *Journal of the Electrochemical Society*, **2022**, 169, 034506	3.9	0
326	Half-cell electrode assessments of a crossover-tolerant direct methanol fuel cell with a platinum group metal-free cathode. *Electrochimica Acta*, **2022**, 416, 140262	6.7	0
325	3D N-doped Li4Ti5O12 nanoribbon networks self-supported on Ti foils as advanced anode for high-performance flexible lithium-ion batteries. *Journal of Alloys and Compounds*, **2022**, 910, 164873	5.7	0
324	Amorphous Ni(III)-based sulfides as bifunctional water and urea oxidation anode electrocatalysts for hydrogen generation from urea-containing water. *Applied Catalysis B: Environmental*, **2022**, 312, 121389	21.8	5
323	Atomically Dispersed Dual-Metal Site Catalysts for Enhanced CO2 Reduction: Mechanistic Insight into Active Site Structures.. *Angewandte Chemie - International Edition*, **2022**,	16.4	6
322	Atomically Dispersed Zinc(I) Active Sites to Accelerate Nitrogen Reduction Kinetics for Ammonia Electrosynthesis. *Advanced Materials*, **2021**, e2103548	24	19
321	Atomic Structure Evolution of Pt-Co Binary Catalysts: Single Metal Sites versus Intermetallic Nanocrystals. *Advanced Materials*, **2021**, 33, e2106371	24	14
320	Elucidation of Performance Recovery for Fe-Based Catalyst Cathodes in Fuel Cells. *Advanced Energy and Sustainability Research*, **2021**, 2, 2100123	1.6	0
319	Dynamically Unveiling Metal-Nitrogen Coordination during Thermal Activation to Design High-Efficient Atomically Dispersed CoN Active Sites. *Angewandte Chemie - International Edition*, **2021**, 60, 9516-9526	16.4	44
318	Dynamically Unveiling Metal□Nitrogen Coordination during Thermal Activation to Design High-Efficient Atomically Dispersed CoN4 Active Sites. *Angewandte Chemie*, **2021**, 133, 9602-9612	3.6	3
317	Promoting Atomically Dispersed MnN Sites Sulfur Doping for Oxygen Reduction: Unveiling Intrinsic Activity and Degradation in Fuel Cells. *ACS Nano*, **2021**, 15, 6886-6899	16.7	30

316	Single Atomic Iron Site Catalysts via Benign Aqueous Synthesis for Durability Improvement in Proton Exchange Membrane Fuel Cells. *Journal of the Electrochemical Society*, **2021**, 168, 044501	3.9	5
315	Carbon-Supported Single-Atom Catalysts: Carbon-Supported Single Metal Site Catalysts for Electrochemical CO2 Reduction to CO and Beyond (Small 16/2021). *Small*, **2021**, 17, 2170073	11	4
314	Chemical Vapor Deposition for N/S-Doped Single Fe Site Catalysts for the Oxygen Reduction in Direct Methanol Fuel Cells. *ACS Catalysis*, **2021**, 11, 7450-7459	13.1	37
313	Advanced Nanocarbons for Enhanced Performance and Durability of Platinum Catalysts in Proton Exchange Membrane Fuel Cells. *Small*, **2021**, 17, e2006805	11	13
312	Engineering local coordination environment of atomically dispersed platinum catalyst via lattice distortion of support for efficient hydrogen evolution reaction. *Materials Today Energy*, **2021**, 20, 100653	7	9
311	Investigation on micromechanism involved in ferrite hardening after prestraining of dual-phase steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 800, 140387	5.3	6
310	Advanced Electrocatalysis for Energy and Environmental Sustainability via Water and Nitrogen Reactions. *Advanced Materials*, **2021**, 33, e2000381	24	108
309	Engineering Atomically Dispersed FeN4 Active Sites for CO2 Electroreduction. *Angewandte Chemie*, **2021**, 133, 1035-1045	3.6	13
308	Engineering Atomically Dispersed FeN Active Sites for CO Electroreduction. *Angewandte Chemie - International Edition*, **2021**, 60, 1022-1032	16.4	66
307	Dynamic Activation of Adsorbed Intermediates via Axial Traction for the Promoted Electrochemical CO Reduction. *Angewandte Chemie - International Edition*, **2021**, 60, 4192-4198	16.4	75
306	Elucidation of the Synergistic Effect of Dopants and Vacancies on Promoted Selectivity for CO Electroreduction to Formate. *Advanced Materials*, **2021**, 33, e2005113	24	41
305	Unravelling the Molecular Origin of Organic Semiconductors with High-Performance Thermoelectric Response. *Advanced Functional Materials*, **2021**, 31, 2007438	15.6	6
304	Molecular single iron site catalysts for electrochemical nitrogen fixation under ambient conditions. *Applied Catalysis B: Environmental*, **2021**, 285, 119794	21.8	24
303	Dynamic Activation of Adsorbed Intermediates via Axial Traction for the Promoted Electrochemical CO2 Reduction. *Angewandte Chemie*, **2021**, 133, 4238-4244	3.6	10
302	Boosting Pd-catalysis for electrochemical CO2 reduction to CO on Bi-Pd single atom alloy nanodendrites. *Applied Catalysis B: Environmental*, **2021**, 289, 119783	21.8	26
301	Investigation on micromechanism of ferrite hardening after pre-straining with different strain rates of dual-phase steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 802, 140657	5.3	6
300	Atomically dispersed single iron sites for promoting Pt and Pt3Co fuel cell catalysts: performance and durability improvements. *Energy and Environmental Science*, **2021**, 14, 4948-4960	35.4	42
299	Engineering the atomic arrangement of bimetallic catalysts for electrochemical CO reduction. *Chemical Communications*, **2021**, 57, 1839-1854	5.8	10

298	Electrocatalysis: Advanced Electrocatalysis for Energy and Environmental Sustainability via Water and Nitrogen Reactions (Adv. Mater. 6/2021). *Advanced Materials*, **2021**, 33, 2170042	24	0
297	Enhanced performance of atomically dispersed dual-site Fe-Mn electrocatalysts through cascade reaction mechanism. *Applied Catalysis B: Environmental*, **2021**, 288, 120021	21.8	30
296	Hierarchical Cross-Linked Carbon Aerogels with Transition Metal-Nitrogen Sites for Highly Efficient Industrial-Level CO2 Electroreduction. *Advanced Functional Materials*, **2021**, 31, 2104377	15.6	20
295	Improving the Stability of Non-Noble-Metal M-N-C Catalysts for Proton-Exchange-Membrane Fuel Cells through M-N Bond Length and Coordination Regulation. *Advanced Materials*, **2021**, 33, e2006613	24	19
294	An integrated bioelectrochemical system coupled CO2 electroreduction device based on atomically dispersed iron electrocatalysts. *Nano Energy*, **2021**, 87, 106187	17.1	7
293	Non-planar platinum group metal-free fuel cell cathodes for enhanced oxygen transport and water rejection. *Journal of Power Sources*, **2021**, 506, 230188	8.9	2
292	High-Performance Binary Mo□Ni Catalysts for Efficient Carbon Removal during Carbon Dioxide Reforming of Methane. *ACS Catalysis*, **2021**, 11, 12087-12095	13.1	8
291	Effects of Ink Formulation on the Structure and Performance of PGM-Free Catalyst Layer in PEMFCs. *ECS Transactions*, **2021**, 104, 327-333	1	0
290	Free-standing and ionomer-free 3D platinum nanotrough fiber network electrode for proton exchange membrane fuel cells. *Applied Catalysis B: Environmental*, **2021**, 298, 120504	21.8	6
289	Electrocatalytic H2O2 generation for disinfection. *Chinese Journal of Catalysis*, **2021**, 42, 2149-2163	11.3	7
288	High-performance ammonia oxidation catalysts for anion-exchange membrane direct ammonia fuel cells. *Energy and Environmental Science*, **2021**, 14, 1449-1460	35.4	28
287	Carbon-Supported Single Metal Site Catalysts for Electrochemical CO Reduction to CO and Beyond. *Small*, **2021**, 17, e2005148	11	35
286	Performance enhancement and degradation mechanism identification of a single-atom Co□N□C catalyst for proton exchange membrane fuel cells. *Nature Catalysis*, **2020**, 3, 1044-1054	36.5	186
285	Understanding the Essential Role of PbI2 Films in a High-Performance Lead Halide Perovskite Photodetector. *Journal of Physical Chemistry C*, **2020**, 124, 15107-15114	3.8	4
284	Single-Atom catalysts: Engineering Local Coordination Environments of Atomically Dispersed and Heteroatom-Coordinated Single Metal Site Electrocatalysts for Clean Energy-Conversion (Adv. Energy Mater. 11/2020). *Advanced Energy Materials*, **2020**, 10, 2070051	21.8	3
283	Mechanistic understanding of the role separators playing in advanced lithium-sulfur batteries. *Informa□□Materi□y*, **2020**, 2, 483-508	23.1	121
282	Uniaxial negative thermal expansion and band renormalization in monolayer Td□MoTe2 at low temperature. *Physical Review B*, **2020**, 101,	3.3	7
281	Supported and coordinated single metal site electrocatalysts. *Materials Today*, **2020**, 37, 93-111	21.8	42

280	N- & S-co-doped carbon nanofiber network embedded with ultrafine NiCo nanoalloy for efficient oxygen electrocatalysis and Zn-air batteries. *Nanoscale*, **2020**, 12, 9581-9589	7.7	22
279	Ternary PtIrNi Catalysts for Efficient Electrochemical Ammonia Oxidation. *ACS Catalysis*, **2020**, 10, 3945-3957	13.1	44
278	Understanding water management in platinum group metal-free electrodes using neutron imaging. *Journal of Power Sources*, **2020**, 472, 228442-228442	8.9	6
277	Zinc-Mediated Template Synthesis of Fe-N-C Electrocatalysts with Densely Accessible Fe-N Active Sites for Efficient Oxygen Reduction. *Advanced Materials*, **2020**, 32, e1907399	24	183
276	Pt alloy oxygen-reduction electrocatalysts: Synthesis, structure, and property. *Chinese Journal of Catalysis*, **2020**, 41, 739-755	11.3	50
275	Atomically Dispersed Single Ni Site Catalysts for Nitrogen Reduction toward Electrochemical Ammonia Synthesis Using N2 and H2O. *Small Methods*, **2020**, 4, 1900821	12.8	88
274	Atomically dispersed metal-nitrogen-carbon catalysts for fuel cells: advances in catalyst design, electrode performance, and durability improvement. *Chemical Society Reviews*, **2020**, 49, 3484-3524	58.5	230
273	Effect of Ammonia on the Electrocatalysis of Oxygen Reduction Reaction in Base. *Journal of the Electrochemical Society*, **2020**, 167, 164510	3.9	2
272	Synthetic routes of the reduced graphene oxide. *Chemical Papers*, **2020**, 74, 3767-3783	1.9	22
271	Methanol tolerance of atomically dispersed single metal site catalysts: mechanistic understanding and high-performance direct methanol fuel cells. *Energy and Environmental Science*, **2020**, 13, 3544-3555	35.4	66
270	Platinum-group-metal catalysts for proton exchange membrane fuel cells: From catalyst design to electrode structure optimization. *EnergyChem*, **2020**, 2, 100023	36.9	84
269	Energy- and cost-efficient NaCl-assisted synthesis of MAX-phase Ti3AlC2 at lower temperature. *Ceramics International*, **2020**, 46, 6934-6939	5.1	21
268	Electrochemical ammonia synthesis through N2 and H2O under ambient conditions: Theory, practices, and challenges for catalysts and electrolytes. *Nano Energy*, **2020**, 69, 104469	17.1	71
267	Current progress of Pt and Pt-based electrocatalysts used for fuel cells. *Sustainable Energy and Fuels*, **2020**, 4, 15-30	5.8	214
266	High Power Density Platinum Group Metal-free Cathodes for Polymer Electrolyte Fuel Cells. *ACS Applied Materials & Interfaces*, **2020**, 12, 2216-2224	9.5	61
265	Engineering Local Coordination Environments of Atomically Dispersed and Heteroatom-Coordinated Single Metal Site Electrocatalysts for Clean Energy-Conversion. *Advanced Energy Materials*, **2020**, 10, 1902844	21.8	147
264	Boosting CO2 reduction on Fe-N-C with sulfur incorporation: Synergistic electronic and structural engineering. *Nano Energy*, **2020**, 68, 104384	17.1	60
263	Restoring the Nitrogen Cycle by Electrochemical Reduction of Nitrate: Progress and Prospects. *Small Methods*, **2020**, 4, 2000672	12.8	62

262	Single Cobalt Sites Dispersed in Hierarchically Porous Nanofiber Networks for Durable and High-Power PGM-Free Cathodes in Fuel Cells. *Advanced Materials*, **2020**, 32, e2003577	24	132
261	Strain Effects on the n-Type Thermoelectric Performance of the Small-Molecule Organic Semiconductor 2-5-Difluoro-7,7,8,8-Tetracyanoquinodimethane. *ACS Applied Energy Materials*, **2020**, 3, 10174-10182	6.1	2
260	Porous Fe-Doped Ni(OH) Nanopyramid Array Electrodes for Water Splitting. *ACS Applied Materials & Interfaces*, **2020**, 12, 36208-36219	9.5	22
259	Rational design of MXene@TiO nanoarray enabling dual lithium polysulfide chemisorption towards high-performance lithium-sulfur batteries. *Nanoscale*, **2020**, 12, 16678-16684	7.7	33
258	High performance photocatalytic and thermoelectric two-dimensional asymmetrically ordered Janus-like MXene alloys. *Materials Advances*, **2020**, 1, 1176-1185	3.3	2
257	Mechanically Robust Fish-Scale Microstructured TiO2-Coated Stainless Steel Mesh by Atomic Layer Deposition for Oil Water Separation. *Industrial & Engineering Chemistry Research*, **2020**, 59, 21088-21096	3.9	5
256	Conductive Porous Laminated Vanadium Nitride as Carbon-Free Hosts for High-Loading Sulfur Cathodes in Lithium-Sulfur Batteries. *ACS Nano*, **2020**,	16.7	29
255	Keep Cool: Polyhedral Polymer Coatings for Daytime Radiative Cooling. *Industrial & Engineering Chemistry Research*, **2020**, 59, 15226-15232	3.9	11
254	Designing 3d dual transition metal electrocatalysts for oxygen evolution reaction in alkaline electrolyte: Beyond oxides. *Nano Energy*, **2020**, 77, 105162	17.1	58
253	Defect-Rich Copper-doped Ruthenium Hollow Nanoparticles for Efficient Hydrogen Evolution Electrocatalysis in Alkaline Electrolyte. *Chemistry - an Asian Journal*, **2020**, 15, 2868-2872	4.5	2
252	Single-Iron Site Catalysts with Self-Assembled Dual-size Architecture and Hierarchical Porosity for Proton-Exchange Membrane Fuel Cells. *Applied Catalysis B: Environmental*, **2020**, 279, 119400	21.8	51
251	Advanced Electrocatalysts with Single-Metal-Atom Active Sites. *Chemical Reviews*, **2020**, 120, 12217-12314	68.1	235
250	Enhanced Li-ion battery performance of TiO2 nanoparticle-loaded Li4Ti5O12 nanosheet anode using carbon coated copper as current collector. *Journal of Power Sources*, **2020**, 479, 229090	8.9	18
249	Advanced Sulfonated Poly(Ether Ether Ketone)/Graphene-Oxide/Titanium Dioxide Nanoparticle Composited Membrane with Superior Cyclability for Vanadium Redox Flow Battery. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 4714-4721	1.3	28
248	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. *Angewandte Chemie*, **2020**, 132, 21882-21889	3.6	6
247	Atomically Dispersed MnN4 Catalysts via Environmentally Benign Aqueous Synthesis for Oxygen Reduction: Mechanistic Understanding of Activity and Stability Improvements. *ACS Catalysis*, **2020**, 10, 10523-10534	13.1	61
246	Hollow C@TiO2 array nanospheres as efficient sulfur hosts for lithium sulfur batteries. *Sustainable Energy and Fuels*, **2020**, 4, 5493-5497	5.8	2
245	MoS2 Nanosheet Carbon Foam Composites for Solar Steam Generation. *ACS Applied Nano Materials*, **2020**, 3, 9706-9714	5.6	15

244	Chemical Vapor Deposition for Atomically Dispersed and Nitrogen Coordinated Single Metal Site Catalysts. *Angewandte Chemie - International Edition*, **2020**, 59, 21698-21705	16.4	55
243	The opposite and amplifying effect of B <- N coordination on photophysical properties of regioisomers with an unsymmetrical backbone. *Chemical Science*, **2019**, 10, 1724-1734	9.4	16
242	Iron-Free Cathode Catalysts for Proton-Exchange-Membrane Fuel Cells: Cobalt Catalysts and the Peroxide Mitigation Approach. *Advanced Materials*, **2019**, 31, e1805126	24	139
241	Highly active atomically dispersed CoN4 fuel cell cathode catalysts derived from surfactant-assisted MOFs: carbon-shell confinement strategy. *Energy and Environmental Science*, **2019**, 12, 250-260	35.4	475
240	A highly conductive, transparent molecular charge-transfer salt with reversible lithiation. *Chemical Communications*, **2019**, 55, 7179-7182	5.8	6
239	High-performance fuel cell cathodes exclusively containing atomically dispersed iron active sites. *Energy and Environmental Science*, **2019**, 12, 2548-2558	35.4	280
238	Atomically Dispersed Metal Catalysts for Oxygen Reduction. *ACS Energy Letters*, **2019**, 4, 1619-1633	20.1	176
237	Co3O4 Nanoparticles Anchored on Nitrogen-Doped Partially Exfoliated Multiwall Carbon Nanotubes as an Enhanced Oxygen Electrocatalyst for the Rechargeable and Flexible Solid-State Zn–Air Battery. *ACS Applied Energy Materials*, **2019**, 2, 4428-4438	6.1	33
236	Highly Dispersed Pd-CeO2 Nanoparticles Supported on N-Doped Core–Shell Structured Mesoporous Carbon for Methanol Oxidation in Alkaline Media. *ACS Catalysis*, **2019**, 9, 6362-6371	13.1	78
235	Highly active metallic nickel sites confined in N-doped carbon nanotubes toward significantly enhanced activity of CO2 electroreduction. *Carbon*, **2019**, 150, 52-59	10.4	54
234	Carbon-Rich Nonprecious Metal Single Atom Electrocatalysts for CO2 Reduction and Hydrogen Evolution. *Small Methods*, **2019**, 3, 1900210	12.8	105
233	Large-diameter and heteroatom-doped graphene nanotubes decorated with transition metals as carbon hosts for lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2019**, 7, 13389-13399	13	19
232	Atomic Arrangement Engineering of Metallic Nanocrystals for Energy-Conversion Electrocatalysis. *Joule*, **2019**, 3, 956-991	27.8	98
231	Metal-Nitrogen-Carbon Catalysts for Oxygen Reduction in PEM Fuel Cells: Self-Template Synthesis Approach to Enhancing Catalytic Activity and Stability. *Electrochemical Energy Reviews*, **2019**, 2, 231-251	29.3	86
230	A Roadmap to Low-Cost Hydrogen with Hydroxide Exchange Membrane Electrolyzers. *Advanced Materials*, **2019**, 31, e1805876	24	85
229	A high-performance Li2S/MnO2 rechargeable battery. *Materials Letters*, **2019**, 248, 157-160	3.3	8
228	Atomically Dispersed Iron Cathode Catalysts Derived from Binary Ligand-Based Zeolitic Imidazolate Frameworks with Enhanced Stability for PEM Fuel Cells. *Journal of the Electrochemical Society*, **2019**, 166, F3116-F3122	3.9	23
227	Thermodynamic Modeling of CaSO4–(NH4)2SO4–NH3–H2O Quaternary System with Asymmetric E-NRTL Model. *Industrial & Engineering Chemistry Research*, **2019**, 58, 6811-6821	3.9	1

226	Achievements, challenges and perspectives on cathode catalysts in proton exchange membrane fuel cells for transportation. *Nature Catalysis*, **2019**, 2, 578-589	36.5	429
225	Ru nanoassembly catalysts for hydrogen evolution and oxidation reactions in electrolytes at various pH values. *Applied Catalysis B: Environmental*, **2019**, 258, 117952	21.8	58
224	3D porous graphitic nanocarbon for enhancing the performance and durability of Pt catalysts: a balance between graphitization and hierarchical porosity. *Energy and Environmental Science*, **2019**, 12, 2830-2841	35.4	112
223	Wrought Mg-Al-Pb-RE alloy strips as the anodes for Mg-air batteries. *Journal of Power Sources*, **2019**, 436, 226855	8.9	40
222	Unprecedented Enhancement of Thermoelectric Power Factor Induced by Pressure in Small-Molecule Organic Semiconductors. *Advanced Materials*, **2019**, 31, e1901956	24	24
221	A Graphene-Supported Single-Atom FeN5 Catalytic Site for Efficient Electrochemical CO2 Reduction. *Angewandte Chemie*, **2019**, 131, 15013-15018	3.6	64
220	A Graphene-Supported Single-Atom FeN Catalytic Site for Efficient Electrochemical CO Reduction. *Angewandte Chemie - International Edition*, **2019**, 58, 14871-14876	16.4	215
219	Single Fe atoms anchored by short-range ordered nanographene boost oxygen reduction reaction in acidic media. *Nano Energy*, **2019**, 66, 104164	17.1	46
218	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN4 Sites for Oxygen Reduction. *Angewandte Chemie*, **2019**, 131, 19147-19156	3.6	38
217	Thermally Driven Structure and Performance Evolution of Atomically Dispersed FeN Sites for Oxygen Reduction. *Angewandte Chemie - International Edition*, **2019**, 58, 18971-18980	16.4	207
216	Nanostructured Carbon Based Heterogeneous Electrocatalysts for Oxygen Evolution Reaction in Alkaline Media. *ChemCatChem*, **2019**, 11, 5855-5874	5.2	49
215	Single Atom Electrocatalysts: Carbon-Rich Nonprecious Metal Single Atom Electrocatalysts for CO2 Reduction and Hydrogen Evolution (Small Methods 10/2019). *Small Methods*, **2019**, 3, 1970033	12.8	3
214	PGM-Free Cathode Catalysts for PEM Fuel Cells: A Mini-Review on Stability Challenges. *Advanced Materials*, **2019**, 31, e1807615	24	267
213	Atomic-level active sites of efficient imidazolate framework-derived nickel catalysts for CO2 reduction. *Journal of Materials Chemistry A*, **2019**, 7, 26231-26237	13	46
212	Emerging nanostructured carbon-based non-precious metal electrocatalysts for selective electrochemical CO2 reduction to CO. *Journal of Materials Chemistry A*, **2019**, 7, 25191-25202	13	57
211	A partial sulfidation approach that significantly enhance the activity of FeCo layered double hydroxide for oxygen evolution reaction. *International Journal of Hydrogen Energy*, **2019**, 44, 31987-31994	6.7	9
210	N-, P-, and S-doped graphene-like carbon catalysts derived from onium salts with enhanced oxygen chemisorption for Zn-air battery cathodes. *Applied Catalysis B: Environmental*, **2019**, 241, 442-451	21.8	190
209	Cation and anion Co-doping synergy to improve structural stability of Li- and Mn-rich layered cathode materials for lithium-ion batteries. *Nano Energy*, **2019**, 57, 157-165	17.1	108

208	Photocatalysis and Photoelectrocatalysis Methods of Nitrogen Reduction for Sustainable Ammonia Synthesis. *Small Methods*, **2019**, 3, 1800352	12.8	82
207	Mn- and N- doped carbon as promising catalysts for oxygen reduction reaction: Theoretical prediction and experimental validation. *Applied Catalysis B: Environmental*, **2019**, 243, 195-203	21.8	121
206	Unveiling Active Sites of CO2 Reduction on Nitrogen-Coordinated and Atomically Dispersed Iron and Cobalt Catalysts. *ACS Catalysis*, **2018**, 8, 3116-3122	13.1	304
205	Graphene Oxides Used as a New "Dual Role" Binder for Stabilizing Silicon Nanoparticles in Lithium-Ion Battery. *ACS Applied Materials & Interfaces*, **2018**, 10, 15665-15672	9.5	41
204	Efficient entrapment and catalytic conversion of lithium polysulfides on hollow metal oxide submicro-spheres as lithium-sulfur battery cathodes. *Nanoscale*, **2018**, 10, 5634-5641	7.7	53
203	Graphene Composite Catalysts for Electrochemical Energy Conversion **2018**, 203-230		1
202	Nitrogen-Coordinated Single Cobalt Atom Catalysts for Oxygen Reduction in Proton Exchange Membrane Fuel Cells. *Advanced Materials*, **2018**, 30, 1706758	24	590
201	Low-temperature ammonia decomposition catalysts for hydrogen generation. *Applied Catalysis B: Environmental*, **2018**, 226, 162-181	21.8	171
200	A confined □microreactor□ synthesis strategy to three dimensional nitrogen-doped graphene for high-performance sodium ion battery anodes. *Journal of Power Sources*, **2018**, 378, 105-111	8.9	31
199	Metal-organic framework-derived nitrogen-doped highly disordered carbon for electrochemical ammonia synthesis using N2 and H2O in alkaline electrolytes. *Nano Energy*, **2018**, 48, 217-226	17.1	309
198	A theoretical mechanistic study on electrical conductivity enhancement of DMSO treated PEDOT:PSS. *Journal of Materials Chemistry C*, **2018**, 6, 5122-5131	7.1	57
197	Nanocarbon/oxide composite catalysts for bifunctional oxygen reduction and evolution in reversible alkaline fuel cells: A mini review. *Journal of Power Sources*, **2018**, 375, 277-290	8.9	107
196	Fe?N4 Sites Embedded into Carbon Nanofiber Integrated with Electrochemically Exfoliated Graphene for Oxygen Evolution in Acidic Medium. *Advanced Energy Materials*, **2018**, 8, 1801912	21.8	149
195	Nitrogen-doped carbon coated LiNi0.6Co0.2Mn0.2O2 cathode with enhanced electrochemical performance for Li-Ion batteries. *Electrochimica Acta*, **2018**, 284, 526-533	6.7	27
194	3D porous cellular NiCoO2/graphene network as a durable bifunctional electrocatalyst for oxygen evolution and reduction reactions. *Journal of Power Sources*, **2018**, 399, 66-75	8.9	38
193	Unique Li4Ti5O12/TiO2 multilayer arrays with advanced surface lithium storage capability. *Journal of Materials Chemistry A*, **2018**, 6, 22053-22061	13	27
192	Ordered PtCo Intermetallic Nanoparticles Derived from Metal-Organic Frameworks for Oxygen Reduction. *Nano Letters*, **2018**, 18, 4163-4171	11.5	204
191	Innovation and challenges in materials design for flexible rechargeable batteries: from 1D to 3D. *Journal of Materials Chemistry A*, **2018**, 6, 735-753	13	82

190	Fe-Doped Metal-Organic Frameworks-Derived Electrocatalysts for Oxygen Reduction Reaction in Alkaline Media. *Journal of the Electrochemical Society*, **2018**, 165, F1278-F1285	3.9	10
189	Synthesis and Anisotropic Electrocatalytic Activity of Covellite Nanoplatelets with Fixed Thickness and Tunable Diameter. *ACS Applied Materials & Interfaces*, **2018**, 10, 42417-42426	9.5	8
188	Honeycomb-like Hard Carbon Derived from Pine Pollen as High-Performance Anode Material for Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 42796-42803	9.5	80
187	Review—Ammonia Oxidation Electrocatalysis for Hydrogen Generation and Fuel Cells. *Journal of the Electrochemical Society*, **2018**, 165, J3130-J3147	3.9	87
186	Carbon Nanotube-Connected Yolk–Shell Carbon Nanopolyhedras with Cobalt and Nitrogen Doping as Sulfur Immobilizers for High-Performance Lithium–Sulfur Batteries. *ACS Applied Energy Materials*, **2018**, 1, 6487-6496	6.1	22
185	Atomically dispersed manganese catalysts for oxygen reduction in proton-exchange membrane fuel cells. *Nature Catalysis*, **2018**, 1, 935-945	36.5	691
184	Oxygen Evolution: Fe?N4 Sites Embedded into Carbon Nanofiber Integrated with Electrochemically Exfoliated Graphene for Oxygen Evolution in Acidic Medium (Adv. Energy Mater. 26/2018). *Advanced Energy Materials*, **2018**, 8, 1870119	21.8	2
183	Heteroatom-Doped, Carbon-Supported Metal Catalysts for Electrochemical Energy Conversions **2018**, 675-698		
182	Pt alloy nanoparticles decorated on large-size nitrogen-doped graphene tubes for highly stable oxygen-reduction catalysts. *Nanoscale*, **2018**, 10, 17318-17326	7.7	35
181	Metal-Organic Frameworks and Their Derived Materials as Electrocatalysts and Photocatalysts for CO Reduction: Progress, Challenges, and Perspectives. *Chemistry - A European Journal*, **2018**, 24, 18137-18157	4.8	90
180	Theoretical and Experimental Studies of the Prevention Mechanism of Organic Inhibitors on Silver Anti-Tarnish. *Journal of the Electrochemical Society*, **2018**, 165, H725-H732	3.9	3
179	MnO Quantum Dots Supported on Nitrogen-Doped Partially Exfoliated Multiwall Carbon Nanotubes as Oxygen Reduction Electrocatalysts for High-Performance Zn-Air Batteries. *ACS Applied Materials & Interfaces*, **2018**, 10, 23900-23909	9.5	43
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