

Xin Wang

List of Publications by Year in descending order

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docs citations

237
times ranked

35301
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on Recent Progress in Nitrogen-Doped Graphene: Synthesis, Characterization, and Its Potential Applications. ACS Catalysis, 2012, 2, 781-794.	5.5	3,171
2	A metal-organic framework-derived bifunctional oxygen electrocatalyst. Nature Energy, 2016, 1, .	19.8	1,974
3	Imparting functionality to a metal-organic framework material by controlled nanoparticle encapsulation. Nature Chemistry, 2012, 4, 310-316.	6.6	1,857
4	A review on fundamentals for designing oxygen evolution electrocatalysts. Chemical Society Reviews, 2020, 49, 2196-2214.	18.7	1,466
5	Molybdenum phosphide as an efficient electrocatalyst for the hydrogen evolution reaction. Energy and Environmental Science, 2014, 7, 2624-2629.	15.6	1,164
6	A review on noble-metal-free bifunctional heterogeneous catalysts for overall electrochemical water splitting. Journal of Materials Chemistry A, 2016, 4, 17587-17603.	5.2	1,037
7	Chemical and structural origin of lattice oxygen oxidation in Co-Zn oxyhydroxide oxygen evolution electrocatalysts. Nature Energy, 2019, 4, 329-338.	19.8	977
8	Recent Development of Molybdenum Sulfides as Advanced Electrocatalysts for Hydrogen Evolution Reaction. ACS Catalysis, 2014, 4, 1693-1705.	5.5	769
9	Proton Exchange Membrane Fuel Cells with Carbon Nanotube Based Electrodes. Nano Letters, 2004, 4, 345-348.	4.5	728
10	A Review of Phosphide-Based Materials for Electrocatalytic Hydrogen Evolution. Advanced Energy Materials, 2015, 5, 1500985.	10.2	707
11	Design of Efficient Bifunctional Oxygen Reduction/Evolution Electrocatalyst: Recent Advances and Perspectives. Advanced Energy Materials, 2017, 7, 1700544.	10.2	593
12	One-Pot Synthesis of Cubic PtCu ₃ Nanocages with Enhanced Electrocatalytic Activity for the Methanol Oxidation Reaction. Journal of the American Chemical Society, 2012, 134, 13934-13937.	6.6	581
13	Durability investigation of carbon nanotube as catalyst support for proton exchange membrane fuel cell. Journal of Power Sources, 2006, 158, 154-159.	4.0	570
14	Selective Electrochemical H ₂ O ₂ Production through Two-Electron Oxygen Electrochemistry. Advanced Energy Materials, 2018, 8, 1801909.	10.2	498
15	Hierarchical MoS ₂ microboxes constructed by nanosheets with enhanced electrochemical properties for lithium storage and water splitting. Energy and Environmental Science, 2014, 7, 3302-3306.	15.6	471
16	Clay-Inspired MXene-Based Electrochemical Devices and Photo-Electrocatalyst: State-of-the-Art Progresses and Challenges. Advanced Materials, 2018, 30, e1704561.	11.1	431
17	Formation of Ni-Fe Mixed Diselenide Nanocages as a Superior Oxygen Evolution Electrocatalyst. Advanced Materials, 2017, 29, 1703870.	11.1	428
18	Facile synthesis of low crystalline MoS ₂ nanosheet-coated CNTs for enhanced hydrogen evolution reaction. Nanoscale, 2013, 5, 7768.	2.8	426

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19	Ultrathin and Ultralong Single-Crystal Platinum Nanowire Assemblies with Highly Stable Electrocatalytic Activity. <i>Journal of the American Chemical Society</i> , 2013, 135, 9480-9485.	6.6	425
20	Recent developments in electrode materials for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9353-9378.	5.2	413
21	One-Pot Synthesis of Pt-Co Alloy Nanowire Assemblies with Tunable Composition and Enhanced Electrocatalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 3797-3801.	7.2	407
22	Ultrathin MoS ₂ Nanoplates with Rich Active Sites as Highly Efficient Catalyst for Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 12794-12798.	4.0	392
23	A review on the electrochemical reduction of CO ₂ in fuel cells, metal electrodes and molecular catalysts. <i>Catalysis Today</i> , 2014, 233, 169-180.	2.2	392
24	In Situ Grown Epitaxial Heterojunction Exhibits High-Performance Electrocatalytic Water Splitting. <i>Advanced Materials</i> , 2018, 30, e1705516.	11.1	375
25	General Formation of M-MoS ₃ (M = Co, Ni) Hollow Structures with Enhanced Electrocatalytic Activity for Hydrogen Evolution. <i>Advanced Materials</i> , 2016, 28, 92-97.	11.1	364
26	Switching charge transfer of C ₃ N ₄ /W ₁₈ O ₄₉ from type-II to Z-scheme by interfacial band bending for highly efficient photocatalytic hydrogen evolution. <i>Nano Energy</i> , 2017, 40, 308-316.	8.2	346
27	Enlarged Co-O Covalency in Octahedral Sites Leading to Highly Efficient Spinel Oxides for Oxygen Evolution Reaction. <i>Advanced Materials</i> , 2018, 30, e1802912.	11.1	338
28	Novel Molybdenum Carbide-Tungsten Carbide Composite Nanowires and Their Electrochemical Activation for Efficient and Stable Hydrogen Evolution. <i>Advanced Functional Materials</i> , 2015, 25, 1520-1526.	7.8	325
29	Dual-Phase Spinel MnCo ₂ O ₄ and Spinel MnCo ₂ O ₄ /Nanocarbon Hybrids for Electrocatalytic Oxygen Reduction and Evolution. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12684-12691.	4.0	322
30	Efficient Electrochemical Reduction of CO ₂ to HCOOH over Sub-20 nm SnO ₂ Quantum Wires with Exposed Grain Boundaries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8499-8503.	7.2	322
31	Enhancement effect of Ag for Pd/C towards the ethanol electro-oxidation in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 507-515.	10.8	319
32	Catalysis mechanisms of CO ₂ and CO methanation. <i>Catalysis Science and Technology</i> , 2016, 6, 4048-4058.	2.1	316
33	Strategies to Break the Scaling Relation toward Enhanced Oxygen Electrocatalysis. <i>Matter</i> , 2019, 1, 1494-1518.	5.0	316
34	Recent progress on graphene-based hybrid electrocatalysts. <i>Materials Horizons</i> , 2014, 1, 379-399.	6.4	303
35	Electrocatalytic reduction of carbon dioxide: opportunities with heterogeneous molecular catalysts. <i>Energy and Environmental Science</i> , 2020, 13, 374-403.	15.6	303
36	Hexagonal-Phase Cobalt Monophosphosulfide for Highly Efficient Overall Water Splitting. <i>ACS Nano</i> , 2017, 11, 11031-11040.	7.3	297

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37	An Efficient and Earth-Abundant Oxygen-Evolving Electrocatalyst Based on Amorphous Metal Borides. <i>Advanced Energy Materials</i> , 2018, 8, 1701475.	10.2	292
38	Amino acid modified copper electrodes for the enhanced selective electroreduction of carbon dioxide towards hydrocarbons. <i>Energy and Environmental Science</i> , 2016, 9, 1687-1695.	15.6	290
39	Strongly Coupled NiCo ₂ O ₄ -rGO Hybrid Nanosheets as a Methanol-Tolerant Electrocatalyst for the Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2014, 26, 2408-2412.	11.1	283
40	Nafion/Zeolite Nanocomposite Membrane by in Situ Crystallization for a Direct Methanol Fuel Cell. <i>Chemistry of Materials</i> , 2006, 18, 5669-5675.	3.2	276
41	Molybdenum Carbide-Based Electrocatalysts for Hydrogen Evolution Reaction. <i>Chemistry - A European Journal</i> , 2017, 23, 10947-10961.	1.7	267
42	Lithium-Doped Conjugated Microporous Polymers for Reversible Hydrogen Storage. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3330-3333.	7.2	258
43	Vertically oriented MoS ₂ and WS ₂ nanosheets directly grown on carbon cloth as efficient and stable 3-dimensional hydrogen-evolving cathodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 131-135.	5.2	254
44	Bi ₂ O ₃ Nanosheets Grown on Multi-Channel Carbon Matrix to Catalyze Efficient CO ₂ Electroreduction to HCOOH. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13828-13833.	7.2	254
45	Rational Design of Transition Metal-Based Materials for Highly Efficient Electrocatalysis. <i>Small Methods</i> , 2019, 3, 1800211.	4.6	250
46	Electrocatalytic Activity and Interconnectivity of Pt Nanoparticles on Multiwalled Carbon Nanotubes for Fuel Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18935-18945.	1.5	239
47	Highly efficient submonolayer Pt-decorated Au nano-catalysts for formic acid oxidation. <i>Chemical Communications</i> , 2008, , 353-355.	2.2	230
48	Core-shell carbon materials derived from metal-organic frameworks as an efficient oxygen bifunctional electrocatalyst. <i>Nano Energy</i> , 2016, 30, 368-378.	8.2	229
49	A Flexible Electrode Based on Iron Phosphide Nanotubes for Overall Water Splitting. <i>Chemistry - A European Journal</i> , 2015, 21, 18062-18067.	1.7	228
50	Electrochemical investigation of formic acid electro-oxidation and its crossover through a Nafion® membrane. <i>Journal of Electroanalytical Chemistry</i> , 2004, 562, 73-80.	1.9	226
51	Nitrogen-doped cobalt phosphate@nanocarbon hybrids for efficient electrocatalytic oxygen reduction. <i>Energy and Environmental Science</i> , 2016, 9, 2563-2570.	15.6	216
52	Self-Supported Interconnected Pt Nanoassemblies as Highly Stable Electrocatalysts for Low-Temperature Fuel Cells. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7213-7216.	7.2	211
53	Electrodeposited Pt on three-dimensional interconnected graphene as a free-standing electrode for fuel cell application. <i>Journal of Materials Chemistry</i> , 2012, 22, 5286.	6.7	210
54	PtRu Nanoparticles Supported on 1-Aminopyrene-Functionalized Multiwalled Carbon Nanotubes and Their Electrocatalytic Activity for Methanol Oxidation. <i>Langmuir</i> , 2008, 24, 10505-10512.	1.6	205

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55	Boosting Electrochemical CO ₂ Reduction on Metal-Organic Frameworks via Ligand Doping. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4041-4045.	7.2	199
56	Carbon Nanotube Film by Filtration as Cathode Catalyst Support for Proton-Exchange Membrane Fuel Cell. <i>Langmuir</i> , 2005, 21, 9386-9389.	1.6	196
57	General Formation of Complex Tubular Nanostructures of Metal Oxides for the Oxygen Reduction Reaction and Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 8643-8647.	7.2	194
58	Highly Concave Platinum Nanoframes with High-Index Facets and Enhanced Electrocatalytic Properties. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12337-12340.	7.2	193
59	Highly Efficient Oxygen Reduction Reaction Activity of N-Doped Carbon-Cobalt Boride Heterointerfaces. <i>Advanced Energy Materials</i> , 2021, 11, 2100157.	10.2	190
60	Investigation of molybdenum carbide nano-rod as an efficient and durable electrocatalyst for hydrogen evolution in acidic and alkaline media. <i>Applied Catalysis B: Environmental</i> , 2014, 154-155, 232-237.	10.8	183
61	Ethylene Selectivity in Electrocatalytic CO ₂ Reduction on Cu Nanomaterials: A Crystal Phase-Dependent Study. <i>Journal of the American Chemical Society</i> , 2020, 142, 12760-12766.	6.6	183
62	In situ formation of molecular Ni-Fe active sites on heteroatom-doped graphene as a heterogeneous electrocatalyst toward oxygen evolution. <i>Science Advances</i> , 2018, 4, eaap7970.	4.7	176
63	Nano-tungsten carbide decorated graphene as co-catalysts for enhanced hydrogen evolution on molybdenum disulfide. <i>Chemical Communications</i> , 2013, 49, 4884.	2.2	175
64	Unsupported Platinum-Based Electrocatalysts for Oxygen Reduction Reaction. <i>ACS Energy Letters</i> , 2017, 2, 2035-2043.	8.8	174
65	Microwave-assisted one-pot synthesis of metal/metal oxide nanoparticles on graphene and their electrochemical applications. <i>Electrochimica Acta</i> , 2011, 56, 3338-3344.	2.6	170
66	Dual-template synthesis of Co(OH) ₂ with mesoporous nanowire structure and its application in supercapacitor. <i>Journal of Power Sources</i> , 2012, 201, 382-386.	4.0	169
67	Electrochemical Impedance Studies of Methanol Electro-oxidation on Pt/C Thin Film Electrode. <i>Journal of the Electrochemical Society</i> , 2002, 149, A615.	1.3	164
68	Composite Nafion/polyvinyl alcohol membranes for the direct methanol fuel cell. <i>Journal of Membrane Science</i> , 2002, 210, 147-153.	4.1	164
69	Pt ²⁺ /Ru Supported on Double-Walled Carbon Nanotubes as High-Performance Anode Catalysts for Direct Methanol Fuel Cells. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15353-15358.	1.2	163
70	Construction of Efficient 3D Gas Evolution Electrocatalyst for Hydrogen Evolution: Porous FeP Nanowire Arrays on Graphene Sheets. <i>Advanced Science</i> , 2015, 2, 1500120.	5.6	163
71	Synthesis and Characterization of Surfactant-Stabilized Pt/C Nanocatalysts for Fuel Cell Applications. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11057-11064.	1.2	161
72	Tuning of lattice oxygen reactivity and scaling relation to construct better oxygen evolution electrocatalyst. <i>Nature Communications</i> , 2021, 12, 3992.	5.8	151

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73	Ptshell Au core/C electrocatalyst with a controlled shell thickness and improved Pt utilization for fuel cell reactions. <i>Electrochemistry Communications</i> , 2008, 10, 12-15.	2.3	149
74	Self-assembly of mixed Pt and Au nanoparticles on PDDA-functionalized graphene as effective electrocatalysts for formic acid oxidation of fuel cells. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6883.	1.3	144
75	Linkage Effect in the Heterogenization of Cobalt Complexes by Doped Graphene for Electrocatalytic CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 13532-13539.	7.2	143
76	Polyelectrolyte functionalized carbon nanotubes as a support for noble metal electrocatalysts and their activity for methanol oxidation. <i>Nanotechnology</i> , 2008, 19, 265601.	1.3	138
77	Anodic Oxidation Enabled Cation Leaching for Promoting Surface Reconstruction in Water Oxidation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7418-7425.	7.2	130
78	Heterogeneous Electrocatalyst with Molecular Cobalt Ions Serving as the Center of Active Sites. <i>Journal of the American Chemical Society</i> , 2017, 139, 1878-1884.	6.6	129
79	Novel palladium-lead (Pd-Pb/C) bimetallic catalysts for electrooxidation of ethanol in alkaline media. <i>Journal of Power Sources</i> , 2010, 195, 2619-2622.	4.0	128
80	CNT-Based Electrodes with High Efficiency for PEMFCs. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, A42.	2.2	124
81	Surfactant stabilized Pt and Pt alloy electrocatalyst for polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2002, 47, 2981-2987.	2.6	122
82	Controlled synthesis of dendritic Au@Pt core-shell nanomaterials for use as an effective fuel cell electrocatalyst. <i>Nanotechnology</i> , 2009, 20, 025605.	1.3	117
83	Nano RuO ₂ -Decorated Holey Graphene Composite Fibers for Micro-Supercapacitors with Ultrahigh Energy Density. <i>Small</i> , 2018, 14, e1800582.	5.2	113
84	Sandwich-structured TiO ₂ -Pt-graphene ternary hybrid electrocatalysts with high efficiency and stability. <i>Journal of Materials Chemistry</i> , 2012, 22, 16499.	6.7	112
85	Bi ₂ O ₃ deposited on highly ordered mesoporous carbon for supercapacitors. <i>Electrochemistry Communications</i> , 2009, 11, 313-317.	2.3	111
86	Deposition of platinum nanoparticles on organic functionalized carbon nanotubes grown in situ on carbon paper for fuel cells. <i>Nanotechnology</i> , 2005, 16, S395-S400.	1.3	109
87	Controlled synthesis of Pt-decorated Au nanostructure and its promoted activity toward formic acid electro-oxidation. <i>Electrochimica Acta</i> , 2009, 54, 4916-4924.	2.6	108
88	Enhanced electrochemical activity of Pt nanowire network electrocatalysts for methanol oxidation reaction of fuel cells. <i>Electrochimica Acta</i> , 2011, 56, 1563-1569.	2.6	108
89	Hybrid catalysts for photoelectrochemical reduction of carbon dioxide: a prospective review on semiconductor/metal complex co-catalyst systems. <i>Journal of Materials Chemistry A</i> , 2014, 2, 15228.	5.2	108
90	Graphene/NiO Nanowires: Controllable One-Pot Synthesis and Enhanced Pseudocapacitive Behavior. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 8246-8256.	4.0	106

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91	A Hierarchical MoP Nanoflake Array Supported on Ni Foam: A Bifunctional Electrocatalyst for Overall Water Splitting. <i>Small Methods</i> , 2018, 2, 1700369.	4.6	106
92	The study of Pt@Au electrocatalyst based on Cu underpotential deposition and Pt redox replacement. <i>Electrochimica Acta</i> , 2009, 54, 3092-3097.	2.6	105
93	Electrocatalysis of Pd-Co supported on carbon black or ball-milled carbon nanotubes towards methanol oxidation in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2010, 99, 229-234.	10.8	104
94	Controlled deposition of Pt on Au nanorods and their catalytic activity towards formic acid oxidation. <i>Electrochemistry Communications</i> , 2008, 10, 961-964.	2.3	103
95	Hydrogen storage in a Ni-B nanoalloy-doped three-dimensional graphene material. <i>Energy and Environmental Science</i> , 2011, 4, 195-200.	15.6	99
96	Recent Methods for the Synthesis of Noble-Metal-Free Hydrogen-Evolution Electrocatalysts: From Nanoscale to Sub-nanoscale. <i>Small Methods</i> , 2017, 1, 1700118.	4.6	96
97	Molecular Sieving in a Nanoporousb-Oriented Pure-Silica-Zeolite MFI Monocrystal Film. <i>Journal of the American Chemical Society</i> , 2004, 126, 4122-4123.	6.6	95
98	Tuning the electrocatalytic activity of Pt nanoparticles on carbon nanotubes via surface functionalization. <i>Electrochemistry Communications</i> , 2010, 12, 1646-1649.	2.3	88
99	Carbohydrate functionalized carbon nanotubes and their applications. <i>Chemical Society Reviews</i> , 2010, 39, 2925.	18.7	87
100	Efficient and durable oxygen reduction and evolution of a hydrothermally synthesized La(Co _{0.55} Mn _{0.45}) _{0.99} O ₃ nanorod/graphene hybrid in alkaline media. <i>Nanoscale</i> , 2015, 7, 9046-9054.	2.8	86
101	A Water-Soluble Cu Complex as Molecular Catalyst for Electrocatalytic CO ₂ Reduction on Graphene-Based Electrodes. <i>Advanced Energy Materials</i> , 2019, 9, 1803151.	10.2	85
102	Highly Efficient and Durable Pd Hydride Nanocubes Embedded in 2D Amorphous NiB Nanosheets for Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2017, 7, 1700919.	10.2	84
103	Free-standing vertically-aligned nitrogen-doped carbon nanotube arrays/graphene as air-breathing electrodes for rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2488-2495.	5.2	83
104	Assembling pore-rich FeP nanorods on the CNT backbone as an advanced electrocatalyst for oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13005-13010.	5.2	82
105	Ultrathin Amorphous Iron-Nickel Boride Nanosheets for Highly Efficient Electrocatalytic Oxygen Production. <i>Chemistry - A European Journal</i> , 2018, 24, 18502-18511.	1.7	82
106	Isolated FeN ₄ Sites for Efficient Electrocatalytic CO ₂ Reduction. <i>Advanced Science</i> , 2020, 7, 2001545.	5.6	81
107	Pd Nanoparticles on Carbon Nitride-Graphene for the Selective Electro-Oxidation of Glycerol in Alkaline Solution. <i>ACS Catalysis</i> , 2015, 5, 3174-3180.	5.5	80
108	A Planar, Conjugated N ₄ -Macrocyclic Cobalt Complex for Heterogeneous Electrocatalytic CO ₂ Reduction with High Activity. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 17104-17109.	7.2	80

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109	Tailoring of Metal Boride Morphology via Anion for Efficient Water Oxidation. <i>Advanced Energy Materials</i> , 2019, 9, 1901503.	10.2	79
110	Strategies on the Design of Nitrogen-Doped Graphene. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 119-125.	2.1	78
111	Selective Electrochemical Reduction of CO ₂ to Ethylene on Nanopores-Modified Copper Electrodes in Aqueous Solution. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32782-32789.	4.0	75
112	Electrochemical hydrogen storage properties of ball-milled multi-wall carbon nanotubes. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 1437-1443.	3.8	73
113	Ethanol electro-oxidation activity of Nb-doped-TiO ₂ supported PdAg catalysts in alkaline media. <i>Applied Catalysis B: Environmental</i> , 2012, 113-114, 261-270.	10.8	72
114	Enhanced deep-ultraviolet upconversion emission of Gd ³⁺ sensitized by Yb ³⁺ and Ho ³⁺ in ² -NaLuF ₄ microcrystals under 980 nm excitation. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2485.	2.7	72
115	Polyelectrolyte mediated formation of hydroxyapatite microspheres of controlled size and hierarchical structure. <i>Journal of Colloid and Interface Science</i> , 2009, 339, 69-77.	5.0	70
116	Formation of Pt@TiO ₂ @rGO 3-phase junctions with significantly enhanced electro-activity for methanol oxidation. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 473-476.	1.3	67
117	Facile Synthesis of Amorphous Ternary Metal Borides@Reduced Graphene Oxide Hybrid with Superior Oxygen Evolution Activity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 846-855.	4.0	67
118	Methane reforming with carbon dioxide over a Ni/ZrO ₂ @SiO ₂ catalyst: Influence of pretreatment gas atmospheres. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10135-10144.	3.8	66
119	Boosting Electrochemical CO ₂ Reduction on Metal@Organic Frameworks via Ligand Doping. <i>Angewandte Chemie</i> , 2019, 131, 4081-4085.	1.6	66
120	Rational Design of Metal@Organic Frameworks towards Efficient Electrocatalysis. , 2020, 2, 1251-1267.		65
121	Promoted aerobic oxidation of benzyl alcohol on CNT supported platinum by iron oxide. <i>Chemical Communications</i> , 2011, 47, 7473.	2.2	64
122	Axial Modification of Cobalt Complexes on Heterogeneous Surface with Enhanced Electron Transfer for Carbon Dioxide Reduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19162-19167.	7.2	64
123	Synthesis of N@Doped Highly Graphitic Carbon Urchin@Like Hollow Structures Loaded with Single@Ni Atoms towards Efficient CO ₂ Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	64
124	Electrochemical characterization of binary carbon supported electrode in polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2001, 96, 282-287.	4.0	63
125	Increasing intracellular releasable electrons dramatically enhances bioelectricity output in microbial fuel cells. <i>Electrochemistry Communications</i> , 2012, 19, 13-16.	2.3	60
126	Synthesis of coin-like hollow carbon and performance as Pd catalyst support for methanol electrooxidation. <i>Electrochemistry Communications</i> , 2007, 9, 2473-2478.	2.3	58

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127	3D ordered porous Mo _x C (x = 1 or 2) for advanced hydrogen evolution and Li storage. <i>Nanoscale</i> , 2017, 9, 7260-7267.	2.8	58
128	Highly active Pd and Pd@Au nanoparticles supported on functionalized graphene nanoplatelets for enhanced formic acid oxidation. <i>RSC Advances</i> , 2014, 4, 4028-4033.	1.7	57
129	An Earth-Abundant Tungsten@Nickel Alloy Electrocatalyst for Superior Hydrogen Evolution. <i>ACS Applied Nano Materials</i> , 2018, 1, 1228-1235.	2.4	57
130	Template-Free Pseudomorphic Synthesis of Tungsten Carbide Nanorods. <i>Small</i> , 2012, 8, 3350-3356.	5.2	56
131	Nanocomposite fuel cell membranes based on Nafion and acid functionalized zeolite beta nanocrystals. <i>Journal of Membrane Science</i> , 2008, 320, 86-92.	4.1	55
132	Anchoring metal nanoparticles on hydrofluoric acid treated multiwalled carbon nanotubes as stable electrocatalysts. <i>Electrochemistry Communications</i> , 2008, 10, 1101-1104.	2.3	55
133	Model interpretation of electrochemical impedance spectroscopy and polarization behavior of H ₂ /CO mixture oxidation in polymer electrolyte fuel cells. <i>Electrochimica Acta</i> , 2001, 46, 4397-4405.	2.6	52
134	Multifunctional composite membrane based on a highly porous polyimide matrix for direct methanol fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 1024-1030.	4.0	52
135	Lithiation/Delithiation Synthesis of Few Layer Silicene Nanosheets for Rechargeable Li ₂ O Batteries. <i>Advanced Materials</i> , 2018, 30, e1705523.	11.1	51
136	Synthesis and characterization of Cocore@Ptshell electrocatalyst prepared by spontaneous replacement reaction for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2010, 56, 1000-1007.	2.6	50
137	Optimizing interfacial electronic coupling with metal oxide to activate inert polyaniline for superior electrocatalytic hydrogen generation. , 2019, 1, 77-84.		50
138	Shape-controlled synthesis of octahedral Ln-NaYF_4 and its rare earth doped submicrometer particles in acetic acid. <i>Nano Research</i> , 2009, 2, 565-574.	5.8	49
139	Selective synthesis of hexagonal Ag nanoplates in a solution-phase chemical reduction process. <i>Nano Research</i> , 2010, 3, 843-851.	5.8	48
140	Structural tuning of heterogeneous molecular catalysts for electrochemical energy conversion. <i>Science Advances</i> , 2021, 7, .	4.7	48
141	Pd catalyst supported on a chitosan-functionalized large-area 3D reduced graphene oxide for formic acid electrooxidation reaction. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6839.	5.2	47
142	One-Pot Synthesis of Platinum Nanocubes on Reduced Graphene Oxide with Enhanced Electrocatalytic Activity. <i>Small</i> , 2014, 10, 2336-2339.	5.2	47
143	Bi ₂ O ₃ Nanosheets Grown on Multi-Channel Carbon Matrix to Catalyze Efficient CO ₂ Electroreduction to HCOOH. <i>Angewandte Chemie</i> , 2019, 131, 13966-13971.	1.6	45
144	Assessment of CO-tolerance for different Pt-alloy anode catalysts in a polymer electrolyte fuel cell using ac impedance spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2002, 528, 145-152.	1.9	44

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145	Controllable self-assembly of Pd nanowire networks as highly active electrocatalysts for direct formic acid fuel cells. <i>Nanotechnology</i> , 2008, 19, 455602.	1.3	44
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