Shao-Wei Chen

List of Publications by Year
in descending order

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423 papers	27,767 citations	4136 87 h-index	8384 147 g-index
434 all docs	434 docs citations	434 times ranked	28102 citing authors

#	Article	IF	Citations
1	Nanosized Carbon Particles From Natural Gas Soot. Chemistry of Materials, 2009, 21, 2803-2809.	3.2	643
2	Mesoporous N-Doped Carbons Prepared with Thermally Removable Nanoparticle Templates: An Efficient Electrocatalyst for Oxygen Reduction Reaction. Journal of the American Chemical Society, 2015, 137, 5555-5562.	6.6	628
3	Recent developments of carbon-based electrocatalysts for hydrogen evolution reaction. Nano Energy, 2016, 28, 29-43.	8.2	603
4	Advanced Electrocatalysts with Single-Metal-Atom Active Sites. Chemical Reviews, 2020, 120, 12217-12314.	23.0	563
5	Carbonâ€Supported Single Atom Catalysts for Electrochemical Energy Conversion and Storage. Advanced Materials, 2018, 30, e1801995.	11.1	479
6	Oxygen Electroreduction Catalyzed by Gold Nanoclusters: Strong Core Size Effects. Angewandte Chemie - International Edition, 2009, 48, 4386-4389.	7.2	476
7	Ruthenium atomically dispersed in carbon outperforms platinum toward hydrogen evolution in alkaline media. Nature Communications, 2019, 10, 631.	5.8	423
8	One-Pot Synthesis, Photoluminescence, and Electrocatalytic Properties of Subnanometer-Sized Copper Clusters. Journal of the American Chemical Society, 2011, 133, 2060-2063.	6.6	422
9	Water-Soluble, Isolable Gold Clusters Protected by Tiopronin and Coenzyme A Monolayers. Langmuir, 1999, 15, 66-76.	1.6	395
10	Ultrahighâ€Performance Pseudocapacitor Electrodes Based on Transition Metal Phosphide Nanosheets Array via Phosphorization: A General and Effective Approach. Advanced Functional Materials, 2015, 25, 7530-7538.	7.8	359
11	Ultrathin N-Doped Mo₂C Nanosheets with Exposed Active Sites as Efficient Electrocatalyst for Hydrogen Evolution Reactions. ACS Nano, 2017, 11, 12509-12518.	7.3	350
12	Removal of As(III) and As(V) from aqueous solutions using nanoscale zero valent iron-reduced graphite oxide modified composites. Journal of Hazardous Materials, 2014, 268, 124-131.	6.5	339
13	N-Doped Carbon-Wrapped Cobalt Nanoparticles on N-Doped Graphene Nanosheets for High-Efficiency Hydrogen Production. Chemistry of Materials, 2015, 27, 2026-2032.	3.2	305
14	CoSe2 nanoparticles embedded defective carbon nanotubes derived from MOFs as efficient electrocatalyst for hydrogen evolution reaction. Nano Energy, 2016, 28, 143-150.	8.2	278
15	Gateway Reactions to Diverse, Polyfunctional Monolayer-Protected Gold Clusters. Journal of the American Chemical Society, 1998, 120, 4845-4849.	6.6	277
16	Electrocatalysis of Single-Atom Sites: Impacts of Atomic Coordination. ACS Catalysis, 2020, 10, 7584-7618.	5.5	274
17	Biomass-derived nitrogen self-doped porous carbon as effective metal-free catalysts for oxygen reduction reaction. Nanoscale, 2015, 7, 6136-6142.	2.8	269
18	Porous metallic MoO₂-supported MoS₂ nanosheets for enhanced electrocatalytic activity in the hydrogen evolution reaction. Nanoscale, 2015, 7, 5203-5208.	2.8	267

#	Article	IF	Citations
19	Hierarchical spheres constructed by defect-rich MoS 2 /carbon nanosheets for efficient electrocatalytic hydrogen evolution. Nano Energy, 2016, 22, 490-498.	8.2	267
20	Golden single-atomic-site platinum electrocatalysts. Nature Materials, 2018, 17, 1033-1039.	13.3	266
21	High power density microbial fuel cell with flexible 3D grapheneâ€“nickel foam as anode. Nanoscale, 2013, 5, 10283.	2.8	265
22	Enhanced Photocatalytic Performances of CeO₂/TiO₂ Nanobelt Heterostructures. Small, 2013, 9, 3864-3872.	5.2	262
23	MoO2 nanobelts@nitrogen self-doped MoS2 nanosheets as effective electrocatalysts for hydrogen evolution reaction. Journal of Materials Chemistry A, 2014, 2, 11358.	5.2	262
24	Visible-Light-Driven Nitrogen Fixation Catalyzed by Bi₅O₇Br Nanostructures: Enhanced Performance by Oxygen Vacancies. Journal of the American Chemical Society, 2020, 142, 12430-12439.	6.6	260
25	Quantized Capacitance Charging of Monolayer-Protected Au Clusters. Journal of Physical Chemistry B, 1998, 102, 9898-9907.	1.2	258
26	Silica-Coated CdTe Quantum Dots Functionalized with Thiols for Bioconjugation to IgG Proteins. Journal of Physical Chemistry B, 2006, 110, 5779-5789.	1.2	258
27	Composition Effects of FePt Alloy Nanoparticles on the Electro-Oxidation of Formic Acid. Langmuir, 2007, 23, 11303-11310.	1.6	243
28	Pt nanoparticles/MoS2 nanosheets/carbon fibers as efficient catalyst for the hydrogen evolution reaction. Electrochimica Acta, 2015, 166, 26-31.	2.6	242
29	Three-Dimensional Hierarchical Frameworks Based on MoS₂ Nanosheets Self-Assembled on Graphene Oxide for Efficient Electrocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2014, 6, 21534-21540.	4.0	235
30	Electrochemical Quantized Capacitance Charging of Surface Ensembles of Gold Nanoparticles. Journal of Physical Chemistry B, 1999, 103, 9996-10000.	1.2	234
31	The Monolayer Thickness Dependence of Quantized Double-Layer Capacitances of Monolayer-Protected Gold Clusters. Analytical Chemistry, 1999, 71, 3703-3711.	3.2	224
32	CoSe₂ Nanoparticles Encapsulated by Nâ€Doped Carbon Framework Intertwined with Carbon Nanotubes: Highâ€Performance Dualâ€Role Anode Materials for Both Liâ€•and Naâ€Ion Batteries. Advanced Science, 2018, 5, 1800763.	5.6	215
33	Alkanethiolate-Protected Copper Nanoparticles:â€‰ Spectroscopy, Electrochemistry, and Solid-State Morphological Evolution. Journal of Physical Chemistry B, 2001, 105, 8816-8820.	1.2	214
34	Electrocatalytic Reduction of Oxygen by FePt Alloy Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 3891-3898.	1.5	211
35	Carbon-supported PdM (M=Au and Sn) nanocatalysts for the electrooxidation of ethanol in high pH media. Journal of Power Sources, 2009, 187, 298-304.	4.0	201
36	Nitrogen-Doped and CdSe Quantum-Dot-Sensitized Nanocrystalline TiO₂ Films for Solar Energy Conversion Applications. Journal of Physical Chemistry C, 2008, 112, 1282-1292.	1.5	192

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37	Ultrathin MoO 3 nanocrystalsself-assembled on graphene nanosheets via oxygen bonding as supercapacitor electrodes of high capacitance and long cycle life. Nano Energy, 2015, 12, 510-520.	8.2	192
38	Enhancement of Ethanol Vapor Sensing of TiO₂ Nanobelts by Surface Engineering. ACS Applied Materials & Interfaces, 2010, 2, 3263-3269.	4.0	188
39	Graphitic Nitrogen Is Responsible for Oxygen Electroreduction on Nitrogen-Doped Carbons in Alkaline Electrolytes: Insights from Activity Attenuation Studies and Theoretical Calculations. ACS Catalysis, 2018, 8, 6827-6836.	5.5	188
40	Oxygen Reduction Catalyzed by Platinum Nanoparticles Supported on Graphene Quantum Dots. ACS Catalysis, 2013, 3, 831-838.	5.5	185
41	MoS₂ nanosheet-coated CoS₂ nanowire arrays on carbon cloth as three-dimensional electrodes for efficient electrocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2015, 3, 22886-22891.	5.2	185
42	Surface Manipulation of the Electronic Energy of Subnanometer-Sized Gold Clusters:â€‰ An Electrochemical and Spectroscopic Investigation. Nano Letters, 2003, 3, 75-79.	4.5	175
43	Arenethiolate Monolayer-Protected Gold Clusters. Langmuir, 1999, 15, 682-689.	1.6	169
44	Alkanethiolate-Protected Palladium Nanoparticles. Chemistry of Materials, 2000, 12, 540-547.	3.2	165
45	Sulfur and nitrogen self-doped carbon nanosheets derived from peanut root nodules as high-efficiency non-metal electrocatalyst for hydrogen evolution reaction. Nano Energy, 2015, 16, 357-366.	8.2	162
46	Coreâ€“Shell Nanocomposites Based on Gold Nanoparticle@Zincâ€“Iron-Embedded Porous Carbons Derived from Metalâ€“Organic Frameworks as Efficient Dual Catalysts for Oxygen Reduction and Hydrogen Evolution Reactions. ACS Catalysis, 2016, 6, 1045-1053.	5.5	151
47	Recent progress in electrode fabrication for electrocatalytic hydrogen evolution reaction: A mini review. Chemical Engineering Journal, 2020, 393, 124726.	6.6	150
48	Nanocomposites Based on CoSe₂-Decorated FeSe₂ Nanoparticles Supported on Reduced Graphene Oxide as High-Performance Electrocatalysts toward Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2018, 10, 19258-19270.	4.0	147
49	Antibacterial mechanisms of graphene-based composite nanomaterials. Nanoscale, 2017, 9, 994-1006.	2.8	143
50	Electro-oxidation of formic acid catalyzed by FePt nanoparticles. Physical Chemistry Chemical Physics, 2006, 8, 2779.	1.3	142
51	Alkanethiolate-Protected PbS Nanoclusters:Â Synthesis, Spectroscopic and Electrochemical Studies. Chemistry of Materials, 2000, 12, 3864-3870.	3.2	139
52	Hydrogen evolution reaction catalyzed by ruthenium ion-complexed graphitic carbon nitride nanosheets. Journal of Materials Chemistry A, 2017, 5, 18261-18269.	5.2	136
53	Precise Positioning of Nanoparticles on Surfaces Using Scanning Probe Lithography. Nano Letters, 2003, 3, 389-395.	4.5	134
54	Self-Assembling of Monolayer-Protected Gold Nanoparticles. Journal of Physical Chemistry B, 2000, 104, 663-667.	1.2	132

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55	Synthesis and Characterization of Ultrathin WO3Nanodisks Utilizing Long-Chain Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.2	132
56	Photo-enhanced antibacterial activity of ZnO/graphene quantum dot nanocomposites. Nanoscale, 2018, 10, 158-166.	2.8	132
57	Iron-Catalyzed Carboamination of Olefins: Synthesis of Amines and Disubstituted Î²-Amino Acids. Journal of the American Chemical Society, 2017, 139, 13076-13082.	6.6	131
58	Nitrogen and sulfur co-doped porous carbon derived from human hair as highly efficient metal-free electrocatalysts for hydrogen evolution reactions. Journal of Materials Chemistry A, 2015, 3, 8840-8846.	5.2	130
59	Influence of phosphate anion adsorption on the kinetics of oxygen electroreduction on low index Pt(hkl) single crystals. Physical Chemistry Chemical Physics, 2010, 12, 12544.	1.3	127
60	Graphene composites with Ru-RuO2 heterostructures: Highly efficient Mottâ€“Schottky-type electrocatalysts for pH-universal water splitting and flexible zincâ€“air batteries. Applied Catalysis B: Environmental, 2022, 302, 120838.	10.8	124
61	Metal Nickel Foam as an Efficient and Stable Electrode for Hydrogen Evolution Reaction in Acidic Electrolyte under Reasonable Overpotentials. ACS Applied Materials & Interfaces, 2016, 8, 5065-5069.	4.0	122
62	Janus Nanostructures Based on Auâ^'TiO₂ Heterodimers and Their Photocatalytic Activity in the Oxidation of Methanol. ACS Applied Materials & Interfaces, 2009, 1, 2060-2065.	4.0	120
63	Synergy between Plasmonic and Electrocatalytic Activation of Methanol Oxidation on Palladiumâ€“Silver Alloy Nanotubes. Angewandte Chemie - International Edition, 2019, 58, 8794-8798.	7.2	120
64	Porous Carbon-Supported Gold Nanoparticles for Oxygen Reduction Reaction: Effects of Nanoparticle Size. ACS Applied Materials & Interfaces, 2016, 8, 20635-20641.	4.0	118
65	Co-N-doped MoO2 nanowires as efficient electrocatalysts for the oxygen reduction reaction and hydrogen evolution reaction. Nano Energy, 2017, 41, 772-779.	8.2	118
66	Total Water Splitting Catalyzed by Co@Ir Coreâ€“Shell Nanoparticles Encapsulated in Nitrogen-Doped Porous Carbon Derived from Metalâ€“Organic Frameworks. ACS Sustainable Chemistry and Engineering, 2018, 6, 5105-5114.	3.2	113
67	Magnetoelectrochemistry of Gold Nanoparticle Quantized Capacitance Charging. Journal of the American Chemical Society, 2002, 124, 5280-5281.	6.6	112
68	Langmuirâ^'Blodgett Fabrication of Two-Dimensional Robust Cross-Linked Nanoparticle Assemblies. Langmuir, 2001, 17, 2878-2884.	1.6	110
69	Electrocatalytic Properties of Pt Nanowires Supported on Pt and W Gauzes. ACS Nano, 2008, 2, 2167-2173.	7.3	110
70	Cu(II) Ions Induced Structural Transformation of Cobalt Selenides for Remarkable Enhancement in Oxygen/Hydrogen Electrocatalysis. ACS Catalysis, 2019, 9, 10761-10772.	5.5	110
71	Monolayer-Protected Cluster Growth Dynamics. Langmuir, 2000, 16, 3543-3548.	1.6	109
72	N-doped carbon-coated cobalt nanorod arrays supported on a titanium mesh as highly active electrocatalysts for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2015, 3, 1915-1919.	5.2	105

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73	Visible light photocatalytic degradation of sulfanilamide enhanced by Mo doping of BiOBr nanoflowers. Journal of Hazardous Materials, 2022, 424, 127563.	6.5	104
74	Molybdenum carbide on hierarchical porous carbon synthesized from Cu-MoO2 as efficient electrocatalysts for electrochemical hydrogen generation. Nano Energy, 2017, 41, 749-757.	8.2	103
75	Graphene Composites with Cobalt Sulfide: Efficient Trifunctional Electrocatalysts for Oxygen Reversible Catalysis and Hydrogen Production in the Same Electrolyte. Small, 2017, 13, 1701025.	5.2	103
76	Fabrication of Self-Supported Patterns of AlignedÎ²-FeOOH Nanowires by a Low-Temperature Solution Reaction. Chemistry - A European Journal, 2003, 9, 4991-4996.	1.7	101
77	Co@Pt Core@Shell nanoparticles encapsulated in porous carbon derived from zeolitic imidazolate framework 67 for oxygen electroreduction in alkaline media. Journal of Power Sources, 2017, 343, 458-466.	4.0	99
78	Iridium-platinum alloy nanoparticles: Composition-dependent electrocatalytic activity for formic acid oxidation. Journal of Materials Chemistry, 2011, 21, 9169.	6.7	97
79	Photocatalytic activity of Ag3PO4 nanoparticle/TiO2 nanobelt heterostructures. Applied Surface Science, 2012, 258, 9805-9809.	3.1	95
80	Conducting Polymers Crosslinked with Sulfur as Cathode Materials for Highâ€Rate, Ultralongâ€Life Lithiumâ€“Sulfur Batteries. ChemSusChem, 2017, 10, 3378-3386.	3.6	95
81	Large-scale electrochemical synthesis of SnO2 nanoparticles. Journal of Materials Science, 2008, 43, 5291-5299.	1.7	94
82	Graphene oxide-supported zinc cobalt oxides as effective cathode catalysts for microbial fuel cell: High catalytic activity and inhibition of biofilm formation. Nano Energy, 2019, 57, 811-819.	8.2	94
83	Carbon aerogels with atomic dispersion of binary ironâ€“cobalt sites as effective oxygen catalysts for flexible zincâ€“air batteries. Journal of Materials Chemistry A, 2020, 8, 11649-11655.	5.2	94
84	Theoryâ€Guided Regulation of FeN₄Spin State by Neighboring Cu Atoms for Enhanced Oxygen Reduction Electrocatalysis in Flexible Metalâ€“Air Batteries. Angewandte Chemie - International Edition, 2022, 61, .	7.2	93
85	Effective photocatalysis of functional nanocomposites based on carbon and TiO2 nanoparticles. Nanoscale, 2013, 5, 4986.	2.8	92
86	Enhanced Performance of Layered Titanate Nanowire-Based Supercapacitor Electrodes by Nickel Ion Exchange. ACS Applied Materials & Interfaces, 2014, 6, 4578-4586.	4.0	92
87	Nitrogen and Iron-Codoped Carbon Hollow Nanotubules as High-Performance Catalysts toward Oxygen Reduction Reaction: A Combined Experimental and Theoretical Study. Chemistry of Materials, 2017, 29, 5617-5628.	3.2	92
88	Flexible wire-like all-carbon supercapacitors based on porous coreâ€“shell carbon fibers. Journal of Materials Chemistry A, 2014, 2, 7250-7255.	5.2	91
89	Hierarchical carbon microflowers supported defect-rich Co3S4 nanoparticles: An efficient electrocatalyst for water splitting. Carbon, 2020, 160, 133-144.	5.4	90
90	Ion-Induced Rectification of Nanoparticle Quantized Capacitance Charging in Aqueous Solutions. Journal of the American Chemical Society, 2001, 123, 10607-10615.	6.6	89

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91	Bioreduction of Precious Metals by Microorganism: Efficient Gold@Nâ€Doped Carbon Electrocatalysts for the Hydrogen Evolution Reaction. Angewandte Chemie - International Edition, 2016, 55, 8416-8420.	7.2	88
92	Enhancement of the electrocatalytic activity of Pt nanoparticles in oxygen reduction by chlorophenyl functionalization. Chemical Communications, 2012, 48, 3391.	2.2	87
93	Janus Nanoparticles: Preparation, Characterization, and Applications. Chemistry - an Asian Journal, 2014, 9, 418-430.	1.7	86
94	Manganese oxide/graphene oxide composites for high-energy aqueous asymmetric electrochemical capacitors. Electrochimica Acta, 2013, 110, 228-233.	2.6	82
95	Visible-light degradation of antibiotics catalyzed by titania/zirconia/graphitic carbon nitride ternary nanocomposites: a combined experimental and theoretical study. Applied Catalysis B: Environmental, 2022, 300, 120633.	10.8	82
96	Pyrene-Functionalized Ruthenium Nanoparticles as Effective Chemosensors for Nitroaromatic Derivatives. Analytical Chemistry, 2010, 82, 461-465.	3.2	81
97	AgAu Bimetallic Janus Nanoparticles and Their Electrocatalytic Activity for Oxygen Reduction in Alkaline Media. Langmuir, 2012, 28, 17143-17152.	1.6	81
98	Ligand-Mediated Electrocatalytic Activity of Pt Nanoparticles for Oxygen Reduction Reactions. Journal of Physical Chemistry C, 2012, 116, 10592-10598.	1.5	80
99	Polymer-Capped Sulfur Copolymers as Lithiumâ€“Sulfur Battery Cathode: Enhanced Performance by Combined Contributions of Physical and Chemical Confinements. Journal of Physical Chemistry C, 2017, 121, 2495-2503.	1.5	79
100	Alkyne-Protected Ruthenium Nanoparticles. Journal of Physical Chemistry C, 2010, 114, 18146-18152.	1.5	78
101	Nanoparticle Assemblies:Â â€œRectifiedâ€•Quantized Charging in Aqueous Media. Journal of the American Chemical Society, 2000, 122, 7420-7421.	6.6	76
102	Ruthenium Ionâ€Complexed Graphitic Carbon Nitride Nanosheets Supported on Reduced Graphene Oxide as Highâ€Performance Catalysts for Electrochemical Hydrogen Evolution. ChemSusChem, 2018, 11, 130-136.	3.6	76
103	Electrocatalysts based on metal@carbon core@shell nanocomposites: AnÂoverview. Green Energy and Environment, 2018, 3, 335-351.	4.7	75
104	Flexible and porous catalyst electrodes constructed by Co nanoparticles@nitrogen-doped graphene films for highly efficient hydrogen evolution. Journal of Materials Chemistry A, 2015, 3, 15962-15968.	5.2	74
105	Graphene Quantum-Dot-Supported Platinum Nanoparticles: Defect-Mediated Electrocatalytic Activity in Oxygen Reduction. ACS Applied Materials & Interfaces, 2014, 6, 14050-14060.	4.0	73
106	Heterostructured intermetallic CuSn catalysts: high performance towards the electrochemical reduction of CO₂ to formate. Journal of Materials Chemistry A, 2019, 7, 27514-27521.	5.2	73
107	Langmuirâ€'Blodgett Thin Films of Fe20Pt80Nanoparticles for the Electrocatalytic Oxidation of Formic Acid. Journal of Physical Chemistry C, 2007, 111, 13452-13459.	1.5	72
108	Photocatalytic reduction of methylene blue by TiO2 nanotube arrays: effects of TiO2 crystalline phase. Journal of Materials Science, 2010, 45, 2696-2702.	1.7	72

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109	Construction of durable antibacterial and anti-mildew cotton fabric based on P(DMDAAC-AGE)/Ag/ZnO composites. Carbohydrate Polymers, 2019, 204, 161-169.	5.1	72
110	Electrocatalytic activity of alkyne-functionalized AgAu alloy nanoparticles for oxygen reduction in alkaline media. Nanoscale, 2015, 7, 9627-9636.	2.8	71
111	Enhanced electrocatalytic activity of Co@N-doped carbon nanotubes by ultrasmall defect-rich TiO2 nanoparticles for hydrogen evolution reaction. Nano Research, 2017, 10, 2599-2609.	5.8	69
112	A three-dimensional nitrogen-doped graphene aerogel-activated carbon composite catalyst that enables low-cost microfluidic microbial fuel cells with superior performance. Journal of Materials Chemistry A, 2016, 4, 15913-15919.	5.2	68
113	Single iron atoms stabilized by microporous defects of biomass-derived carbon aerogels as high-performance cathode electrocatalysts for aluminumâ€“air batteries. Journal of Materials Chemistry A, 2019, 7, 20840-20846.	5.2	68
114	Carbene-Functionalized Ruthenium Nanoparticles. Chemistry of Materials, 2006, 18, 5253-5259.	3.2	66
115	Organically Capped Iridium Nanoparticles as High-Performance Bifunctional Electrocatalysts for Full Water Splitting in Both Acidic and Alkaline Media: Impacts of Metalâ€“Ligand Interfacial Interactions. ACS Catalysis, 2021, 11, 1179-1188.	5.5	65
116	Graphene Quantum Dots-Supported Palladium Nanoparticles for Efficient Electrocatalytic Reduction of Oxygen in Alkaline Media. ACS Sustainable Chemistry and Engineering, 2015, 3, 3315-3323.	3.2	64
117	Ruthenium Ion-Complexed Carbon Nitride Nanosheets with Peroxidase-like Activity as a Ratiometric Fluorescence Probe for the Detection of Hydrogen Peroxide and Glucose. ACS Applied Materials & Interfaces, 2019, 11, 29072-29077.	4.0	64
118	Palladium nanoparticles passivated by metalâ€“carbon covalent linkages. Journal of Materials Chemistry, 2008, 18, 755.	6.7	63
119	Surface Functionalization of Metal Nanoparticles by Conjugated Metalâ€“Ligand Interfacial Bonds: Impacts on Intraparticle Charge Transfer. Accounts of Chemical Research, 2016, 49, 2251-2260.	7.6	63
120	PdO/TiO₂ and Pd/TiO₂ Heterostructured Nanobelts with Enhanced Photocatalytic Activity. Chemistry - an Asian Journal, 2014, 9, 1648-1654.	1.7	61
121	Highâ€Performance Electrocatalysts for Oxygen Reduction Based on Nitrogenâ€Doped Porous Carbon from Hydrothermal Treatment of Glucose and Dicyandiamide. ChemElectroChem, 2015, 2, 803-810.	1.7	61
122	Nickel nanoparticles partially embedded into carbon fiber cloth via metal-mediated pitting process as flexible and efficient electrodes for hydrogen evolution reactions. Carbon, 2017, 122, 710-717.	5.4	61
123	High-performance Li-Se battery cathode based on CoSe 2 -porous carbon composites. Electrochimica Acta, 2018, 264, 341-349.	2.6	61
124	Graphene-supported highly crosslinked organosulfur nanoparticles as cathode materials for high-rate, long-life lithium-sulfur battery. Carbon, 2017, 122, 106-113.	5.4	60
125	Nanoparticle-Mediated Intervalence Transfer. Journal of the American Chemical Society, 2008, 130, 12156-12162.	6.6	59
126	A double substrate â€œsandwichâ€•structure for fiber surface enhanced Raman scattering detection. Applied Physics Letters, 2008, 92, .	1.5	59

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127	Butylphenyl-functionalized palladium nanoparticles as effective catalysts for the electrooxidation of formic acid. Chemical Communications, 2011, 47, 6075.	2.2	59
128	Antimicrobial Activity of Zinc Oxideâ€“Graphene Quantum Dot Nanocomposites: Enhanced Adsorption on Bacterial Cells by Cationic Capping Polymers. ACS Sustainable Chemistry and Engineering, 2019, 7, 16264-16273.	3.2	59
129	Oxygen reduction catalyzed by gold nanoclusters supported on carbon nanosheets. Nanoscale, 2016, 8, 6629-6635.	2.8	58
130	4-Hydroxythiophenol-Protected Gold Nanoclusters in Aqueous Media. Langmuir, 1999, 15, 7551-7557.	1.6	57
131	Alkyne-Functionalized Ruthenium Nanoparticles: Rutheniumâ€“Vinylidene Bonds at the Metalâ€“Ligand Interface. Journal of the American Chemical Society, 2012, 134, 1412-1415.	6.6	57
132	Controllable synthesis of cerium zirconium oxide nanocomposites and their application for photocatalytic degradation of sulfonamides. Applied Catalysis B: Environmental, 2019, 259, 118107.	10.8	57
133	Lateral Quantized Charge Transfer Across Nanoparticle Monolayers at the Air/Water Interface. Journal of the American Chemical Society, 2004, 126, 76-77.	6.6	56
134	Titanium Nanoparticles Stabilized by Tiâ^'C Covalent Bonds. Chemistry of Materials, 2008, 20, 1248-1250.	3.2	54
135	Nitrogen Self-Doped Porous Carbon from Surplus Sludge as Metal-Free Electrocatalysts for Oxygen Reduction Reactions. ACS Applied Materials & Interfaces, 2014, 6, 14911-14918.	4.0	54
136	Grapheneâ€Supported Mesoporous Carbons Prepared with Thermally Removable Templates as Efficient Catalysts for Oxygen Electroreduction. Small, 2016, 12, 1900-1908.	5.2	54
137	Volatilizable template-assisted scalable preparation of honeycomb-like porous carbons for efficient oxygen electroreduction. Journal of Materials Chemistry A, 2016, 4, 10820-10827.	5.2	54
138	Palladium nanoparticles grown on Î²-Mo2C nanotubes as dual functional electrocatalysts for both oxygen reduction reaction and hydrogen evolution reaction. International Journal of Hydrogen Energy, 2018, 43, 4932-4941.	3.8	54
139	Highly Ordered Hierarchical Pt and PtNi Nanowire Arrays for Enhanced Electrocatalytic Activity toward Methanol Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 9444-9450.	4.0	54
140	PdAg@Pd core-shell nanotubes: Superior catalytic performance towards electrochemical oxidation of formic acid and methanol. Journal of Power Sources, 2018, 398, 201-208.	4.0	54
141	Gold Nanoparticle Assemblies by Metal Ionâ^'Pyridine Complexation and Their Rectified Quantized Charging in Aqueous Solutions. Journal of Physical Chemistry B, 2002, 106, 1903-1908.	1.2	53
142	Dithiocarbamate-Capped Silver Nanoparticles. Journal of Physical Chemistry B, 2006, 110, 19238-19242.	1.2	53
143	UV-visible-light-activated photocatalysts based on Bi2O3/Bi4Ti3O12/TiO2 double-heterostructured TiO2 nanobelts. Journal of Materials Chemistry, 2012, 22, 23395.	6.7	53
144	â€œLewis Base-Hungryâ€•Amorphousâ€“Crystalline Nickel Borateâ€“Nickel Sulfide Heterostructures by In Situ Structural Engineering as Effective Bifunctional Electrocatalysts toward Overall Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 23896-23903.	4.0	53

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145	SnO2â€“Au hybrid nanoparticles as effective catalysts for oxygen electroreduction in alkaline media. Journal of Power Sources, 2010, 195, 412-418.	4.0	52
146	Supercapacitor electrodes based on nano-polyaniline deposited on hollow carbon spheres derived from cross-linked co-polymers. Synthetic Metals, 2015, 209, 369-376.	2.1	52
147	High-performance Ru-based electrocatalyst composed of Ru nanoparticles and Ru single atoms for hydrogen evolution reaction in alkaline solution. International Journal of Hydrogen Energy, 2020, 45, 18840-18849.	3.8	52
148	Nanocomposites based on hierarchical porous carbon fiber@vanadium nitride nanoparticles as supercapacitor electrodes. Dalton Transactions, 2018, 47, 4128-4138.	1.6	51
149	Janus nanoparticles: reaction dynamics and NOESY characterization. Journal of Nanoparticle Research, 2009, 11, 1895-1903.	0.8	50
150	Computational Study of Bridge-Assisted Intervalence Electron Transfer. Journal of Physical Chemistry A, 2010, 114, 6039-6046.	1.1	50
151	Biomass-Derived Carbon for Electrode Fabrication in Microbial Fuel Cells: A Review. Industrial & Engineering Chemistry Research, 2020, 59, 6391-6404.	1.8	50
152	Pyrene-Functionalized Ruthenium Nanoparticles: Novel Fluorescence Characteristics from Intraparticle Extended Conjugation. Journal of Physical Chemistry C, 2009, 113, 16988-16995.	1.5	49
153	Comparison of the Interfacial Activity between Homogeneous and Janus Gold Nanoparticles by Pendant Drop Tensiometry. Langmuir, 2014, 30, 1799-1804.	1.6	49
154	Impacts of interfacial charge transfer on nanoparticle electrocatalytic activity towards oxygen reduction. Physical Chemistry Chemical Physics, 2017, 19, 9336-9348.	1.3	49
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