

Chengzhou Zhu

List of Publications by Citations

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231
papers

19,689
citations

72
h-index

134
g-index

243
ext. papers

23,568
ext. citations

10.8
avg. IF

7.46
L-index

#	Paper	IF	Citations
231	Reducing sugar: new functional molecules for the green synthesis of graphene nanosheets. <i>ACS Nano</i> , 2010 , 4, 2429-37	16.7	1145
230	Electrochemical sensors and biosensors based on nanomaterials and nanostructures. <i>Analytical Chemistry</i> , 2015 , 87, 230-49	7.8	935
229	Single-Atom Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13944-13960	16.4	756
228	Highly efficient nonprecious metal catalysts towards oxygen reduction reaction based on three-dimensional porous carbon nanostructures. <i>Chemical Society Reviews</i> , 2016 , 45, 517-31	58.5	665
227	Bifunctional fluorescent carbon nanodots: green synthesis via soy milk and application as metal-free electrocatalysts for oxygen reduction. <i>Chemical Communications</i> , 2012 , 48, 9367-9	5.8	569
226	Engineering Ordered and Nonordered Porous Noble Metal Nanostructures: Synthesis, Assembly, and Their Applications in Electrochemistry. <i>Chemical Reviews</i> , 2015 , 115, 8896-943	68.1	470
225	Robust noble metal-based electrocatalysts for oxygen evolution reaction. <i>Chemical Society Reviews</i> , 2019 , 48, 3181-3192	58.5	420
224	Easy synthesis and imaging applications of cross-linked green fluorescent hollow carbon nanoparticles. <i>ACS Nano</i> , 2012 , 6, 400-9	16.7	409
223	PdM (M = Pt, Au) bimetallic alloy nanowires with enhanced electrocatalytic activity for electro-oxidation of small molecules. <i>Advanced Materials</i> , 2012 , 24, 2326-31	24	367
222	Hierarchically Porous MN ₂ C (M = Co and Fe) Single-Atom Electrocatalysts with Robust MN _x Active Moieties Enable Enhanced ORR Performance. <i>Advanced Energy Materials</i> , 2018 , 8, 1801956	21.8	351
221	Recent progress in graphene-based nanomaterials as advanced electrocatalysts towards oxygen reduction reaction. <i>Nanoscale</i> , 2013 , 5, 1753-67	7.7	312
220	Recent advances in electrochemical biosensors based on graphene two-dimensional nanomaterials. <i>Biosensors and Bioelectronics</i> , 2016 , 76, 195-212	11.8	271
219	Bimetallic Cobalt-Based Phosphide Zeolitic Imidazolate Framework: CoPx Phase-Dependent Electrical Conductivity and Hydrogen Atom Adsorption Energy for Efficient Overall Water Splitting. <i>Advanced Energy Materials</i> , 2017 , 7, 1601555	21.8	271
218	Self-assembly of cationic polyelectrolyte-functionalized graphene nanosheets and gold nanoparticles: a two-dimensional heterostructure for hydrogen peroxide sensing. <i>Langmuir</i> , 2010 , 26, 11277-82	4	269
217	Graphene oxide/polypyrrole nanocomposites: one-step electrochemical doping, coating and synergistic effect for energy storage. <i>Journal of Materials Chemistry</i> , 2012 , 22, 6300		261
216	Metal-Organic Framework-Derived Non-Precious Metal Nanocatalysts for Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , 2017 , 7, 1700363	21.8	228
215	Self-Assembled Fe-N-Doped Carbon Nanotube Aerogels with Single-Atom Catalyst Feature as High-Efficiency Oxygen Reduction Electrocatalysts. <i>Small</i> , 2017 , 13, 1603407	11	207

214	Drug-Derived Bright and Color-Tunable N-Doped Carbon Dots for Cell Imaging and Sensitive Detection of Fe in Living Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 7399-7405	9.5	206
213	MnO Nanosheet-Carbon Dots Sensing Platform for Sensitive Detection of Organophosphorus Pesticides. <i>Analytical Chemistry</i> , 2018 , 90, 2618-2624	7.8	203
212	When Nanozymes Meet Single-Atom Catalysis. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2565-2576	10.1	201
211	Single-Atom Catalysts for Electrochemical Water Splitting. <i>ACS Energy Letters</i> , 2018 , 3, 1713-1721	20.1	198
210	Carbon quantum dots as fluorescence resonance energy transfer sensors for organophosphate pesticides determination. <i>Biosensors and Bioelectronics</i> , 2017 , 94, 292-297	11.8	190
209	Recent Advances in Electrochemical Immunosensors. <i>Analytical Chemistry</i> , 2017 , 89, 138-156	7.8	188
208	Graphene Quantum Dot-MnO ₂ Nanosheet Based Optical Sensing Platform: A Sensitive Fluorescence "Turn Off-On" Nanosensor for Glutathione Detection and Intracellular Imaging. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21990-6	9.5	183
207	Graphene-like 2D nanomaterial-based biointerfaces for biosensing applications. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 43-55	11.8	182
206	Self-supporting activated carbon/carbon nanotube/reduced graphene oxide flexible electrode for high performance supercapacitor. <i>Carbon</i> , 2018 , 129, 236-244	10.4	181
205	Graphene-like two-dimensional layered nanomaterials: applications in biosensors and nanomedicine. <i>Nanoscale</i> , 2015 , 7, 14217-31	7.7	180
204	Facile solvothermal synthesis of cube-like Ag@AgCl: a highly efficient visible light photocatalyst. <i>Nanoscale</i> , 2011 , 3, 2931-5	7.7	179
203	One-pot, water-phase approach to high-quality graphene/TiO ₂ composite nanosheets. <i>Chemical Communications</i> , 2010 , 46, 7148-50	5.8	175
202	One-step, solvothermal synthesis of graphene-CdS and graphene-ZnS quantum dot nanocomposites and their interesting photovoltaic properties. <i>Nano Research</i> , 2010 , 3, 794-799	10	166
201	Efficient Synthesis of M ₂ Cu (M = Pd, Pt, and Au) Aerogels with Accelerated Gelation Kinetics and their High Electrocatalytic Activity. <i>Advanced Materials</i> , 2016 , 28, 8779-8783	24	161
200	Nickel cobalt oxide hollow nanosponges as advanced electrocatalysts for the oxygen evolution reaction. <i>Chemical Communications</i> , 2015 , 51, 7851-4	5.8	158
199	Single Fe Atom on Hierarchically Porous S, N-Codoped Nanocarbon Derived from Porphyrin Enable Boosted Oxygen Catalysis for Rechargeable Zn-Air Batteries. <i>Small</i> , 2019 , 15, e1900307	11	153
198	Oxidase-mimicking activity of ultrathin MnO nanosheets in colorimetric assay of acetylcholinesterase activity. <i>Nanoscale</i> , 2017 , 9, 2317-2323	7.7	152
197	Facile One-Step Synthesis of Three-Dimensional Pd-Ag Bimetallic Alloy Networks and Their Electrocatalytic Activity toward Ethanol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 13842-8	9.5	151

196	Layer-by-layer self-assembly for constructing a graphene/platinum nanoparticle three-dimensional hybrid nanostructure using ionic liquid as a linker. <i>Langmuir</i> , 2010 , 26, 7614-8	4	151
195	Cobalt and nitrogen-cofunctionalized graphene as a durable non-precious metal catalyst with enhanced ORR activity,. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3593	13	150
194	Glucose Oxidase-Integrated Metal-Organic Framework Hybrids as Biomimetic Cascade Nanozymes for Ultrasensitive Glucose Biosensing. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22096-22101	9.5	134
193	Graphene-based aptamer logic gates and their application to multiplex detection. <i>ACS Nano</i> , 2012 , 6, 6659-66	16.7	132
192	Facilely Tuning Porous NiCo ₂ O ₄ Nanosheets with Metal Valence-State Alteration and Abundant Oxygen Vacancies as Robust Electrocatalysts Towards Water Splitting. <i>Chemistry - A European Journal</i> , 2016 , 22, 4000-7	4.8	130
191	Fe-N-C Single-Atom Nanozymes for the Intracellular Hydrogen Peroxide Detection. <i>Analytical Chemistry</i> , 2019 , 91, 11994-11999	7.8	128
190	Gold Aerogels: Three-Dimensional Assembly of Nanoparticles and Their Use as Electrocatalytic Interfaces. <i>ACS Nano</i> , 2016 , 10, 2559-67	16.7	125
189	Red carbon dots: Optical property regulations and applications. <i>Materials Today</i> , 2019 , 30, 52-79	21.8	122
188	Kinetically controlled synthesis of PdNi bimetallic porous nanostructures with enhanced electrocatalytic activity. <i>Small</i> , 2015 , 11, 1430-4	11	118
187	Highly Ordered Mesoporous Bimetallic Phosphides as Efficient Oxygen Evolution Electrocatalysts. <i>ACS Energy Letters</i> , 2016 , 1, 792-796	20.1	116
186	In situ loading of well-dispersed gold nanoparticles on two-dimensional graphene oxide/SiO ₂ composite nanosheets and their catalytic properties. <i>Nanoscale</i> , 2012 , 4, 1641-6	7.7	110
185	Label-free, regenerative and sensitive surface plasmon resonance and electrochemical aptasensors based on graphene. <i>Chemical Communications</i> , 2011 , 47, 7794-6	5.8	107
184	One-step electrochemical approach to the synthesis of Graphene/MnO ₂ nanowall hybrids. <i>Nano Research</i> , 2011 , 4, 648-657	10	107
183	Graphene and graphene-like 2D materials for optical biosensing and bioimaging: a review. <i>2D Materials</i> , 2015 , 2, 032004	5.9	106
182	Bioinspired Synthesis of All-in-One Organic-Inorganic Hybrid Nanoflowers Combined with a Handheld pH Meter for On-Site Detection of Food Pathogen. <i>Small</i> , 2016 , 12, 3094-100	11	105
181	3D graphene-based hybrid materials: synthesis and applications in energy storage and conversion. <i>Nanoscale</i> , 2016 , 8, 15414-47	7.7	105
180	Metal-organic frameworks-based catalysts for electrochemical oxygen evolution. <i>Materials Horizons</i> , 2019 , 6, 684-702	14.4	104
179	Recent advances in emerging 2D nanomaterials for biosensing and bioimaging applications. <i>Materials Today</i> , 2018 , 21, 164-177	21.8	104

178	Oxidase-Like Fe-N-C Single-Atom Nanozymes for the Detection of Acetylcholinesterase Activity. <i>Small</i> , 2019 , 15, e1903108	11	102
177	Enhanced sensitivity of a direct SERS technique for Hg ²⁺ detection based on the investigation of the interaction between silver nanoparticles and mercury ions. <i>Nanoscale</i> , 2012 , 4, 5902-9	7.7	102
176	Graphene enhanced electron transfer at aptamer modified electrode and its application in biosensing. <i>Analytical Chemistry</i> , 2012 , 84, 7301-7	7.8	100
175	Robust and Stable Acidic Overall Water Splitting on Ir Single Atoms. <i>Nano Letters</i> , 2020 , 20, 2120-2128	11.5	95
174	Nanovoid Incorporated IrxCu Metallic Aerogels for Oxygen Evolution Reaction Catalysis. <i>ACS Energy Letters</i> , 2018 , 3, 2038-2044	20.1	94
173	Rapid, general synthesis of PdPt bimetallic alloy nanospheres and their enhanced catalytic performance for ethanol/methanol electrooxidation in an alkaline medium. <i>Chemistry - A European Journal</i> , 2013 , 19, 1104-11	4.8	93
172	One-pot synthesis of B-doped three-dimensional reduced graphene oxide via supercritical fluid for oxygen reduction reaction. <i>Green Chemistry</i> , 2015 , 17, 3552-3560	10	92
171	Porous Carbon-Hosted Atomically Dispersed Iron-Nitrogen Moiety as Enhanced Electrocatalysts for Oxygen Reduction Reaction in a Wide Range of pH. <i>Small</i> , 2018 , 14, e1703118	11	89
170	Colorimetric and chemiluminescent dual-readout immunochromatographic assay for detection of pesticide residues utilizing g-CN/BiFeO nanocomposites. <i>Biosensors and Bioelectronics</i> , 2018 , 106, 43-49	11.8	88
169	A Nanozyme- and Ambient Light-Based Smartphone Platform for Simultaneous Detection of Dual Biomarkers from Exposure to Organophosphorus Pesticides. <i>Analytical Chemistry</i> , 2018 , 90, 7391-7398	7.8	88
168	Densely Isolated FeN ₄ Sites for Peroxidase Mimicking. <i>ACS Catalysis</i> , 2020 , 10, 6422-6429	13.1	87
167	Ultrafine and highly disordered Ni ₂ Fe ₁ nanofoams enabled highly efficient oxygen evolution reaction in alkaline electrolyte. <i>Nano Energy</i> , 2018 , 44, 319-326	17.1	85
166	Multifunctional water-soluble luminescent carbon dots for imaging and Hg sensing. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 6995-6999	7.3	84
165	Einzelatom-Elektrokatalysatoren. <i>Angewandte Chemie</i> , 2017 , 129, 14132-14148	3.6	83
164	An ultrasensitive fluorescent aptasensor for adenosine detection based on exonuclease III assisted signal amplification. <i>Biosensors and Bioelectronics</i> , 2012 , 34, 83-7	11.8	83
163	Cascade Reaction System Integrating Single-Atom Nanozymes with Abundant Cu Sites for Enhanced Biosensing. <i>Analytical Chemistry</i> , 2020 , 92, 3373-3379	7.8	81
162	Recent advances in spectroelectrochemistry. <i>Nanoscale</i> , 2018 , 10, 3089-3111	7.7	79
161	Single-Atom Iron Boosts Electrochemiluminescence. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3534-3538	16.4	76

160	Polydopamine-Capped Bimetallic AuPt Hydrogels Enable Robust Biosensor for Organophosphorus Pesticide Detection. <i>Small</i> , 2019 , 15, e1900632	11	72
159	Ultrasonic-assisted synthesis of Pd-Pt/carbon nanotubes nanocomposites for enhanced electro-oxidation of ethanol and methanol in alkaline medium. <i>Ultrasonics Sonochemistry</i> , 2016 , 28, 192-198	8.9	70
158	Interface engineering for enhancing electrocatalytic oxygen evolution of NiFe LDH/NiTe heterostructures. <i>Applied Catalysis B: Environmental</i> , 2020 , 273, 119014	21.8	69
157	Boron-doped Fe-N-C single-atom nanozymes specifically boost peroxidase-like activity. <i>Nano Today</i> , 2020 , 35, 100971	17.9	69
156	Dual-Readout Immunochromatographic Assay by Utilizing MnO Nanoflowers as the Unique Colorimetric/Chemiluminescent Probe. <i>Analytical Chemistry</i> , 2018 , 90, 5147-5152	7.8	68
155	Facile synthesis of trimetallic AuPtPd alloy nanowires and their catalysis for ethanol electrooxidation. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14851		68
154	Highly-defective Fe-N-C catalysts towards pH-Universal oxygen reduction reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118347	21.8	68
153	Facile synthesis of two-dimensional graphene/SnO ₂ /Pt ternary hybrid nanomaterials and their catalytic properties. <i>Nanoscale</i> , 2011 , 3, 4376-82	7.7	67
152	Optimization of cobalt/nitrogen embedded carbon nanotubes as an efficient bifunctional oxygen electrode for rechargeable zinc-air batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4864-4870	13	64
151	Low Pt-content ternary PdCuPt nanodendrites: an efficient electrocatalyst for oxygen reduction reaction. <i>Nanoscale</i> , 2017 , 9, 1279-1284	7.7	59
150	PdCuPt Nanocrystals with Multibranches for Enzyme-Free Glucose Detection. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 22196-200	9.5	59
149	Smart Drug Delivery System-Inspired Enzyme-Linked Immunosorbent Assay Based on Fluorescence Resonance Energy Transfer and Allochroic Effect Induced Dual-Modal Colorimetric and Fluorescent Detection. <i>Analytical Chemistry</i> , 2018 , 90, 1976-1982	7.8	58
148	Aqueous-phase synthesis of Ag-TiO ₂ -reduced graphene oxide and Pt-TiO ₂ -reduced graphene oxide hybrid nanostructures and their catalytic properties. <i>Nano Research</i> , 2011 , 4, 1153-1162	10	58
147	One-pot synthesis of functional two-dimensional graphene/SnO ₂ composite nanosheets as a building block for self-assembly and an enhancing nanomaterial for biosensing. <i>Journal of Materials Chemistry</i> , 2011 , 21, 16911		57
146	Multifunctional SnO ₂ /3D graphene hybrid materials for sodium-ion and lithium-ion batteries with excellent rate capability and long cycle life. <i>Nano Research</i> , 2017 , 10, 4398-4414	10	56
145	Secondary-Atom-Doping Enables Robust Fe-N-C Single-Atom Catalysts with Enhanced Oxygen Reduction Reaction. <i>Nano-Micro Letters</i> , 2020 , 12, 163	19.5	56
144	When Nanozymes Meet Single-Atom Catalysis. <i>Angewandte Chemie</i> , 2020 , 132, 2585-2596	3.6	55
143	Fluorescent silicon nanoparticles-based ratiometric fluorescence immunoassay for sensitive detection of ethyl carbamate in red wine. <i>Sensors and Actuators B: Chemical</i> , 2018 , 255, 2742-2749	8.5	54

142	Mitochondrial-targeted multifunctional mesoporous Au@Pt nanoparticles for dual-mode photodynamic and photothermal therapy of cancers. <i>Nanoscale</i> , 2017 , 9, 15813-15824	7.7	54
141	Intermetallic Pd ₃ Pb nanowire networks boost ethanol oxidation and oxygen reduction reactions with significantly improved methanol tolerance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23952-23959	13	53
140	One-pot bioinspired synthesis of all-inclusive protein-protein nanoflowers for point-of-care bioassay: detection of E. coli O157:H7 from milk. <i>Nanoscale</i> , 2016 , 8, 18980-18986	7.7	53
139	Synthesis of graphene-supported noble metal hybrid nanostructures and their applications as advanced electrocatalysts for fuel cells. <i>Nanoscale</i> , 2013 , 5, 10765-75	7.7	53
138	Pt-Ni(OH) nanosheets amplified two-way lateral flow immunoassays with smartphone readout for quantification of pesticides. <i>Biosensors and Bioelectronics</i> , 2019 , 142, 111498	11.8	51
137	Modulating interfacial electronic structure of CoNi LDH nanosheets with Ti ₃ C ₂ T MXene for enhancing water oxidation catalysis. <i>Chemical Engineering Journal</i> , 2020 , 398, 125605	14.7	51
136	Three-dimensional PtNi hollow nanochains as an enhanced electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8755-8761	13	51
135	A dopamine-induced Au hydrogel nanozyme for enhanced biomimetic catalysis. <i>Chemical Communications</i> , 2019 , 55, 9865-9868	5.8	50
134	A Facile Method for Synthesizing Dendritic Core-Shell Structured Ternary Metallic Aerogels and Their Enhanced Electrochemical Performances. <i>Chemistry of Materials</i> , 2016 , 28, 7928-7934	9.6	50
133	Au@Pt nanodendrites enhanced multimodal enzyme-linked immunosorbent assay. <i>Nanoscale</i> , 2019 , 11, 8798-8802	7.7	50
132	Mesoporous Pt Nanotubes as a Novel Sensing Platform for Sensitive Detection of Intracellular Hydrogen Peroxide. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24288-95	9.5	49
131	Energetic carbon-based hybrids: green and facile synthesis from soy milk and extraordinary electrocatalytic activity towards ORR. <i>Nanoscale</i> , 2014 , 6, 2964-70	7.7	49
130	Sugar Blowing-Induced Porous Cobalt Phosphide/Nitrogen-Doped Carbon Nanostructures with Enhanced Electrochemical Oxidation Performance toward Water and Other Small Molecules. <i>Small</i> , 2017 , 13, 1700796	11	49
129	Single-atom catalysts boost signal amplification for biosensing. <i>Chemical Society Reviews</i> , 2021 , 50, 750-765	16.5	49
128	Engineering highly active oxygen sites in perovskite oxides for stable and efficient oxygen evolution. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117817	21.8	48
127	Ultrasonic-assisted synthesis of carbon nanotube supported bimetallic PtRu nanoparticles for effective methanol oxidation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8459-8465	13	48
126	Metal-organic framework derived hierarchically porous nitrogen-doped carbon nanostructures as novel electrocatalyst for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2015 , 178, 287-293	6.7	48
125	One-Pot Fabrication of Mesoporous Core-Shell Au@PtNi Ternary Metallic Nanoparticles and Their Enhanced Efficiency for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 4739-44	9.5	48

124	Highly branched PtCu bimetallic alloy nanodendrites with superior electrocatalytic activities for oxygen reduction reactions. <i>Nanoscale</i> , 2016 , 8, 5076-81	7.7	48
123	Hybrid gold nanocube@silica@graphene-quantum-dot superstructures: synthesis and specific cell surface protein imaging applications. <i>Chemical Communications</i> , 2013 , 49, 2503-5	5.8	48
122	Enhanced Electrocatalytic Activities of PtCuCoNi Three-Dimensional Nanoporous Quaternary Alloys for Oxygen Reduction and Methanol Oxidation Reactions. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 6110-6	9.5	47
121	Carbon nanotubes-ionic liquid nanocomposites sensing platform for NADH oxidation and oxygen, glucose detection in blood. <i>Talanta</i> , 2012 , 91, 110-5	6.2	46
120	Single-atom platinum nanocatalyst-improved catalytic efficiency with enzyme-DNA supermolecular architectures. <i>Nano Energy</i> , 2020 , 74, 104931	17.1	45
119	One-step synthesis of cobalt and nitrogen co-doped carbon nanotubes and their catalytic activity for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 12718-12722	13	44
118	Three-dimensional interconnected core-shell networks with Ni(Fe)OOH and MnO ₂ active species together as high-efficiency oxygen catalysts for rechargeable Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19045-19059	13	44
117	Kinetically Controlled Synthesis of Pt-Based One-Dimensional Hierarchically Porous Nanostructures with Large Mesopores as Highly Efficient ORR Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35213-35218	9.5	44
116	Graphene loaded bimetallic Au@Pt nanodendrites enhancing ultrasensitive electrochemical immunoassay of AFP. <i>Sensors and Actuators B: Chemical</i> , 2016 , 231, 513-519	8.5	44
115	Nitrogen and Fluorine-Codoped Carbon Nanowire Aerogels as Metal-Free Electrocatalysts for Oxygen Reduction Reaction. <i>Chemistry - A European Journal</i> , 2017 , 23, 10460-10464	4.8	42
114	Hierarchically Porous S/N Codoped Carbon Nanozymes with Enhanced Peroxidase-like Activity for Total Antioxidant Capacity Biosensing. <i>Analytical Chemistry</i> , 2020 , 92, 13518-13524	7.8	42
113	A review of optical probes based on nanomaterials for the detection of hydrogen sulfide in biosystems. <i>Analytica Chimica Acta</i> , 2019 , 1061, 1-12	6.6	41
112	Graphene-like Metal-Free 2D Nanosheets for Cancer Imaging and Theranostics. <i>Trends in Biotechnology</i> , 2018 , 36, 1145-1156	15.1	41
111	Versatile Barometer Biosensor Based on Au@Pt Core/Shell Nanoparticle Probe. <i>ACS Sensors</i> , 2017 , 2, 789-795	9.2	40
110	Highly photoluminescent carbon dots derived from linseed and their applications in cellular imaging and sensing. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 3181-3187	7.3	39
109	Ultrafine Pd ensembles anchored-Au ₂ Cu aerogels boost ethanol electrooxidation. <i>Nano Energy</i> , 2018 , 53, 206-212	17.1	39
108	A graphene-based real-time fluorescent assay of deoxyribonuclease I activity and inhibition. <i>Analytica Chimica Acta</i> , 2012 , 740, 88-92	6.6	39
107	Two-Dimensional N,S-Codoped Carbon/CoS Catalysts Derived from Co(OH) Nanosheets for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36755-36761	9.5	38

106	Newly Designed Graphene Cellular Monolith Functionalized with Hollow Pt-M (M = Ni, Co) Nanoparticles as the Electrocatalyst for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25863-25874	9.5	38
105	Ultrathin dendritic IrTe nanotubes for an efficient oxygen evolution reaction in a wide pH range. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8855-8859	13	37
104	Tuning Atomically Dispersed Fe Sites in Metal-Organic Frameworks Boosts Peroxidase-Like Activity for Sensitive Biosensing. <i>Nano-Micro Letters</i> , 2020 , 12, 184	19.5	37
103	Core-shell PdPb@Pd aerogels with multiply-twinned intermetallic nanostructures: facile synthesis with accelerated gelation kinetics and their enhanced electrocatalytic properties. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7517-7521	13	36
102	Multiplexed bioactive paper based on GO@SiO ₂ @CeO ₂ nanosheets for a low-cost diagnostics platform. <i>Biosensors and Bioelectronics</i> , 2014 , 52, 324-9	11.8	36
101	Electrically Switched Ion Exchange Based on Polypyrrole and Carbon Nanotube Nanocomposite for the Removal of Chromium(VI) from Aqueous Solution. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 768-774	3.9	35
100	A dramatic platform for oxygen reduction reaction based on silver nanoclusters. <i>Chemical Communications</i> , 2014 , 50, 234-6	5.8	35
99	Kinetically controlled synthesis of AuPt bi-metallic aerogels and their enhanced electrocatalytic performances. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19626-19631	13	35
98	Interconnected Fe, S, N-Codoped Hollow and Porous Carbon Nanorods as Efficient Electrocatalysts for the Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 40298-40306	9.5	35
97	Nanozyme-involved biomimetic cascade catalysis for biomedical applications. <i>Materials Today</i> , 2021 , 44, 211-228	21.8	35
96	Tubular titanium oxide/reduced graphene oxide-sulfur composite for improved performance of lithium sulfur batteries. <i>Carbon</i> , 2018 , 128, 63-69	10.4	35
95	Integrating in situ formation of nanozymes with three-dimensional dendritic mesoporous silica nanospheres for hypoxia-overcoming photodynamic therapy. <i>Nanoscale</i> , 2018 , 10, 22937-22945	7.7	35
94	One-pot synthesis of 3-dimensional reduced graphene oxide-based hydrogel as support for microbe immobilization and BOD biosensor preparation. <i>Biosensors and Bioelectronics</i> , 2015 , 63, 483-489	11.8	34
93	SWCNTs@GQDs composites as nanocarriers for enzyme-free dual-signal amplification electrochemical immunoassay of cancer biomarker. <i>Analytica Chimica Acta</i> , 2018 , 1042, 44-51	6.6	34
92	Catalytic Activity of Co _X (X = S, P, O) and Its Dependency on Nanostructure/Chemical Composition in Lithium Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2018 , 1, 7014-7021	6.1	34
91	Twenty second synthesis of Pd nanourchins with high electrochemical activity through an electrochemical route. <i>Langmuir</i> , 2010 , 26, 17816-20	4	32
90	Hierarchical manganese dioxide nanoflowers enable accurate ratiometric fluorescence enzyme-linked immunosorbent assay. <i>Nanoscale</i> , 2018 , 10, 21893-21897	7.7	32
89	Improving the performance of a membraneless and mediatorless glucose-air biofuel cell with a TiO ₂ nanotube photoanode. <i>Chemical Communications</i> , 2012 , 48, 6103-5	5.8	31

88	Recent advances in co-reaction accelerators for sensitive electrochemiluminescence analysis. <i>Chemical Communications</i> , 2020 , 56, 10989-10999	5.8	31
87	Single-Atom-Based Heterojunction Coupling with Ion-Exchange Reaction for Sensitive Photoelectrochemical Immunoassay. <i>Nano Letters</i> , 2021 , 21, 1879-1887	11.5	31
86	Single-atom catalysts boost nitrogen electroreduction reaction. <i>Materials Today</i> , 2020 , 38, 99-113	21.8	30
85	Bimetallic alloy nanowires and nanosponges: A comparative study of peroxidase mimetics and as enhanced catalysts for oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2013 , 36, 22-25	5.1	30
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