

# Shuhui Sun

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2637826/publications.pdf>

Version: 2024-02-01

263  
papers

16,978  
citations

13865

67  
h-index

20961

115  
g-index

272  
all docs

272  
docs citations

272  
times ranked

18067  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-Atom Au/NiFe Layered Double Hydroxide Electrocatalyst: Probing the Origin of Activity for Oxygen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 3876-3879.	13.7	817
2	Single-atom Catalysis Using Pt/Graphene Achieved through Atomic Layer Deposition. <i>Scientific Reports</i> , 2013, 3, .	3.3	719
3	The surface analytical characterization of carbon fibers functionalized by H <sub>2</sub> SO <sub>4</sub> /HNO <sub>3</sub> treatment. <i>Carbon</i> , 2008, 46, 196-205.	10.3	494
4	High-Performance Reversible Aqueous Zn-Ion Battery Based on Porous MnO <sub>x</sub> Nanorods Coated by MOF-Derived N-Doped Carbon. <i>Advanced Energy Materials</i> , 2018, 8, 1801445.	19.5	430
5	A Highly Durable Platinum Nanocatalyst for Proton Exchange Membrane Fuel Cells: Multiarmed Starlike Nanowire Single Crystal. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 422-426.	13.8	344
6	Nitric oxide suppresses NLRP3 inflammasome activation and protects against LPS-induced septic shock. <i>Cell Research</i> , 2013, 23, 201-212.	12.0	324
7	Controlled Growth of Pt Nanowires on Carbon Nanospheres and Their Enhanced Performance as Electrocatalysts in PEM Fuel Cells. <i>Advanced Materials</i> , 2008, 20, 3900-3904.	21.0	318
8	A specific demetalation of Fe <sup>IV</sup> catalytic sites in the micropores of NC <sub>Ar</sub> + NH <sub>3</sub> is at the origin of the initial activity loss of the highly active Fe/N/C catalyst used for the reduction of oxygen in PEM fuel cells. <i>Energy and Environmental Science</i> , 2018, 11, 365-382.	30.8	280
9	Raman scattering study of rutile SnO <sub>2</sub> nanobelts synthesized by thermal evaporation of Sn powders. <i>Chemical Physics Letters</i> , 2003, 376, 103-107.	2.6	238
10	Template- and Surfactant-free Room Temperature Synthesis of Self-Assembled 3D Pt Nanoflowers from Single-Crystal Nanowires. <i>Advanced Materials</i> , 2008, 20, 571-574.	21.0	232
11	Is iron involved in the lack of stability of Fe/N/C electrocatalysts used to reduce oxygen at the cathode of PEM fuel cells?. <i>Nano Energy</i> , 2016, 29, 111-125.	16.0	232
12	Noble metals-TiO <sub>2</sub> nanocomposites: From fundamental mechanisms to photocatalysis, surface enhanced Raman scattering and antibacterial applications. <i>Applied Materials Today</i> , 2018, 11, 82-135.	4.3	231
13	Nanoporous Al <sub>0.5</sub> Ni <sub>0.5</sub> Co <sub>0.5</sub> Mo High-Entropy Alloy for Record-High Water Splitting Activity in Acidic Environments. <i>Small</i> , 2019, 15, e1904180.	10.0	230
14	Noble Metal-Free Nanoporous High-Entropy Alloys as Highly Efficient Electrocatalysts for Oxygen Evolution Reaction. , 2019, 1, 526-533.		229
15	Nanoporous high-entropy alloys for highly stable and efficient catalysts. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6499-6506.	10.3	215
16	The New Graphene Family Materials: Synthesis and Applications in Oxygen Reduction Reaction. <i>Catalysts</i> , 2017, 7, 1.	3.5	201
17	Advanced Phosphorus-Based Materials for Lithium/Sodium-Ion Batteries: Recent Developments and Future Perspectives. <i>Advanced Energy Materials</i> , 2018, 8, 1703058.	19.5	197
18	Nitrogen-Doped Carbon Nanotube and Graphene Materials for Oxygen Reduction Reactions. <i>Catalysts</i> , 2015, 5, 1574-1602.	3.5	183

#	ARTICLE	IF	CITATIONS
19	Rational design of multifunctional air electrodes for rechargeable Zn-Air batteries: Recent progress and future perspectives. <i>Energy Storage Materials</i> , 2019, 21, 253-286.	18.0	171
20	Efficient and stable tandem luminescent solar concentrators based on carbon dots and perovskite quantum dots. <i>Nano Energy</i> , 2018, 50, 756-765.	16.0	170
21	Stabilizing lithium metal anode by octaphenyl polyoxyethylene-lithium complexation. <i>Nature Communications</i> , 2020, 11, 643.	12.8	161
22	Single-Atom Catalysts for Electrochemical Hydrogen Evolution Reaction: Recent Advances and Future Perspectives. <i>Nano-Micro Letters</i> , 2020, 12, 21.	27.0	159
23	Synthesis and optical properties of S-doped ZnO nanowires. <i>Applied Physics Letters</i> , 2003, 82, 4791-4793.	3.3	154
24	Metal-organic framework derived carbon materials for electrocatalytic oxygen reactions: Recent progress and future perspectives. <i>Carbon</i> , 2020, 156, 77-92.	10.3	149
25	Ultra-long life rechargeable zinc-air battery based on high-performance trimetallic nitride and NCNT hybrid bifunctional electrocatalysts. <i>Nano Energy</i> , 2019, 61, 86-95.	16.0	134
26	Progress and Challenges Toward the Rational Design of Oxygen Electrocatalysts Based on a Descriptor Approach. <i>Advanced Science</i> , 2020, 7, 1901614.	11.2	133
27	Oxygen reduction to hydrogen peroxide on Fe <sub>3</sub> O <sub>4</sub> nanoparticles supported on Printex carbon and Graphene. <i>Electrochimica Acta</i> , 2015, 162, 263-270.	5.2	132
28	Cellulose Nanofibers/Reduced Graphene Oxide/Polypyrrole Aerogel Electrodes for High-Capacitance Flexible All-Solid-State Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11175-11185.	6.7	127
29	Surface engineering by doping manganese into cobalt phosphide towards highly efficient bifunctional HER and OER electrocatalysis. <i>Applied Surface Science</i> , 2020, 515, 146059.	6.1	126
30	Ultra-High Initial Coulombic Efficiency Induced by Interface Engineering Enables Rapid, Stable Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11481-11486.	13.8	124
31	Chemical Structure of Nitrogen-Doped Graphene with Single Platinum Atoms and Atomic Clusters as a Platform for the PEMFC Electrode. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3890-3900.	3.1	121
32	Electrochemical synthesis of copper nanowires. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 355-363.	1.8	119
33	Direct Growth of Single-Crystal Pt Nanowires on Sn@CNT Nanocable: 3D Electrodes for Highly Active Electrocatalysts. <i>Chemistry - A European Journal</i> , 2010, 16, 829-835.	3.3	117
34	Self-Templated Hierarchically Porous Carbon Nanorods Embedded with Atomic Fe <sub>4</sub> Active Sites as Efficient Oxygen Reduction Electrocatalysts in Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2021, 31, 2008085.	14.9	117
35	Atomically Dispersed Transition Metal-Nitrogen-Carbon Bifunctional Oxygen Electrocatalysts for Zinc-Air Batteries: Recent Advances and Future Perspectives. <i>Nano-Micro Letters</i> , 2022, 14, 36.	27.0	117
36	Heavy metal-free, near-infrared colloidal quantum dots for efficient photoelectrochemical hydrogen generation. <i>Nano Energy</i> , 2017, 31, 441-449.	16.0	116

#	ARTICLE	IF	CITATIONS
37	Indiscrete metal/metal-N-C synergic active sites for efficient and durable oxygen electrocatalysis toward advanced Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 272, 118967.	20.2	110
38	Accurate Control of Initial Coulombic Efficiency for Lithium-Rich Manganese-based Layered Oxides by Surface Multicomponent Integration. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23061-23066.	13.8	107
39	Pyrolysis of Self-Assembled Iron Porphyrin on Carbon Black as Core/Shell Structured Electrocatalysts for Highly Efficient Oxygen Reduction in Both Alkaline and Acidic Medium. <i>Advanced Functional Materials</i> , 2017, 27, 1604356.	14.9	106
40	Self-Reconstruction of Co/Co <sub>2</sub> P Heterojunctions Confined in N-Doped Carbon Nanotubes for Zinc-Air Flow Batteries. <i>ACS Energy Letters</i> , 0, , 1153-1161.	17.4	104
41	Electrosynthesis of Pd Single-Crystal Nanothorns and Their Application in the Oxidation of Formic Acid. <i>Chemistry of Materials</i> , 2008, 20, 6998-7002.	6.7	103
42	Well-Defined Nanostructures for Electrochemical Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2021, 11, 2001537.	19.5	102
43	Synthesis and Characterization of Platinum Nanowire-Carbon Nanotube Heterostructures. <i>Chemistry of Materials</i> , 2007, 19, 6376-6378.	6.7	100
44	Ultrathin Carbon-Coated Pt/Carbon Nanotubes: A Highly Durable Electrocatalyst for Oxygen Reduction. <i>Chemistry of Materials</i> , 2017, 29, 9579-9587.	6.7	100
45	High-entropy alloy stabilized active Ir for highly efficient acidic oxygen evolution. <i>Chemical Engineering Journal</i> , 2022, 431, 133251.	12.7	100
46	Rechargeable Zn-ion batteries with high power and energy densities: a two-electron reaction pathway in birnessite MnO <sub>2</sub> cathode materials. <i>Journal of Materials Chemistry A</i> , 2020, 8, 1975-1985.	10.3	99
47	Polymer gel electrolytes for flexible supercapacitors: Recent progress, challenges, and perspectives. <i>Energy Storage Materials</i> , 2021, 34, 320-355.	18.0	98
48	A General Carboxylate-Assisted Approach to Boost the ORR Performance of ZIF-Derived Fe/N/C Catalysts for Proton Exchange Membrane Fuel Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2009645.	14.9	98
49	Multi-component nanoporous alloy/(oxy)hydroxide for bifunctional oxygen electrocatalysis and rechargeable Zn-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118431.	20.2	96
50	Fe/Co Double Hydroxide/Oxide Nanoparticles on N-Doped CNTs as Highly Efficient Electrocatalyst for Rechargeable Liquid and Quasi-Solid State Zinc-Air Batteries. <i>Advanced Energy Materials</i> , 2018, 8, 1801836.	19.5	94
51	Near-Infrared, Heavy Metal-Free Colloidal Giant-Core/Shell Quantum Dots. <i>Advanced Energy Materials</i> , 2018, 8, 1701432.	19.5	90
52	Synthesis of hierarchical platinum-palladium-copper nanodendrites for efficient methanol oxidation. <i>Applied Catalysis B: Environmental</i> , 2017, 211, 205-211.	20.2	89
53	Engineering interfacial structure in Giant-PbS/CdS quantum dots for photoelectrochemical solar energy conversion. <i>Nano Energy</i> , 2016, 30, 531-541.	16.0	88
54	Morphology-Controlled Green Synthesis of Single Crystalline Silver Dendrites, Dendritic Flowers, and Rods, and Their Growth Mechanism. <i>Crystal Growth and Design</i> , 2011, 11, 2493-2499.	3.0	87

#	ARTICLE	IF	CITATIONS
55	Recent Developments of Planar Micro-Supercapacitors: Fabrication, Properties, and Applications. <i>Advanced Functional Materials</i> , 2020, 30, 1910000.	14.9	86
56	Porous Dendritic Platinum Nanotubes with Extremely High Activity and Stability for Oxygen Reduction Reaction. <i>Scientific Reports</i> , 2013, 3, 1526.	3.3	85
57	Graphitic-shell encapsulated FeNi alloy/nitride nanocrystals on biomass-derived carbon as an efficient electrocatalyst for rechargeable Zn-air battery. , 2021, 3, 176-187.		85
58	3D Porous Fe/N/C Spherical Nanostructures As High-Performance Electrocatalysts for Oxygen Reduction in Both Alkaline and Acidic Media. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 36944-36954.	8.0	83
59	Biomass-derived nonprecious metal catalysts for oxygen reduction reaction: The demand-oriented engineering of active sites and structures. , 2020, 2, 561-581.		83
60	Micro-Raman and infrared properties of SnO <sub>2</sub> nanobelts synthesized from Sn and SiO <sub>2</sub> powders. <i>Journal of Applied Physics</i> , 2003, 93, 1760-1763.	2.5	82
61	Porous hollow $\text{Fe}_2\text{O}_3/\text{TiO}_2$ core-shell nanospheres for superior lithium/sodium storage capability. <i>Journal of Materials Chemistry A</i> , 2015, 3, 13807-13818.	10.3	82
62	SiO <sub>2</sub> -Fe/N/C catalyst with enhanced mass transport in PEM fuel cells. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118523.	20.2	81
63	Bioinspired Synthesis of Hierarchical Porous Graphitic Carbon Spheres with Outstanding High-Rate Performance in Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2015, 27, 336-342.	6.7	80
64	Interface Engineering of Ni <sub>x</sub> S <sub>y</sub> @MnO <sub>x</sub> H <sub>y</sub> Nanorods to Efficiently Enhance Overall-Water-Splitting Activity and Stability. <i>Nano-Micro Letters</i> , 2022, 14, 120.	27.0	79
65	An active and robust Si-Fe/N/C catalyst derived from waste reed for oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 85-93.	20.2	78
66	Aqueous Zn-based rechargeable batteries: Recent progress and future perspectives. <i>Information Materials</i> , 2022, 4, .	17.3	77
67	Large-scale synthesis of SnO <sub>2</sub> nanobelts. <i>Applied Physics A: Materials Science and Processing</i> , 2003, 76, 287-289.	2.3	75
68	MoSe <sub>2</sub> @CNT Core-Shell Nanostructures as Grain Promoters Featuring a Direct Li <sub>2</sub> O <sub>2</sub> Formation/Decomposition Catalytic Capability in Lithium-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003263.	19.5	75
69	Cobalt (II) oxide nanosheets with rich oxygen vacancies as highly efficient bifunctional catalysts for ultra-stable rechargeable Zn-air flow battery. <i>Nano Energy</i> , 2021, 79, 105409.	16.0	74
70	Zn nanobelts: a new quasi one-dimensional metal nanostructure. <i>Chemical Communications</i> , 2001, , 2632-2633.	4.1	71
71	A facile synthesis of Fe <sub>3</sub> O <sub>4</sub> nanoparticles/graphene for high-performance lithium/sodium-ion batteries. <i>RSC Advances</i> , 2016, 6, 16624-16633.	3.6	71
72	Rational design of novel nanostructured arrays based on porous AAO templates for electrochemical energy storage and conversion. <i>Nano Energy</i> , 2019, 55, 234-259.	16.0	71

#	ARTICLE	IF	CITATIONS
73	Cu Nanoclusters/FeN <sub>4</sub> Amorphous Composites with Dual Active Sites in N-Doped Graphene for High-Performance Zn-Air Batteries. ACS Applied Materials & Interfaces, 2020, 12, 31340-31350.	8.0	71
74	Strategies for Engineering High-Performance PGM-Free Catalysts toward Oxygen Reduction and Evolution Reactions. Small Methods, 2020, 4, 2000016.	8.6	70
75	RRDE experiments on noble-metal and noble-metal-free catalysts: Impact of loading on the activity and selectivity of oxygen reduction reaction in alkaline solution. Applied Catalysis B: Environmental, 2017, 206, 115-126.	20.2	68
76	Non-PGM electrocatalysts for PEM fuel cells: effect of fluorination on the activity and stability of a highly active NC <sub>Ar</sub> + NH <sub>3</sub> catalyst. Energy and Environmental Science, 2019, 12, 3015-3037.	30.8	66
77	Novel rare earth metal-doped one-dimensional TiO <sub>2</sub> nanostructures: Fundamentals and multifunctional applications. Materials Today Sustainability, 2021, 13, 100066.	4.1	66
78	Ultrathin single crystal Pt nanowires grown on N-doped carbon nanotubes. Chemical Communications, 2009, , 7048.	4.1	63
79	Optoelectronic Properties in Near-Infrared Colloidal Heterostructured Pyramidal Giant-Core/Shell Quantum Dots. Advanced Science, 2018, 5, 1800656.	11.2	63
80	Delicate topotactic conversion of coordination polymers to Pd porous nanosheets for high-efficiency electrocatalysis. Applied Catalysis B: Environmental, 2019, 243, 86-93.	20.2	63
81	Flexible self-supported bi-metal electrode as a highly stable carbon- and binder-free cathode for large-scale solid-state zinc-air batteries. Applied Catalysis B: Environmental, 2020, 272, 118953.	20.2	62
82	Cobalt-Phthalocyanine-Derived Molecular Isolation Layer for Highly Stable Lithium Anode. Angewandte Chemie - International Edition, 2021, 60, 19852-19859.	13.8	62
83	A self-supported electrode as a high-performance binder- and carbon-free cathode for rechargeable hybrid zinc batteries. Energy Storage Materials, 2020, 24, 272-280.	18.0	61
84	Copper and gold recovery from CPU sockets by one-step slurry electrolysis. Journal of Cleaner Production, 2019, 213, 673-679.	9.3	60
85	Electrochemical synthesis of ordered CdTe nanowire arrays. Applied Physics A: Materials Science and Processing, 2003, 76, 537-539.	2.3	58
86	Template synthesis of Y-junction metal nanowires. Applied Physics A: Materials Science and Processing, 2002, 74, 403-406.	2.3	57
87	A novel and efficient ammonia leaching method for recycling waste lithium ion batteries. Journal of Cleaner Production, 2020, 251, 119665.	9.3	56
88	An Emerging Energy Storage System: Advanced Na-Se Batteries. ACS Nano, 2021, 15, 5876-5903.	14.6	56
89	Stacking faults created by the combined deflection of threading dislocations of Burgers vector c and c+a during the physical vapor transport growth of 4H-SiC. Applied Physics Letters, 2011, 98, .	3.3	55
90	Advances and perspectives on transitional metal layered oxides for potassium-ion battery. Energy Storage Materials, 2021, 34, 211-228.	18.0	55

#	ARTICLE	IF	CITATIONS
91	MnO <sub>x</sub> -Decorated Nickel-Iron Phosphides Nanosheets: Interface Modifications for Robust Overall Water Splitting at Ultra-High Current Densities. <i>Small</i> , 2022, 18, e2105803.	10.0	55
92	Litchi-like porous Fe/N/C spheres with atomically dispersed FeN <sub>x</sub> promoted by sulfur as highly efficient oxygen electrocatalysts for Zn-air batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 4605-4610.	10.3	54
93	TiSi <sub>2</sub> O <sub>x</sub> Coated N-Doped Carbon Nanotubes as Pt Catalyst Support for the Oxygen Reduction Reaction in PEMFCs. <i>Journal of Physical Chemistry C</i> , 2013, 117, 15457-15467.	3.1	53
94	Rational Design of Novel Catalysts with Atomic Layer Deposition for the Reduction of Carbon Dioxide. <i>Advanced Energy Materials</i> , 2019, 9, 1900889.	19.5	53
95	In Situ Fabrication of Electrospun Carbon Nanofibers-Binary Metal Sulfides as Freestanding Electrode for Electrocatalytic Water Splitting. <i>Advanced Fiber Materials</i> , 2021, 3, 117-127.	16.1	53
96	Phosphor Polymer Nanocomposite: ZnO:Tb <sup>3+</sup> Embedded Polystyrene Nanocomposite Thin Films for Solid-State Lighting Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 977-988.	5.0	51
97	Controlled Growth of SnO <sub>2</sub> Hierarchical Nanostructures by a Multistep Thermal Vapor Deposition Process. <i>Chemistry - A European Journal</i> , 2007, 13, 9087-9092.	3.3	50
98	Laser-Induced Selective Metallization on Polymer Substrates Using Organocopper for Portable Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13714-13723.	8.0	50
99	Regenerative fuel cells: Recent progress, challenges, perspectives and their applications for space energy system. <i>Applied Energy</i> , 2021, 283, 116376.	10.1	50
100	General Synthesis of Transition-Metal-Based Carbon-Group Intermetallic Catalysts for Efficient Electrocatalytic Hydrogen Evolution in Wide pH Range. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	50
101	Three-dimensional interconnected network few-layered MoS <sub>2</sub> /N, S co-doped graphene as anodes for enhanced reversible lithium and sodium storage. <i>Electrochimica Acta</i> , 2019, 293, 47-59.	5.2	49
102	Atomically Dispersed Fe-Co Bimetallic Catalysts for the Promoted Electroreduction of Carbon Dioxide. <i>Nano-Micro Letters</i> , 2022, 14, 25.	27.0	49
103	Controlled Growth and Optical Properties of One-Dimensional ZnO Nanostructures on SnO <sub>2</sub> Nanobelts. <i>Crystal Growth and Design</i> , 2007, 7, 1988-1991.	3.0	47
104	Engineering of electrocatalyst/electrolyte interface for ambient ammonia synthesis. <i>SusMat</i> , 2021, 1, 150-173.	14.9	47
105	Nanostructured Metal Borides for Energy-Related Electrocatalysis: Recent Progress, Challenges, and Perspectives. <i>Small Methods</i> , 2021, 5, e2100699.	8.6	47
106	A Facile Route for the Self-Organized High-Density Decoration of Pt Nanoparticles on Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 11717-11721.	3.1	46
107	Three growth modes and mechanisms for highly structure-tunable SnO <sub>2</sub> nanotube arrays of template-directed atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2011, 21, 12321.	6.7	46
108	Highly Functional Bioinspired Fe/N/C Oxygen Reduction Reaction Catalysts: Structure-Regulating Oxygen Sorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 6464-6471.	8.0	46

#	ARTICLE	IF	CITATIONS
109	Chemical vapour deposition of graphene: layer control, the transfer process, characterisation, and related applications. <i>International Reviews in Physical Chemistry</i> , 2019, 38, 149-199.	2.3	46
110	Efficient solar-driven hydrogen generation using colloidal heterostructured quantum dots. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14079-14088.	10.3	46
111	“Green”, gradient multi-shell CuInSe <sub>2</sub> /(CuInSexS <sub>1-x</sub> ) <sub>5</sub> /CuInS <sub>2</sub> quantum dots for photo-electrochemical hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119402.	20.2	46
112	Nanostructured Cobalt-Based Electrocatalysts for CO <sub>2</sub> Reduction: Recent Progress, Challenges, and Perspectives. <i>Small</i> , 2020, 16, e2004158.	10.0	45
113	2D SnSe Cathode Catalyst Featuring an Efficient Facet-Dependent Selective Li <sub>2</sub> O <sub>2</sub> Growth/Decomposition for Li-Oxygen Batteries. <i>Advanced Energy Materials</i> , 2022, 12, .	19.5	45
114	Identifying the descriptor governing NO oxidation on mullite Sm(Y, Tb, Gd), Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (Lu)Mn <sub>2</sub> 2016, 6, 3971-3975.	4.1	44
115	Heterostructured quantum dot architectures for efficient and stable photoelectrochemical hydrogen production. <i>Journal of Materials Chemistry A</i> , 2018, 6, 6822-6829.	10.3	44
116	B-site modified photoferroic Cr <sup>3+</sup> -doped barium titanate nanoparticles: microwave-assisted hydrothermal synthesis, photocatalytic and electrochemical properties. <i>RSC Advances</i> , 2019, 9, 20806-20817.	3.6	44
117	Iron (II) phthalocyanine/N-doped graphene: A highly efficient non-precious metal catalyst for oxygen reduction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18103-18114.	7.1	44
118	Interfacial engineering in colloidal “giant”-quantum dots for high-performance photovoltaics. <i>Nano Energy</i> , 2019, 55, 377-388.	16.0	44
119	Morphology controllable growth of Pt nanoparticles/nanowires on carbon powders and its application as novel electro-catalyst for methanol oxidation. <i>Nanoscale</i> , 2011, 3, 5041.	5.6	43
120	Ferroelectric Fe-Cr Codoped BaTiO <sub>3</sub> Nanoparticles for the Photocatalytic Oxidation of Azo Dyes. <i>ACS Applied Nano Materials</i> , 2019, 2, 2890-2901.	5.0	43
121	Efficient and stable photoelectrochemical hydrogen generation using optimized colloidal heterostructured quantum dots. <i>Nano Energy</i> , 2021, 79, 105416.	16.0	43
122	Y-branched Bi nanowires with metal-semiconductor junction behavior. <i>Applied Physics Letters</i> , 2004, 85, 967-969.	3.3	42
123	Nanocellulose-assisted synthesis of ultrafine Co nanoparticles-loaded bimodal micro-mesoporous N-rich carbon as bifunctional oxygen electrode for Zn-air batteries. <i>Journal of Power Sources</i> , 2020, 450, 227640.	7.8	42
124	Defect Electrocatalysts and Alkaline Electrolyte Membranes in Solid-State Zinc-Air Batteries: Recent Advances, Challenges, and Future Perspectives. <i>Small Methods</i> , 2021, 5, e2000868.	8.6	42
125	Ni/Mn and Al Dual Concentration-Gradients To Mitigate Voltage Decay and Capacity Fading of Li-Rich Layered Cathodes. <i>ACS Energy Letters</i> , 2021, 6, 2755-2764.	17.4	42
126	Nanostructured Mn <sub>2</sub> O <sub>3</sub> /Pt/CNTs selective electrode for oxygen reduction reaction and methanol tolerance in mixed-reactant membraneless micro-DMFC. <i>Electrochimica Acta</i> , 2019, 297, 230-239.	5.2	41



#	ARTICLE	IF	CITATIONS
127	Heterostructural coaxial nanotubes of CNT@Fe <sub>2</sub> O <sub>3</sub> via atomic layer deposition: effects of surface functionalization and nitrogen-doping. <i>Journal of Nanoparticle Research</i> , 2011, 13, 1207-1218.	1.9	40
128	Epitaxial Bi <sub>2</sub> FeCrO <sub>6</sub> Multiferroic Thin-Film Photoanodes with Ultrathin p-Type NiO Layers for Improved Solar Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 13185-13193.	8.0	40
129	Crack-tips enriched platinum-copper superlattice nanoflakes as highly efficient anode electrocatalysts for direct methanol fuel cells. <i>Nanoscale</i> , 2017, 9, 8918-8924.	5.6	39
130	Controlled synthesis of graphene via electrochemical route and its use as efficient metal-free catalyst for oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 373-380.	20.2	39
131	Copper extraction from waste printed circuit boards by glycine. <i>Separation and Purification Technology</i> , 2020, 253, 117463.	7.9	39
132	Synergistic Effect of Plasmonic Gold Nanoparticles Decorated Carbon Nanotubes in Quantum Dots/TiO <sub>2</sub> for Optoelectronic Devices. <i>Advanced Science</i> , 2020, 7, 2001864.	11.2	39
133	N, P-Codoped Graphene Dots Supported on N-Doped 3D Graphene as Metal-Free Catalysts for Oxygen Reduction. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 30512-30523.	8.0	39
134	Preparation and characterization of oriented silica nanowires. <i>Solid State Communications</i> , 2003, 128, 287-290.	1.9	38
135	Rational design of carbon-based oxygen electrocatalysts for zinc-air batteries. <i>Current Opinion in Electrochemistry</i> , 2017, 4, 45-59.	4.8	38
136	Highly stable photoelectrochemical cells for hydrogen production using a SnO <sub>2</sub> -TiO <sub>2</sub> /quantum dot heterostructured photoanode. <i>Nanoscale</i> , 2018, 10, 15273-15284.	5.6	38
137	Emerging applications of atomic layer deposition for the rational design of novel nanostructures for surface-enhanced Raman scattering. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1447-1471.	5.5	37
138	Transforming reed waste into a highly active metal-free catalyst for oxygen reduction reaction. <i>Nano Energy</i> , 2019, 62, 700-708.	16.0	37
139	Versatile Route To Fabricate Precious-Metal Phosphide Electrocatalyst for Acid-Stable Hydrogen Oxidation and Evolution Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11737-11744.	8.0	37
140	Electrode Engineering by Atomic Layer Deposition for Sodium-Ion Batteries: From Traditional to Advanced Batteries. <i>Advanced Functional Materials</i> , 2020, 30, 1906890.	14.9	36
141	Emerging applications of atomic layer deposition for lithium-sulfur and sodium-sulfur batteries. <i>Energy Storage Materials</i> , 2020, 26, 513-533.	18.0	36
142	PGM-Free Fe/N/C and Ultralow Loading Pt/C Hybrid Cathode Catalysts with Enhanced Stability and Activity in PEM Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 13739-13749.	8.0	36
143	Visible and Near-Infrared, Multiparametric, Ultrasensitive Nanothermometer Based on Dual-Emission Colloidal Quantum Dots. <i>ACS Photonics</i> , 2019, 6, 2479-2486.	6.6	35
144	Low-dimensional catalysts for oxygen reduction reaction. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 787-795.	4.4	35

#	ARTICLE	IF	CITATIONS
145	Synthesis of SnO <sub>2</sub> nanostructures by carbothermal reduction of SnO <sub>2</sub> powder. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 409-412.	2.8	34
146	Sox2 is translationally activated by eukaryotic initiation factor 4E in human glioma-initiating cells. <i>Biochemical and Biophysical Research Communications</i> , 2010, 397, 711-717.	2.1	34
147	Porous Carbon Membrane-Supported Atomically Dispersed Pyrrole-Type Fe/N <sub>4</sub> as Active Sites for Electrochemical Hydrazine Oxidation Reaction. <i>Small</i> , 2020, 16, e2002203.	10.0	34
148	Plasma nitriding induced growth of Pt-nanowire arrays as high performance electrocatalysts for fuel cells. <i>Scientific Reports</i> , 2014, 4, 6439.	3.3	33
149	Aligned copper nanorod arrays for highly efficient generation of intense ultra-broadband THz pulses. <i>Scientific Reports</i> , 2017, 7, 40058.	3.3	32
150	Design, fabrication and performance of a mixed-reactant membraneless micro direct methanol fuel cell stack. <i>Journal of Power Sources</i> , 2017, 371, 10-17.	7.8	32
151	Multi-metallic catalysts for the electroreduction of carbon dioxide: Recent advances and perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 155, 111922.	16.4	32
152	Development of Nb-Ti-Co alloy for high-performance hydrogen separating membrane. <i>Journal of Membrane Science</i> , 2018, 565, 411-424.	8.2	31
153	Incorporation of CeF <sub>3</sub> on single-atom dispersed Fe/N/C with oxophilic interface as highly durable electrocatalyst for proton exchange membrane fuel cell. <i>Journal of Catalysis</i> , 2019, 374, 43-50.	6.2	31
154	Photoluminescence of ZnO nanoparticles loaded into porous anodic alumina hosts. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 12651-12656.	1.8	30
155	Ultras-small Nanoplatelets: The Ultimate Tuning of Optoelectronic Properties. <i>Advanced Energy Materials</i> , 2017, 7, 1602728.	19.5	30
156	Graphene-Supported Substoichiometric Sodium Tantalate as a Methanol-Tolerant, Non-Noble Metal Catalyst for the Electroreduction of Oxygen. <i>ChemCatChem</i> , 2015, 7, 911-915.	3.7	29
157	Completely separating metals and nonmetals from waste printed circuit boards by slurry electrolysis. <i>Separation and Purification Technology</i> , 2018, 205, 302-307.	7.9	29
158	Effect of electrolyte reuse on metal recovery from waste CPU slots by slurry electrolysis. <i>Waste Management</i> , 2019, 95, 370-376.	7.4	29
159	Electronic Metal-Support Interaction Modulation of Single-Atom Electrocatalysts for Rechargeable Zinc-Air Batteries. <i>Small Methods</i> , 2022, 6, e2100947.	8.6	29
160	Microscopy Study of the Growth Process and Structural Features of Closely Packed Silica Nanowires. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13029-13032.	2.6	28
161	Defect Engineering of Carbon-based Electrocatalysts for Rechargeable Zinc-Air Batteries. <i>Chemistry - an Asian Journal</i> , 2020, 15, 3737-3751.	3.3	28
162	Electrocatalytic Oxygen Evolution Reaction in Acidic Conditions: Recent Progress and Perspectives. <i>ChemSusChem</i> , 2021, 14, 4636-4657.	6.8	28

#	ARTICLE	IF	CITATIONS
163	Formation of a Porous Platinum Nanoparticle Froth for Electrochemical Applications, Produced without Templates, Surfactants, or Stabilizers. <i>Chemistry of Materials</i> , 2008, 20, 4677-4681.	6.7	27
164	Stem-like nano-heterostructural MWCNTs/±-Fe <sub>2</sub> O <sub>3</sub> @TiO <sub>2</sub> composite with high lithium storage capability. <i>Journal of Alloys and Compounds</i> , 2016, 684, 419-427.	5.5	27
165	Rare-earth metal oxide hybridized PtFe nanocrystals synthesized via microfluidic process for enhanced electrochemical catalytic performance. <i>Electrochimica Acta</i> , 2019, 299, 80-88.	5.2	27
166	Highly Stable and Active Pt/Nb-TiO <sub>2</sub> /Carbon-Free Electrocatalyst for Proton Exchange Membrane Fuel Cells. <i>Journal of Nanotechnology</i> , 2012, 2012, 1-8.	3.4	26
167	Exploiting a High-Performance “Double-Carbon” Structure Co <sub>9</sub> S <sub>8</sub> /GN Bifunctional Catalysts for Rechargeable Zn-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 38202-38210.	8.0	26
168	Design and engineering of graphene nanostructures as independent solar-driven photocatalysts for emerging applications in the field of energy and environment. <i>Molecular Systems Design and Engineering</i> , 2022, 7, 213-238.	3.4	26
169	Green synthesis of near infrared core/shell quantum dots for photocatalytic hydrogen production. <i>Nanotechnology</i> , 2016, 27, 495405.	2.6	25
170	Morphology controlled synthesis of SmMn <sub>2</sub> O <sub>5</sub> nanocrystals via a surfactant-free route for Zn-air batteries. <i>Journal of Power Sources</i> , 2018, 396, 754-763.	7.8	25
171	Non-PGM Electrocatalysts for PEM Fuel Cells: Thermodynamic Stability and DFT Evaluation of Fluorinated FeN <sub>4</sub> -Based ORR Catalysts. <i>Journal of the Electrochemical Society</i> , 2019, 166, F3277-F3286.	2.9	25
172	A semi-scaled experiment for metals separating and recovering from waste printed circuit boards by slurry electrolysis. <i>Chemical Engineering Research and Design</i> , 2021, 147, 37-44.	5.6	25
173	In-situ Silica Xerogel Assisted Facile Synthesis of Fe-N Catalysts with Dense Fe-N Active Sites for Efficient Oxygen Reduction. <i>Small</i> , 2022, 18, e2104934.	10.0	25
174	Fabrication and evaluation of passive alkaline membraneless microfluidic DMFC. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 21969-21975.	7.1	24
175	Plasmon enhanced upconverting core@triple-shell nanoparticles as recyclable panchromatic initiators (blue to infrared) for radical polymerization. <i>Nanoscale Horizons</i> , 2019, 4, 907-917.	8.0	24
176	Photocatalytic interlayer spacing adjustment of a graphene oxide/zinc oxide hybrid membrane for efficient water filtration. <i>Desalination</i> , 2020, 475, 114174.	8.2	24
177	Blue-light emission from amorphous SiO <sub>x</sub> nanopores. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 74, 831-833.	2.3	22
178	Basal plane dislocation multiplication via the Hopping Frank-Read source mechanism in 4H-SiC. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	22
179	Response of soil microbial community structure to increased precipitation and nitrogen addition in a semiarid meadow steppe. <i>European Journal of Soil Science</i> , 2017, 68, 524-536.	3.9	22
180	Nanofiber-supported CuS nanoplatelets as high efficiency counter electrodes for quantum dot-based photoelectrochemical hydrogen production. <i>Materials Chemistry Frontiers</i> , 2017, 1, 65-72.	5.9	22

#	ARTICLE	IF	CITATIONS
181	Red phosphorus confined in N-doped multi-cavity mesoporous carbon for ultrahigh-performance sodium-ion batteries. <i>Journal of Power Sources</i> , 2020, 450, 227696.	7.8	22
182	Proton Exchange Membrane (PEM) Fuel Cells with Platinum Group Metal (PGM)-Free Cathode. <i>Automotive Innovation</i> , 2021, 4, 131-143.	5.1	22
183	Novel sinomenine derivative 1032 improves immune suppression in experimental autoimmune encephalomyelitis. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 1093-1098.	2.1	21
184	Use of a bilayer platinum-silver cathode to selectively perform the oxygen reduction reaction in a high concentration mixed-reactant microfluidic direct ethanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 18372-18381.	7.1	21
185	Graphene oxide/cobalt-based nanohybrid electrodes for robust hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 167-176.	20.2	21
186	Engineering of a Low-Cost, Highly Active, and Durable Tantalate-Graphene Hybrid Electrocatalyst for Oxygen Reduction. <i>Advanced Energy Materials</i> , 2020, 10, 2000075.	19.5	21
187	Thermodynamically driven metal diffusion strategy for controlled synthesis of high-entropy alloy electrocatalysts. <i>Chemical Communications</i> , 2021, 57, 10027-10030.	4.1	21
188	Step-shaped bismuth nanowires with metal-semiconductor junction characteristics. <i>Nanotechnology</i> , 2006, 17, 1041-1045.	2.6	20
189	Near-Infrared Colloidal Manganese-Doped Quantum Dots: Photoluminescence Mechanism and Temperature Response. <i>ACS Photonics</i> , 2019, 6, 2421-2431.	6.6	20
190	Enhanced Photocurrent Generation in Proton-Irradiated Giant CdSe/CdS Core/Shell Quantum Dots. <i>Advanced Functional Materials</i> , 2019, 29, 1904501.	14.9	20
191	Hybrid surface passivation of PbS/CdS quantum dots for efficient photoelectrochemical hydrogen generation. <i>Applied Surface Science</i> , 2020, 530, 147252.	6.1	20
192	Heterostructure design of Cu <sub>2</sub> O/Cu <sub>2</sub> S core/shell nanowires for solar-driven photothermal water vaporization towards desalination. <i>Sustainable Energy and Fuels</i> , 2020, 4, 6023-6029.	4.9	19
193	C F bonding in fluorinated N-Doped carbons. <i>Applied Surface Science</i> , 2022, 577, 151721.	6.1	19
194	Direct dimethyl ether fuel cells with low platinum-group-metal loading at anode: Investigations of operating temperatures and anode Pt/Ru ratios. <i>Journal of Power Sources</i> , 2019, 433, 126690.	7.8	18
195	LiFePO <sub>4</sub> -Graphene Composites as High-Performance Cathodes for Lithium-Ion Batteries: The Impact of Size and Morphology of Graphene. <i>Materials</i> , 2019, 12, 842.	2.9	18
196	Fe-N <sub>4</sub> Doped Carbon Nanotube Cathode Catalyst for PEM Fuel Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48923-48933.	8.0	18
197	Chemical and morphological characterizations of CoNi alloy nanoparticles formed by co-evaporation onto highly oriented pyrolytic graphite. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 16-21.	9.4	17
198	Controlled synthesis of near-infrared quantum dots for optoelectronic devices. <i>Nanoscale</i> , 2017, 9, 16843-16851.	5.6	17

#	ARTICLE	IF	CITATIONS
199	Ultra-High Initial Coulombic Efficiency Induced by Interface Engineering Enables Rapid, Stable Sodium Storage. <i>Angewandte Chemie</i> , 2021, 133, 11582-11587.	2.0	17
200	Large-Scale Aqueous Synthesis and Growth Mechanism of Single-Crystalline Metal Nanoscrolls at Room Temperature: The Case of Nickel. <i>Chemistry of Materials</i> , 2010, 22, 4721-4727.	6.7	16
201	Direct confirmation of confinement effects by NiO confined in helical SnO <sub>2</sub> nanocoils and its application in sensors. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2786-2794.	10.3	16
202	PtRu Alloy Nanoparticles. 2. Chemical and Electrochemical Surface Characterization for Methanol Oxidation. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23120-23128.	3.1	15
203	Effect of ionic liquid [MIm]HSO <sub>4</sub> on WPCB metal-enriched scraps refined by slurry electrolysis. <i>Environmental Science and Pollution Research</i> , 2019, 26, 33260-33268.	5.3	15
204	Cu/S-Occupation Bifunctional Oxygen Catalysts for Advanced Rechargeable Zinc-Air Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 52836-52844.	8.0	15
205	Phosphorus-Doped Graphene Electrocatalysts for Oxygen Reduction Reaction. <i>Nanomaterials</i> , 2022, 12, 1141.	4.1	15
206	Highly-ordered microporous carbon nanospheres: a promising anode for high-performance sodium-ion batteries. <i>RSC Advances</i> , 2016, 6, 84149-84154.	3.6	14
207	Ultra-small colloidal heavy-metal-free nanoplatelets for efficient hydrogen generation. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 234-241.	20.2	14
208	MoS <sub>2</sub> -supported on free-standing TiO <sub>2</sub> -nanotubes for efficient hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4468-4480.	7.1	14
209	NiS <sub>2</sub> nanosheet arrays on stainless steel foil as binder-free anode for high-power sodium-ion batteries. <i>Rare Metals</i> , 2022, 41, 1294-1303.	7.1	14
210	Nanocomposite-Decorated Filter Paper as a Twistable and Water-Tolerant Sensor for Selective Detection of 5 ppb-60 v/v% Ammonia. <i>ACS Sensors</i> , 2022, 7, 874-883.	7.8	14
211	Prospects of membraneless mixed-reactant microfluidic fuel cells: Evolution through numerical simulation. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110045.	16.4	13
212	Particle size effect on the photocatalytic kinetics of barium titanate powders. <i>Catalysis Science and Technology</i> , 2020, 10, 6274-6284.	4.1	13
213	The Deep Understanding into the Promoted Carbon Dioxide Electroreduction of ZIF <sub>8</sub> -Derived Single-Atom Catalysts by the Simple Grinding Process. <i>Small Structures</i> , 2022, 3, .	12.0	13
214	New Insight into the Conventional Replacement Reaction for the Large-Scale Synthesis of Various Metal Nanostructures and their Formation Mechanism. <i>Chemistry - A European Journal</i> , 2010, 16, 10630-10634.	3.3	12
215	Controlled Growth/Patterning of Ni Nanohoneycombs on Various Desired Substrates. <i>Langmuir</i> , 2010, 26, 4346-4350.	3.5	12
216	Multiphase Nb-TiCo alloys: The significant impact of surface corrosion on the structural stability and hydrogen permeation behaviour. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16684-16697.	7.1	12

#	ARTICLE	IF	CITATIONS
217	Synthesis of high performing Cu <sub>0.31</sub> Ni <sub>0.69</sub> O/rGO hybrid for oxygen reduction reaction in alkaline medium. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 13345-13353.	7.1	12
218	Isolated Palladium Atoms Dispersed on Silicoaluminophosphate-31 (SAPO-31) for the Semihydrogenation of Alkynes. <i>ACS Applied Nano Materials</i> , 2021, 4, 861-868.	5.0	11
219	Synthesis and optical absorption property of ordered macroporous titania film doped with Ag nanoparticles. <i>Materials Letters</i> , 2006, 60, 2586-2589.	2.6	10
220	Effect of acid-leaching on carbon-supported copper phthalocyanine tetrasulfonic acid tetrasodium salt (CuTSPc/C) for oxygen reduction reaction in alkaline electrolyte: active site studies. <i>RSC Advances</i> , 2015, 5, 50344-50352.	3.6	10
221	Polarization-independent two-dimensional diffraction metal-dielectric grating. <i>Applied Physics Letters</i> , 2018, 113, 041905.	3.3	10
222	A Lactate/Oxygen Biofuel Cell: The Coupled Lactate Oxidase Anode and PGM-Free Fe-N-C Cathode. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 42744-42750.	8.0	10
223	Cobalt-Phthalocyanine-Derived Molecular Isolation Layer for Highly Stable Lithium Anode. <i>Angewandte Chemie</i> , 2021, 133, 20005-20012.	2.0	10
224	Low-Cost, Air-Processed Quantum Dot Solar Cells via Diffusion-Controlled Synthesis. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 36301-36310.	8.0	9
225	Facile synthesis of Zr- and Ta-based catalysts for the oxygen reduction reaction. <i>Chinese Journal of Catalysis</i> , 2015, 36, 484-489.	14.0	8
226	Pt/TiSi <sub>x</sub> -NCNT Novel Janus Nanostructure: A New Type of High-Performance Electrocatalyst. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10771-10777.	8.0	8
227	Photochemical Synthesis of Radiate Titanium Oxide Microrods Arrays Supporting Platinum Nanoparticles for Photoassisted Electrooxidation of Methanol. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800748.	3.7	8
228	Recent Progress on Novel Ag-TiO <sub>2</sub> Nanocomposites for Antibacterial Applications. <i>Nanotechnology in the Life Sciences</i> , 2019, , 121-143.	0.6	8
229	Reduction-Responsive Sheddable Carbon Nanotubes Dispersed in Aqueous Solution. <i>Macromolecular Rapid Communications</i> , 2016, 37, 705-710.	3.9	7
230	Using aminopyrine as a nitrogen-enriched small molecule precursor to synthesize high-performing nitrogen doped mesoporous carbon for catalyzing oxygen reduction reaction. <i>RSC Advances</i> , 2017, 7, 669-677.	3.6	7
231	Nanostructured shrub-like bimetallic Pt <sub>x</sub> Rh <sub>100-x</sub> alloys grown on carbon paper for the oxidative removal of adsorbed carbon monoxide for ethanol fuel cells reaction. <i>Electrochimica Acta</i> , 2020, 355, 136823.	5.2	7
232	Reply to the "Comment on "Non-PGM electrocatalysts for PEM fuel cells: effect of fluorination on the activity and stability of a highly active NC <sub>Ar</sub> + NH <sub>3</sub> catalyst" by Xi Yin, Edward F. Holby and Piotr Zelenay, <i>Energy Environ. Sci.</i> , 10.1039/D0EE02069A. <i>Energy and Environmental Science</i> , 2021, 14, 1034-1041.	30.8	7
233	Non-PGM Electrocatalysts for PEM Fuel Cells: Thermodynamic Stability of Potential ORR Co <sub>Nx</sub> -C Electrocatalytic Sites. <i>Journal of the Electrochemical Society</i> , 2021, 168, 094502.	2.9	7
234	Non-PGM Electrocatalysts for PEM Fuel Cells: A DFT Study on the Effects of Fluorination of Fe <sub>Nx</sub> -Doped and N-Doped Carbon Catalysts. <i>Molecules</i> , 2021, 26, 7370.	3.8	7

#	ARTICLE	IF	CITATIONS
235	General Carbon-Supporting Strategy to Boost the Oxygen Reduction Activity of Zeolitic-Imidazolate-Framework-Derived Fe/N/Carbon Catalysts in Proton Exchange Membrane Fuel Cells. ACS Applied Materials & Interfaces, 2022, 14, 30724-30734.	8.0	7
236	DFT and 2D-CA methods unravelling the mechanism of interfacial interaction between amino acids and Ca-montmorillonite. Applied Clay Science, 2019, 183, 105356.	5.2	6
237	Self-Assembly of Water-Soluble Glutathione Thiol-Capped n-Hematite $\epsilon$ - $\gamma$ -Zn-Ferrites (X = Mg, Mn, or Tj) ETQq <sub>1</sub> 1 0.784314 rgBT	3.1	5
238	Competitive Adsorption of Uranyl and Toxic Trace Metal Ions at MFe <sub>2</sub> O <sub>4</sub> -montmorillonite (M = Mn, Fe,) Tj ETQq <sub>0</sub> 0,0,rgBT /Oylock 10	1.3	5
239	Graphene oxide/reduced graphene oxide films as protective barriers on lead against differential aeration corrosion induced by water drops. Nanoscale Advances, 2020, 2, 5412-5420.	4.6	5
240	Ultrafast Plasma Electron Dynamics: A Route to Terahertz Pulse Shaping. Physical Review Applied, 2020, 13, .	3.8	5
241	SYNTHESIS, RHEOLOGICAL BEHAVIOR, AND MECHANICAL PROPERTIES OF GRAFT-TYPE ACS RESIN. Polymer-Plastics Technology and Engineering, 2002, 41, 863-876.	1.9	5
242	Magnetoelastic Interactions at Surfaces and Interfaces. Materials Research Society Symposia Proceedings, 1991, 231, 485.	0.1	4
243	Structure and properties of TiCuN coatings by HCD assisted AIP. Surface Engineering, 2016, 32, 223-228.	2.2	4
244	Biosynthesized magnetite-perovskite (XFe <sub>2</sub> O <sub>4</sub> -BiFeO <sub>3</sub> ) interfaces for toxic trace metal removal from aqueous solution. Ceramics International, 2018, 44, 21210-21220.	4.8	4
245	Two-Dimensional Protective Layers of MX <sub>3</sub> to Stabilize Lithium and Sodium Metal Anodes. ACS Applied Energy Materials, 2021, 4, 8653-8659.	5.1	4
246	Morphology and mechanical properties of PA6/organoclay nanocomposites toughened by bulk rubber and core-shell rubber. Plastics, Rubber and Composites, 2015, 44, 339-344.	2.0	3
247	Plasma Synthesized Trilayered Rhodium~Platinum~Tin Oxide Nanostructures with Enhanced Tolerance to CO Poisoning and High Electroactivity for Ethanol Oxidation. Energy Technology, 2021, 9, 2000949.	3.8	3
248	3D Graphene and Its Nanocomposites: From Synthesis to Multifunctional Applications. Carbon Nanostructures, 2019, , 363-388.	0.1	3
249	Multi-factor principle for electrolyte additive molecule design for facilitating the development of electrolyte chemistry. Green Energy and Environment, 2022, 7, 1-2.	8.7	2
250	Synthesis of free-standing ternary Rh~Pt~Sn <sub>2</sub> -carbon nanotube nanostructures as a highly active and robust catalyst for ethanol oxidation. RSC Advances, 2020, 10, 45149-45158.	3.6	2
251	Micrometer-sized Si-Sn-O novel structures with SiONWs on their surfaces. Applied Physics A: Materials Science and Processing, 2003, 76, 999-1002.	2.3	1
252	Dynamic fracture behaviour of Fe <sub>78</sub> Si <sub>9</sub> B <sub>13</sub> metallic glass ribbon under laser shock loading. Fatigue and Fracture of Engineering Materials and Structures, 2014, 37, 508-516.	3.4	1

#	ARTICLE	IF	CITATIONS
253	Inadequate activation of the HBsAg-specific Th cells by APCs leads to hyporesponsiveness to HBsAg vaccine in B10.S mice. <i>Human Vaccines and Immunotherapeutics</i> , 2015, 11, 1735-1743.	3.3	1
254	One Step Synthesis of Me (Fe, Co, Ni) and Nitrogen co-doped Porous Graphene for ORR in Alkaline Electrolyte. <i>ECS Transactions</i> , 2016, 72, 169-175.	0.5	1
255	Advantages and Challenges of One-Dimensional Nanostructures for Fuel Cell Applications. , 2017, , 5-7.		1
256	Ultra Broadband THz and IR (0.1â€“200THz) Pulse Generation from Laser Plasma Interaction. , 2014, , .		0
257	Intense THz-coherent transition radiation from laser solid plasma interaction. , 2017, , .		0
258	Preparation of One-Dimensional Catalysts for Fuel Cell Applications. , 2017, , 9-18.		0
259	Electrocatalytic Performance of Reduced Graphene Oxide Based Materials for Oxygen Reduction Reaction (ORR). , 2017, , .		0
260	Co3O4/Reduced Graphene Oxide Composite as Electrocatalyst for Oxygen Reduction Reaction. , 2017, , .		0
261	Cobalt Hydroxide/Heteroatom Doped Graphene Composite as Electrocatalyst for Oxygen Reduction Reaction. , 2018, , .		0
262	6. Rational Design of Highly Efficient Non-precious Metal Catalysts for Oxygen Reduction in Fuel Cells and Metalâ€“Air Batteries. , 2019, , 161-182.		0
263	Optimization of High-Field THz Pulse Generation by the Interaction of High Intensity Lasers with Aligned Nanorod Targets. , 2018, , .		0