Yizhong Huang

List of Publications by Year
in descending order

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253 papers	12,464 citations	28190 55 h-index	31759 101 g-index
259 all docs	259 docs citations	259 times ranked	17738 citing authors

#	Article	IF	Citations
1	Synthesis of hexagonal close-packed gold nanostructures. Nature Communications, 2011, 2, 292.	5.8	553
2	Nickel Nanoparticles Encapsulated in Fewâ€Layer Nitrogenâ€Doped Graphene Derived from Metalâ€“Organic Frameworks as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. Advanced Materials, 2017, 29, 1605957.	11.1	507
3	Zeolitic Imidazolate Framework 67â€Derived High Symmetric Porous Co₃O₄ Hollow Dodecahedra with Highly Enhanced Lithium Storage Capability. Small, 2014, 10, 1932-1938.	5.2	442
4	MOF-templated formation of porous CuO hollow octahedra for lithium-ion battery anode materials. Journal of Materials Chemistry A, 2013, 1, 11126.	5.2	361
5	A Flexible Alkaline Rechargeable Ni/Fe Battery Based on Graphene Foam/Carbon Nanotubes Hybrid Film. Nano Letters, 2014, 14, 7180-7187.	4.5	346
6	Highâ€Performance Asymmetric Supercapacitors Based on Multilayer MnO₂/Graphene Oxide Nanoflakes and Hierarchical Porous Carbon with Enhanced Cycling Stability. Small, 2015, 11, 1310-1319.	5.2	326
7	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H₂ Evolution and CO₂ Reduction. ACS Sustainable Chemistry and Engineering, 2017, 5, 7260-7268.	3.2	322
8	GaAs/AlGaAs Nanowire Photodetector. Nano Letters, 2014, 14, 2688-2693.	4.5	256
9	Highly Efficient Restoration of Graphitic Structure in Graphene Oxide Using Alcohol Vapors. ACS Nano, 2010, 4, 5285-5292.	7.3	242
10	Investigation of microstructure and mechanical properties of Al6061-nanocomposite fabricated by stir casting. Materials & Design, 2014, 55, 921-928.	5.1	230
11	Interpenetrating interfaces for efficient perovskite solar cells with high operational stability and mechanical robustness. Nature Communications, 2021, 12, 973.	5.8	189
12	FeCo/FeCoNi/N-doped carbon nanotubes grafted polyhedron-derived hybrid fibers as bifunctional oxygen electrocatalysts for durable rechargeable zincâ€“air battery. Applied Catalysis B: Environmental, 2019, 254, 26-36.	10.8	183
13	Molten-salt-mediated synthesis of SiC nanowires for microwave absorption applications. CrystEngComm, 2013, 15, 570-576.	1.3	182
14	Largeâ€Area and Highâ€Quality 2D Transition Metal Telluride. Advanced Materials, 2017, 29, 1603471.	11.1	181
15	Ultrafine Metal Nanoparticles/Nâ€Doped Porous Carbon Hybrids Coated on Carbon Fibers as Flexible and Binderâ€Free Water Splitting Catalysts. Advanced Energy Materials, 2017, 7, 1700220.	10.2	156
16	Structure stability of metal-organic framework MIL-53 (Al) in aqueous solutions. International Journal of Hydrogen Energy, 2013, 38, 16710-16715.	3.8	153
17	Van der Waals negative capacitance transistors. Nature Communications, 2019, 10, 3037.	5.8	144
18	Novel fuel cell with nanocomposite functional layer designed by perovskite solar cell principle. Nano Energy, 2016, 19, 156-164.	8.2	137

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19	Exploring the impact of atomic lattice deformation on oxygen evolution reactions based on a sub-5 nm pure face-centred cubic high-entropy alloy electrocatalyst. Journal of Materials Chemistry A, 2020, 8, 11938-11947.	5.2	137
20	Graphene Oxideâ€Templated Synthesis of Ultrathin or Tadpoleâ€Shaped Au Nanowires with Alternating hcp and fcc Domains. Advanced Materials, 2012, 24, 979-983.	11.1	135
21	General Approach for MOF-Derived Porous Spinel AFe₂O₄ Hollow Structures and Their Superior Lithium Storage Properties. ACS Applied Materials & Interfaces, 2015, 7, 26751-26757.	4.0	133
22	Unraveling the Potassium Storage Mechanism in Graphite Foam. Advanced Energy Materials, 2019, 9, 1900579.	10.2	133
23	Controllable Growth of ZnO Nanostructures by a Simple Solvothermal Process. Journal of Physical Chemistry C, 2008, 112, 106-111.	1.5	132
24	Full Solutionâ€Processed Synthesis of All Metal Oxideâ€Based Treeâ€like Heterostructures on Fluorineâ€Doped Tin Oxide for Water Splitting. Advanced Materials, 2012, 24, 5374-5378.	11.1	131
25	Defective ultra-thin two-dimensional g-C3N4 photocatalyst for enhanced photocatalytic H2 evolution activity. Journal of Colloid and Interface Science, 2021, 581, 159-166.	5.0	125
26	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. Nature Communications, 2020, 11, 3729.	5.8	120
27	In situ Raman spectroscopy study of corrosion products on the surface of carbon steel in solution containing Clâ¯ and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msubsup><mml:mrow><mml:mtext>SO</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</m Engineering Failure Analysis, 2011, 18, 1981-1989.	1.8	116
28	Human Gait Recognition Using Patch Distribution Feature and Locality-Constrained Group Sparse Representation. IEEE Transactions on Image Processing, 2012, 21, 316-326.	6.0	116
29	Rapid Pseudocapacitive Sodiumâ€Ion Response Induced by 2D Ultrathin Tin Monoxide Nanoarrays. Advanced Functional Materials, 2017, 27, 1606232.	7.8	108
30	Polydopamine-assisted decoration of ZnO nanorods with Ag nanoparticles: an improved photoelectrochemical anode. Journal of Materials Chemistry A, 2013, 1, 5045-5052.	5.2	104
31	Synthesis of multimodal porous ZnCo2O4 and its electrochemical properties as an anode material for lithium ion batteries. Journal of Power Sources, 2015, 294, 112-119.	4.0	99
32	Manganese phosphate coated Li[Ni0.6Co0.2Mn0.2]O2 cathode material: Towards superior cycling stability at elevated temperature and high voltage. Journal of Power Sources, 2018, 402, 263-271.	4.0	99
33	Highly dispersed Au nanoparticles immobilized on Zr-based metalâ€“organic frameworks as heterostructured catalyst for CO oxidation. Journal of Materials Chemistry A, 2013, 1, 14294.	5.2	95
34	Transitionâ€Metalâ€Ionâ€Mediated Polymerization of Dopamine: Musselâ€Inspired Approach for the Facile Synthesis of Robust Transitionâ€Metal Nanoparticleâ€“Graphene Hybrids. Chemistry - A European Journal, 2014, 20, 7776-7783.	1.7	95
35	â€œElectron/Ion Spongeâ€•Like V-Based Polyoxometalate: Toward High-Performance Cathode for Rechargeable Sodium Ion Batteries. ACS Nano, 2017, 11, 6911-6920.	7.3	95
36	In vitro biodegradation of three brushite calcium phosphate cements by a macrophage cell-line. Biomaterials, 2006, 27, 4557-4565.	5.7	94

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37	Chemical Reaction Between Ag Nanoparticles and TCNQ Microparticles in Aqueous Solution. Small, 2011, 7, 1242-1246.	5.2	92
38	Semi-Supervised Dimension Reduction Using Trace Ratio Criterion. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 519-526.	7.2	91
39	Confining Tiny MoO₂ Clusters into Reduced Graphene Oxide for Highly Efficient Low Frequency Microwave Absorption. Small, 2020, 16, e2001686.	5.2	87
40	Photochemically Controlled Synthesis of Anisotropic Au Nanostructures: Platelet-like Au Nanorods and Six-Star Au Nanoparticles. ACS Nano, 2010, 4, 6196-6202.	7.3	82
41	Characterisation of titanium oxide film grown in 0.9% NaCl at different sweep rates. Electrochimica Acta, 2005, 51, 1099-1107.	2.6	78
42	Growth of Tapered SiC Nanowires on Flexible Carbon Fabric: Toward Field Emission Applications. Journal of Physical Chemistry C, 2012, 116, 12940-12945.	1.5	78
43	Hierarchically porous three-dimensional electrodes of CoMoO₄and ZnCo₂O₄and their high anode performance for lithium ion batteries. Nanoscale, 2014, 6, 10556.	2.8	77
44	Multi-channel FeP@C octahedra anchored on reduced graphene oxide nanosheet with efficient performance for lithium-ion batteries. Carbon, 2018, 139, 477-485.	5.4	75
45	One-pot sequential electrochemical deposition of multilayer poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonic acid)/tungsten trioxide hybrid films and their enhanced electrochromic properties. Journal of Materials Chemistry A, 2014, 2, 2708-2717.	5.2	74
46	High-Crystallinity Urchin-like VS₄ Anode for High-Performance Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 14727-14734.	4.0	74
47	Hybrid vertical graphene/lithium titanateâ€“CNTs arrays for lithium ion storage with extraordinary performance. Journal of Materials Chemistry A, 2017, 5, 8916-8921.	5.2	71
48	Enabling a Stable Room-Temperature Sodiumâ€“Sulfur Battery Cathode by Building Heterostructures in Multichannel Carbon Fibers. ACS Nano, 2021, 15, 5639-5648.	7.3	70
49	New insight into the roles of oxygen vacancies in hematite for solar water splitting. Physical Chemistry Chemical Physics, 2017, 19, 1074-1082.	1.3	69
50	A Bulk-Heterostructure Nanocomposite Electrolyte of Ce0.8Sm0.2O2-Î´â€“SrTiO3 for Low-Temperature Solid Oxide Fuel Cells. Nano-Micro Letters, 2021, 13, 46.	14.4	66
51	Self-assembled Cu-Ni bimetal oxide 3D in-plane epitaxial structures for highly efficient oxygen evolution reaction. Applied Catalysis B: Environmental, 2019, 244, 56-62.	10.8	62
52	Hierarchical three-dimensional Fe3O4@porous carbon matrix/graphene anodes for high performance lithium ion batteries. Electrochimica Acta, 2018, 260, 965-973.	2.6	61
53	A novel synthesis of carbon nanotubes directly from an indecomposable solid carbon source for electrochemical applications. Journal of Materials Chemistry A, 2016, 4, 2137-2146.	5.2	59
54	Rational design of intertwined carbon nanotubes threaded porous CoP@carbon nanocubes as anode with superior lithium storage. Carbon, 2019, 142, 269-277.	5.4	58

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55	Nanoscale ion intermixing induced activation of Fe₂O₃/MnO₂ composites for application in lithium ion batteries. Journal of Materials Chemistry A, 2017, 5, 8510-8518.	5.2	57
56	Nanostructured Metalâ€“Organic Conjugated Coordination Polymers with Ligand Tailoring for Superior Rechargeable Energy Storage. Small, 2019, 15, e1903188.	5.2	57
57	Sb-Induced Phase Control of InAsSb Nanowires Grown by Molecular Beam Epitaxy. Nano Letters, 2015, 15, 1109-1116.	4.5	55
58	Phase transition of hollow-porous Î±-Fe₂O₃ microsphere based anodes for lithium ion batteries during high rate cycling. Journal of Materials Chemistry A, 2016, 4, 16569-16575.	5.2	54
59	Preparation of Electrochemical Sensor Based on Zinc Oxide Nanoparticles for Simultaneous Determination of AA, DA, and UA. Frontiers in Chemistry, 2020, 8, 592538.	1.8	54
60	Characterization of corrosion products formed on the surface of carbon steel by Raman spectroscopy. Journal of Raman Spectroscopy, 2009, 40, 76-79.	1.2	53
61	Dependence of the corrosion behavior of aluminum alloy 7075 on the thin electrolyte layers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 162, 1-8.	1.7	53
62	A general approach towards multi-faceted hollow oxide composites using zeolitic imidazolate frameworks. Nanoscale, 2015, 7, 965-974.	2.8	53
63	High thermoelectric performance enabled by convergence of nested conduction bands in Pb7Bi4Se13 with low thermal conductivity. Nature Communications, 2021, 12, 4793.	5.8	53
64	Cadmium Sulfide Quantum Dots Supported on Gallium and Indium Oxide for Visibleâ€Lightâ€Driven Hydrogen Evolution from Water. ChemSusChem, 2014, 7, 2537-2544.	3.6	52
65	Templated formation of porous Mn 2 O 3 octahedra from Mn-MIL-100 for lithium-ion battery anode materials. Materials and Design, 2016, 98, 319-323.	3.3	52
66	Graphene reinforced nickel-based superalloy composites fabricated by additive manufacturing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 769, 138484.	2.6	52
67	A Depth-Profiling Study on the Solid Electrolyte Interface: Bis(fluorosulfuryl)imide Anion toward Improved K⁺ Storage. ACS Applied Energy Materials, 2019, 2, 7942-7951.	2.5	51
68	Cathodic plasma driven self-assembly of HEAs dendrites by pure single FCC FeCoNiMnCu nanoparticles as high efficient electrocatalysts for OER. Chemical Engineering Journal, 2021, 425, 131533.	6.6	51
69	Diffusion induced concave Co3O4@CoFe2O4 hollow heterostructures for high performance lithium ion battery anode. Energy Storage Materials, 2016, 4, 145-153.	9.5	50
70	Carbon supported Pt9Sn1 nanoparticles as an efficient nanocatalyst for glycerol oxidation. Applied Catalysis B: Environmental, 2016, 180, 78-85.	10.8	50
71	Engineering of cation and anion vacancies in Co3O4 thin nanosheets by laser irradiation for more advancement of oxygen evolution reaction. Nano Energy, 2021, 83, 105800.	8.2	50
72	Computational simulation of metastable pitting of stainless steel. Electrochimica Acta, 2009, 54, 6389-6395.	2.6	49

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73	Nanostructured CuO/C Hollow Shell@3D Copper Dendrites as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2018, 10, 23807-23812.	4.0	49
74	Hierarchical layered titanate microspherulite: formation by electrochemical spark discharge spallation and application in aqueous pollutant treatment. Journal of Materials Chemistry, 2010, 20, 10169.	6.7	48
75	Formation of VO2 zero-dimensional/nanoporous layers with large supercooling effects and enhanced thermochromic properties. RSC Advances, 2013, 3, 7124.	1.7	47
76	Highly Stable and Ultrahighâ€Rate Li Metal Anode Enabled by Fluorinated Carbon Fibers. Small, 2021, 17, e2006002.	5.2	47
77	Morphology controlled lithium storage in Li₃VO₄ anodes. Journal of Materials Chemistry A, 2018, 6, 456-463.	5.2	46
78	Well-aligned SiC nanoneedle arrays for excellent field emitters. Materials Letters, 2013, 91, 220-223.	1.3	44
79	Interface reaction between an electroless Niâ€“Coâ€“P metallization and Snâ€“3.5Ag lead-free solder with improved joint reliability. Acta Materialia, 2014, 71, 69-79.	3.8	44
80	Mechanistic Aspect of Non-Steady Electrochemical Characteristic During Stress Corrosion Cracking of an X70 Pipeline Steel in Simulated Underground Water. Corrosion, 2014, 70, 678-685.	0.5	43
81	The roles of lithium-philic giant nitrogen-doped graphene in protecting micron-sized silicon anode from fading. Scientific Reports, 2015, 5, 15665.	1.6	42
82	TEM investigation of intergranular stress corrosion cracking for 316 stainless steel in PWR environment. Acta Materialia, 2006, 54, 635-641.	3.8	41
83	Synthesis of Nanosize Powders and Thin Films of Yb-Doped YAG by Solâ^'Gel Methods. Chemistry of Materials, 2003, 15, 3474-3480.	3.2	40
84	Investigation of work softening mechanisms and texture in a hot deformed 6061 aluminum alloy at high temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 606, 240-247.	2.6	40
85	The Self-Passivation Mechanism in Degradation of BiVO4 Photoanode. IScience, 2019, 19, 976-985.	1.9	40
86	Conductivity Modulation of 3Dâ€Printed Shellular Electrodes through Embedding Nanocrystalline Intermetallics into Amorphous Matrix for Ultrahighâ€Current Oxygen Evolution. Advanced Energy Materials, 2021, 11, 2100968.	10.2	40
87	Porous and hollow NiO microspheres for high capacity and long-life anode materials of Li-ion batteries. Materials and Design, 2016, 92, 160-165.	3.3	39
88	High Thermoelectric Performance through Crystal Symmetry Enhancement in Triply Doped Diamondoid Compound Cu₂SnSe₃. Advanced Energy Materials, 2021, 11, 2100661.	10.2	39
89	Influence of pulsed laser deposition rate on the microstructure and thermoelectric properties of Ca3Co4O9 thin films. Journal of Crystal Growth, 2009, 311, 4123-4128.	0.7	38
90	Improving Photocatalytic H₂ Evolution of TiO₂ via Formation of {001}â€“{010} Quasi-Heterojunctions. Journal of Physical Chemistry C, 2013, 117, 22894-22902.	1.5	38

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91	Copper phosphide decorated g-C3N4 catalysts for highly efficient photocatalytic H2 evolution. Journal of Colloid and Interface Science, 2022, 610, 126-135.	5.0	37
92	Synthesis of metal sulfide sensitized zinc oxide-based core/shell/shell nanorods and their photoelectrochemical properties. Journal of Power Sources, 2014, 268, 388-396.	4.0	36
93	Phase controllable fabrication of zinc cobalt sulfide hollow polyhedra as high-performance electrocatalysts for the hydrogen evolution reaction. Nanoscale, 2018, 10, 1774-1778.	2.8	36
94	Enhancing the Electrochemical Performance of LiNi_{0.4}Co_{0.2}Mn_{0.4}O₂ by V₂O₅/LiV₃O₈ Coating. ACS Applied Materials & Interfaces, 2019, 11, 26994-27003.	4.0	36
95	Nitrogen configuration dependent holey active sites toward enhanced K+ storage in graphite foam. Journal of Power Sources, 2019, 419, 82-90.	4.0	36
96	High Performance Li Metal Anode Enabled by Robust Covalent Triazine Frameworkâ€Based Protective Layer. Advanced Functional Materials, 2021, 31, 2006159.	7.8	36
97	Effects of temperature on the chemistry and tribology of co-sputtered MoSx-Ti composite thin films. Thin Solid Films, 2005, 489, 137-144.	0.8	35
98	Phase Transformation of GeO₂ Glass to Nanocrystals under Ambient Conditions. Nano Letters, 2018, 18, 3290-3296.	4.5	35
99	Superior Li-ion storage of VS₄ nanowires anchored on reduced graphene. Nanoscale, 2019, 11, 9556-9562.	2.8	35
100	Effect of applied potentials on stress corrosion cracking of X70 pipeline steel in alkali solution. Materials & Design, 2009, 30, 2259-2263.	5.1	34
101	Preparation of site specific transmission electron microscopy plan-view specimens using a focused ion beam system. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2001, 19, 755.	1.6	33
102	Solution-processable semiconducting thin-film transistors using single-walled carbon nanotubes chemically modified by organic radical initiators. Chemical Communications, 2009, , 7182.	2.2	33
103	Synthesis of Porous Amorphous FePO₄ Nanotubes and Their Lithium Storage Properties. Chemistry - A European Journal, 2013, 19, 1568-1572.	1.7	33
104	Study on the correlation between passive film and AC corrosion behavior of 2507 super duplex stainless steel in simulated marine environment. Journal of Electroanalytical Chemistry, 2020, 864, 114072.	1.9	33
105	Atomically Dispersed Intrinsic Hollow Sites of Mâ€M₁â€M (M₁Â= Pt, Ir; MÂ= Fe, Co, Ni, Cu, Pt, Ir) on FeCoNiCuPtIr Nanocrystals Enabling Rapid Water Redox. Advanced Functional Materials, 2022, 32, .	7.8	33
106	Polyphenylene Dendrimerâ€Templated In Situ Construction of Inorganicâ€“Organic Hybrid Riceâ€Shaped Architectures. Advanced Functional Materials, 2010, 20, 43-49.	7.8	32
107	Direct evidence of passive film growth on 316 stainless steel in alkaline solution. Materials Characterization, 2017, 131, 168-174.	1.9	32
108	Probing the Performance Limitations in Thin-Film FeVO₄ Photoanodes for Solar Water Splitting. Journal of Physical Chemistry C, 2018, 122, 9773-9782.	1.5	32

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109	The significance of carbon on the microstructure of TiAlNC coatings deposited by reactive magnetron sputtering. Applied Surface Science, 2006, 253, 2470-2473.	3.1	31
110	Dualâ€Phase Titanate/Anatase with Nitrogen Doping for Enhanced Degradation of Organic Dye under Visible Light. Chemistry - A European Journal, 2011, 17, 2575-2578.	1.7	31
111	Oneâ€Step Solvothermal Synthesis of Singleâ€Crystalline TiOF₂ Nanotubes with High Lithiumâ€Ion Battery Performance. Chemistry - A European Journal, 2012, 18, 4026-4030.	1.7	31
112	Confinement of single polyoxometalate clusters in molecular-scale cages for improved flexible solid-state supercapacitors. Nanoscale, 2020, 12, 11887-11898.	2.8	31
113	Polysomatic apatites. Acta Crystallographica Section B: Structural Science, 2010, 66, 1-16.	1.8	30
114	Solution Growth of Ultralong Gold Nanohelices. ACS Nano, 2017, 11, 5538-5546.	7.3	30
115	Innovative development on a p-type delafossite CuCrO2 nanoparticles based triethylamine sensor. Sensors and Actuators B: Chemical, 2020, 324, 128743.	4.0	29
116	Preparation of transmission electron microscopy cross-section specimens of crack tips using focused ion beam milling. Journal of Microscopy, 2002, 207, 129-136.	0.8	28
117	Development of polyoxometalate-anchored 3D hybrid hydrogel for high-performance flexible pseudo-solid-state supercapacitor. Electrochimica Acta, 2020, 329, 135181.	2.6	28
118	Large Piezoelectricity and Ferroelectricity in Mnâ€Doped (Bi_{0.5}Na_{0.5})TiO₃â€BaTiO₃ Thin Film Prepared by Pulsed Laser Deposition. Journal of the American Ceramic Society, 2016, 99, 2347-2353.	1.9	27
119	Hollow Mesoporous Co(PO₃)₂@Carbon Polyhedra as High Performance Anode Materials for Lithium Ion Batteries. Journal of Physical Chemistry C, 2019, 123, 8599-8606.	1.5	27
120	Cobalt tungsten phosphide with tunable W-doping as highly efficient electrocatalysts for hydrogen evolution reaction. Nano Research, 2021, 14, 4073-4078.	5.8	27
121	Carbon spheres anchored Co3O4 nanoclusters as an efficient catalyst for dye degradation. Applied Catalysis A: General, 2016, 513, 106-115.	2.2	26
122	Improving solar water-splitting performance of LaTaON2 by bulk defect control and interface engineering. Applied Catalysis B: Environmental, 2018, 226, 111-116.	10.8	26
123	Macrophage-mediated biodegradation of poly(DL-lactide-co-glycolide)in vitro. Journal of Biomedical Materials Research - Part A, 2006, 79A, 582-590.	2.1	25
124	Facile â€œNeedleâ€Scratchingâ€•Method for Fast Catalyst Patterns Used for Largeâ€Scale Growth of Densely Aligned Singleâ€Walled Carbonâ€Nanotube Arrays. Small, 2009, 5, 2061-2065.	5.2	25
125	Controlled Synthesis of Doubleâ€Wall aâ€FePO₄ Nanotubes and their LIB Cathode Properties. Small, 2013, 9, 1036-1041.	5.2	25
126	Direct evidence of initial pitting corrosion. Electrochemistry Communications, 2008, 10, 1000-1004.	2.3	24

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127	A novel coreâ€“shell nanocomposite electrolyte for low temperature fuel cells. Journal of Power Sources, 2012, 201, 164-168.	4.0	24
128	Pt nanodendrites anchored on bamboo-shaped carbon nanofiber arrays as highly efficient electrocatalyst for oxygen reduction reaction. International Journal of Hydrogen Energy, 2013, 38, 16677-16684.	3.8	24
129	Recent review on electron transport layers in perovskite solar cells. International Journal of Energy Research, 2022, 46, 21441-21451.	2.2	24
130	Synthesis and photosensitivity of azobenzene functionalized hydroxypropylcellulose. RSC Advances, 2013, 3, 15909.	1.7	23
131	Nano-scale oxidation of copper in aqueous solution. Electrochemistry Communications, 2013, 26, 21-24.	2.3	23
132	The role of tin oxide surface defects in determining nanonet FET response to humidity and photoexcitation. Journal of Materials Chemistry C, 2014, 2, 940-945.	2.7	23
133	Microwave Absorption: Confining Tiny MoO₂ Clusters into Reduced Graphene Oxide for Highly Efficient Low Frequency Microwave Absorption (Small 30/2020). Small, 2020, 16, 2070168.	5.2	23
134	Dual-Nitrogen-Doped Carbon Decorated on Na₃V₂(PO₄)₃ to Stabilize the Intercalation of Three Sodium Ions. ACS Applied Energy Materials, 2020, 3, 6870-6879.	2.5	23
135	Synthesis of flower-like cobalt, nickel phosphates grown on the surface of porous high entropy alloy for efficient oxygen evolution. Journal of Alloys and Compounds, 2021, 885, 160995.	2.8	23
136	In Situ Modification of Three-Dimensional Polyphenylene Dendrimer-Templated CuO Rice-Shaped Architectures with Electron Beam Irradiation. Journal of Physical Chemistry C, 2010, 114, 13465-13470.	1.5	22
137	Loading MIL-53(Al) with Ag nanoparticles: Synthesis, structural stability and catalytic properties. International Journal of Hydrogen Energy, 2014, 39, 14496-14502.	3.8	22
138	Facile fabrication of free-standing Cu2Oâ€“Au nanocomposite on Cu foil for high performance glucose sensing. Journal of Alloys and Compounds, 2020, 848, 156532.	2.8	22
139	Lotus root-like porous carbon for potassium ion battery with high stability and rate performance. Journal of Power Sources, 2020, 466, 228303.	4.0	22
140	An investigation of the tensile and compressive properties of Al6061 and its nanocomposites in as-cast state and in extruded condition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 607, 589-595.	2.6	21
141	Extraordinary catalysis induced by titanium foil cathode plasma for degradation of water pollutant. Chemosphere, 2019, 214, 341-348.	4.2	21
142	Enhanced Catalytic Activity Induced by the Nanostructuring Effect in Pd Decoration onto Doped Ceria Enabling an Origami Paper Analytical Device for High Performance of Amyloid-Î² Bioassay. ACS Applied Materials & Interfaces, 2021, 13, 33937-33947.	4.0	21
143	In Situ Formation of Decavanadate-Intercalated Layered Double Hydroxide Films on AA2024 and their Anti-Corrosive Properties when Combined with Hybrid Sol Gel Films. Materials, 2017, 10, 426.	1.3	20
144	Ordered distributed nickel sulfide nanoparticles across graphite nanosheets for efficient oxygen evolution reaction electrocatalyst. International Journal of Hydrogen Energy, 2019, 44, 1544-1554.	3.8	20

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145	Photoinduced superhydrophilicity of TiO₂thin film with hierarchical Cu doping. Science and Technology of Advanced Materials, 2012, 13, 025001.	2.8	19
146	Mechanically Durable Memristor Arrays Based on a Discrete Structure Design. Advanced Materials, 2022, 34, e2106212.	11.1	19
147	Failure modes after exhaustion of dislocation glide ability in thin crystals. Science in China Series D: Earth Sciences, 1999, 42, 1-9.	0.9	18
148	Effects of cathodic potential on the local electrochemical environment under a disbonded coating. Journal of Applied Electrochemistry, 2009, 39, 697-704.	1.5	17
149	An investigation into different nickel and nickelâ€“phosphorus stacked thin coatings for the corrosion protection of electrical contacts. Surface and Coatings Technology, 2016, 300, 95-103.	2.2	17
150	Solvothermal synthesis of Li3VO4: Morphology control and electrochemical performance as anode for lithium-ion batteries. International Journal of Hydrogen Energy, 2017, 42, 22167-22174.	3.8	17
151	Molecular-scale cage-confinement pyrolysis route to size-controlled molybdenum carbide nanoparticles for electrochemical sensor. Biosensors and Bioelectronics, 2020, 165, 112373.	5.3	17
152	In situ optical spectroscopic understanding of electrochemical passivation mechanism on solâ€“gel processed WO3 photoanodes. Journal of Energy Chemistry, 2022, 71, 20-28.	7.1	17
153	Influence of the chemical composition of the plating solution on the ability of nickel coatings to protect Nd2Fe14B magnets against corrosion. Journal of Magnetism and Magnetic Materials, 2001, 223, 103-111.	1.0	16
154	Hierarchical architecture of self-assembled carbon nitride nanocrystals. Journal of Materials Chemistry, 2007, 17, 1255.	6.7	16
155	Rapid fabrication of nanoneedle arrays by ion sputtering. Nanotechnology, 2008, 19, 015303.	1.3	16
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