

# Yizhong Huang

## List of Publications by Citations

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248  
papers

9,321  
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48  
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88  
g-index

259  
ext. papers

10,874  
ext. citations

7.8  
avg, IF

6.25  
L-index

#	Paper	IF	Citations
248	Synthesis of hexagonal close-packed gold nanostructures. <i>Nature Communications</i> , <b>2011</b> , 2, 292	17.4	467
247	Nickel Nanoparticles Encapsulated in Few-Layer Nitrogen-Doped Graphene Derived from Metal-Organic Frameworks as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605957	24	421
246	Zeolitic imidazolate framework 67-derived high symmetric porous CoO hollow dodecahedra with highly enhanced lithium storage capability. <i>Small</i> , <b>2014</b> , 10, 1932-8	11	403
245	MOF-templated formation of porous CuO hollow octahedra for lithium-ion battery anode materials. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 11126	13	314
244	A flexible alkaline rechargeable Ni/Fe battery based on graphene foam/carbon nanotubes hybrid film. <i>Nano Letters</i> , <b>2014</b> , 14, 7180-7	11.5	309
243	High-performance asymmetric supercapacitors based on multilayer MnO <sub>2</sub> /graphene oxide nanoflakes and hierarchical porous carbon with enhanced cycling stability. <i>Small</i> , <b>2015</b> , 11, 1310-9	11	289
242	Highly efficient restoration of graphitic structure in graphene oxide using alcohol vapors. <i>ACS Nano</i> , <b>2010</b> , 4, 5285-92	16.7	227
241	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H <sub>2</sub> Evolution and CO <sub>2</sub> Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 7260-7268	8.3	224
240	GaAs/AlGaAs nanowire photodetector. <i>Nano Letters</i> , <b>2014</b> , 14, 2688-93	11.5	207
239	Investigation of microstructure and mechanical properties of Al6061-nanocomposite fabricated by stir casting. <i>Materials &amp; Design</i> , <b>2014</b> , 55, 921-928		188
238	Molten-salt-mediated synthesis of SiC nanowires for microwave absorption applications. <i>CrystEngComm</i> , <b>2013</b> , 15, 570-576	3.3	156
237	Large-Area and High-Quality 2D Transition Metal Telluride. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603471	24	140
236	Ultrafine Metal Nanoparticles/N-Doped Porous Carbon Hybrids Coated on Carbon Fibers as Flexible and Binder-Free Water Splitting Catalysts. <i>Advanced Energy Materials</i> , <b>2017</b> , 7, 1700220	21.8	126
235	Graphene oxide-templated synthesis of ultrathin or tadpole-shaped Au nanowires with alternating hcp and fcc domains. <i>Advanced Materials</i> , <b>2012</b> , 24, 979-83	24	123
234	Full solution-processed synthesis of all metal oxide-based tree-like heterostructures on fluorine-doped tin oxide for water splitting. <i>Advanced Materials</i> , <b>2012</b> , 24, 5374-8	24	123
233	Controllable Growth of ZnO Nanostructures by a Simple Solvothermal Process. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 106-111	3.8	116
232	Structure stability of metal-organic framework MIL-53 (Al) in aqueous solutions. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 16710-16715	6.7	112

231	General Approach for MOF-Derived Porous Spinel AFe <sub>2</sub> O <sub>4</sub> Hollow Structures and Their Superior Lithium Storage Properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 26751-7	9.5	108
230	FeCo/FeCoNi/N-doped carbon nanotubes grafted polyhedron-derived hybrid fibers as bifunctional oxygen electrocatalysts for durable rechargeable zinc-air battery. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 254, 26-36	21.8	107
229	Novel fuel cell with nanocomposite functional layer designed by perovskite solar cell principle. <i>Nano Energy</i> , <b>2016</b> , 19, 156-164	17.1	103
228	Human gait recognition using patch distribution feature and locality-constrained group sparse representation. <i>IEEE Transactions on Image Processing</i> , <b>2012</b> , 21, 316-26	8.7	102
227	Polydopamine-assisted decoration of ZnO nanorods with Ag nanoparticles: an improved photoelectrochemical anode. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 5045-5052	13	96
226	Chemical reaction between Ag nanoparticles and TCNQ microparticles in aqueous solution. <i>Small</i> , <b>2011</b> , 7, 1242-6	11	89
225	Unraveling the Potassium Storage Mechanism in Graphite Foam. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900579	21.8	86
224	Synthesis of multimodal porous ZnCo <sub>2</sub> O <sub>4</sub> and its electrochemical properties as an anode material for lithium ion batteries. <i>Journal of Power Sources</i> , <b>2015</b> , 294, 112-119	8.9	83
223	In vitro biodegradation of three brushite calcium phosphate cements by a macrophage cell-line. <i>Biomaterials</i> , <b>2006</b> , 27, 4557-65	15.6	83
222	Rapid Pseudocapacitive Sodium-Ion Response Induced by 2D Ultrathin Tin Monoxide Nanoarrays. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606232	15.6	81
221	Transition-metal-ion-mediated polymerization of dopamine: mussel-inspired approach for the facile synthesis of robust transition-metal nanoparticle-graphene hybrids. <i>Chemistry - A European Journal</i> , <b>2014</b> , 20, 7776-83	4.8	80
220	Semi-supervised dimension reduction using trace ratio criterion. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2012</b> , 23, 519-26	10.3	76
219	Highly dispersed Au nanoparticles immobilized on Zr-based metal-organic frameworks as heterostructured catalyst for CO oxidation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 14294	13	75
218	Interpenetrating interfaces for efficient perovskite solar cells with high operational stability and mechanical robustness. <i>Nature Communications</i> , <b>2021</b> , 12, 973	17.4	75
217	Photochemically controlled synthesis of anisotropic Au nanostructures: platelet-like Au nanorods and six-star Au nanoparticles. <i>ACS Nano</i> , <b>2010</b> , 4, 6196-202	16.7	74
216	Hierarchically porous three-dimensional electrodes of CoMoO <sub>4</sub> and ZnCoO <sub>4</sub> and their high anode performance for lithium ion batteries. <i>Nanoscale</i> , <b>2014</b> , 6, 10556-61	7.7	72
215	Van der Waals negative capacitance transistors. <i>Nature Communications</i> , <b>2019</b> , 10, 3037	17.4	71
214	In situ Raman spectroscopy study of corrosion products on the surface of carbon steel in solution containing Cl <sup>-</sup> and SO <sub>4</sub> <sup>2-</sup> . <i>Engineering Failure Analysis</i> , <b>2011</b> , 18, 1981-1989	3.2	71

213	Growth of Tapered SiC Nanowires on Flexible Carbon Fabric: Toward Field Emission Applications. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 12940-12945	3.8	69
212	Characterisation of titanium oxide film grown in 0.9% NaCl at different sweep rates. <i>Electrochimica Acta</i> , <b>2005</b> , 51, 1099-1107	6.7	69
211	Manganese phosphate coated Li[Ni <sub>0.6</sub> Co <sub>0.2</sub> Mn <sub>0.2</sub> ]O <sub>2</sub> cathode material: Towards superior cycling stability at elevated temperature and high voltage. <i>Journal of Power Sources</i> , <b>2018</b> , 402, 263-271	8.9	69
210	Hybrid vertical graphene/lithium titanate 1D arrays for lithium ion storage with extraordinary performance. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8916-8921	13	66
209	"Electron/Ion Sponge"-Like V-Based Polyoxometalate: Toward High-Performance Cathode for Rechargeable Sodium Ion Batteries. <i>ACS Nano</i> , <b>2017</b> , 11, 6911-6920	16.7	66
208	One-pot sequential electrochemical deposition of multilayer poly(3,4-ethylenedioxythiophene):poly(4-styrenesulfonic acid)/tungsten trioxide hybrid films and their enhanced electrochromic properties. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 2708-2717	13	64
207	New insight into the roles of oxygen vacancies in hematite for solar water splitting. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 1074-1082	3.6	59
206	Multi-channel FeP@C octahedra anchored on reduced graphene oxide nanosheet with efficient performance for lithium-ion batteries. <i>Carbon</i> , <b>2018</b> , 139, 477-485	10.4	58
205	Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. <i>Nature Communications</i> , <b>2020</b> , 11, 3729	17.4	57
204	Sb-induced phase control of InAsSb nanowires grown by molecular beam epitaxy. <i>Nano Letters</i> , <b>2015</b> , 15, 1109-16	11.5	52
203	Defective ultra-thin two-dimensional g-CN photocatalyst for enhanced photocatalytic H evolution activity. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 581, 159-166	9.3	50
202	A general approach towards multi-faceted hollow oxide composites using zeolitic imidazolate frameworks. <i>Nanoscale</i> , <b>2015</b> , 7, 965-74	7.7	49
201	A novel synthesis of carbon nanotubes directly from an indecomposable solid carbon source for electrochemical applications. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2137-2146	13	49
200	Nanoscale ion intermixing induced activation of Fe <sub>2</sub> O <sub>3</sub> /MnO <sub>2</sub> composites for application in lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 8510-8518	13	47
199	High-Crystallinity Urchin-like VS Anode for High-Performance Lithium-Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 14727-14734	9.5	47
198	Hierarchical layered titanate microspherulite: formation by electrochemical spark discharge spallation and application in aqueous pollutant treatment. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 10169		47
197	Hierarchical three-dimensional Fe <sub>3</sub> O <sub>4</sub> @porous carbon matrix/graphene anodes for high performance lithium ion batteries. <i>Electrochimica Acta</i> , <b>2018</b> , 260, 965-973	6.7	45
196	Templated formation of porous Mn <sub>2</sub> O <sub>3</sub> octahedra from Mn-MIL-100 for lithium-ion battery anode materials. <i>Materials and Design</i> , <b>2016</b> , 98, 319-323	8.1	44

195	Confining Tiny MoO Clusters into Reduced Graphene Oxide for Highly Efficient Low Frequency Microwave Absorption. <i>Small</i> , <b>2020</b> , 16, e2001686	11	43
194	Characterization of corrosion products formed on the surface of carbon steel by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , <b>2009</b> , 40, 76-79	2.3	43
193	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. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11938-11947	13	42
192	Phase transition of hollow-porous $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> microsphere based anodes for lithium ion batteries during high rate cycling. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 16569-16575	13	42
191	Formation of VO <sub>2</sub> zero-dimensional/nanoporous layers with large supercooling effects and enhanced thermochromic properties. <i>RSC Advances</i> , <b>2013</b> , 3, 7124	3.7	41
190	Self-assembled Cu-Ni bimetal oxide 3D in-plane epitaxial structures for highly efficient oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 244, 56-62	21.8	41
189	Nanostructured Metal-Organic Conjugated Coordination Polymers with Ligand Tailoring for Superior Rechargeable Energy Storage. <i>Small</i> , <b>2019</b> , 15, e1903188	11	40
188	Nanostructured CuO/C Hollow Shell@3D Copper Dendrites as a Highly Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 23807-23812	9.5	40
187	Carbon supported Pt <sub>9</sub> Sn <sub>1</sub> nanoparticles as an efficient nanocatalyst for glycerol oxidation. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 180, 78-85	21.8	39
186	Cadmium sulfide quantum dots supported on gallium and indium oxide for visible-light-driven hydrogen evolution from water. <i>ChemSusChem</i> , <b>2014</b> , 7, 2537-44	8.3	39
185	Dependence of the corrosion behavior of aluminum alloy 7075 on the thin electrolyte layers. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2009</b> , 162, 1-8	3.1	39
184	Computational simulation of metastable pitting of stainless steel. <i>Electrochimica Acta</i> , <b>2009</b> , 54, 6389-6395	3.7	39
183	The roles of lithium-philic giant nitrogen-doped graphene in protecting micron-sized silicon anode from fading. <i>Scientific Reports</i> , <b>2015</b> , 5, 15665	4.9	38
182	Well-aligned SiC nanoneedle arrays for excellent field emitters. <i>Materials Letters</i> , <b>2013</b> , 91, 220-223	3.3	38
181	Rational design of intertwined carbon nanotubes threaded porous CoP@carbon nanocubes as anode with superior lithium storage. <i>Carbon</i> , <b>2019</b> , 142, 269-277	10.4	38
180	Interface reaction between an electroless Ni-Co metallization and Sn <sub>3</sub> .5Ag lead-free solder with improved joint reliability. <i>Acta Materialia</i> , <b>2014</b> , 71, 69-79	8.4	37
179	Synthesis of Nanosize Powders and Thin Films of Yb-Doped YAG by Sol-Gel Methods. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 3474-3480	9.6	36
178	Influence of pulsed laser deposition rate on the microstructure and thermoelectric properties of Ca <sub>3</sub> Co <sub>4</sub> O <sub>9</sub> thin films. <i>Journal of Crystal Growth</i> , <b>2009</b> , 311, 4123-4128	1.6	35

177	Diffusion induced concave Co <sub>3</sub> O <sub>4</sub> @CoFe <sub>2</sub> O <sub>4</sub> hollow heterostructures for high performance lithium ion battery anode. <i>Energy Storage Materials</i> , <b>2016</b> , 4, 145-153	19.4	35
176	Porous and hollow NiO microspheres for high capacity and long-life anode materials of Li-ion batteries. <i>Materials and Design</i> , <b>2016</b> , 92, 160-165	8.1	34
175	A Depth-Profiling Study on the Solid Electrolyte Interface: Bis(fluorosulfonyl)imide Anion toward Improved K <sup>+</sup> Storage. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 7942-7951	6.1	33
174	Improving Photocatalytic H <sub>2</sub> Evolution of TiO <sub>2</sub> via Formation of {001}{010} Quasi-Heterojunctions. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 22894-22902	3.8	33
173	Synthesis of metal sulfide sensitized zinc oxide-based core/shell/shell nanorods and their photoelectrochemical properties. <i>Journal of Power Sources</i> , <b>2014</b> , 268, 388-396	8.9	32
172	Morphology controlled lithium storage in Li <sub>3</sub> VO <sub>4</sub> anodes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 456-463	4.6	32
171	Investigation of work softening mechanisms and texture in a hot deformed 6061 aluminum alloy at high temperature. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 606, 240-247	5.3	31
170	Polyphenylene Dendrimer-Templated In Situ Construction of Inorganic/Organic Hybrid Rice-Shaped Architectures. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 43-49	15.6	31
169	TEM investigation of intergranular stress corrosion cracking for 316 stainless steel in PWR environment. <i>Acta Materialia</i> , <b>2006</b> , 54, 635-641	8.4	31
168	Preparation of site specific transmission electron microscopy plan-view specimens using a focused ion beam system. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2001</b> , 19, 755		31
167	Graphene reinforced nickel-based superalloy composites fabricated by additive manufacturing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 769, 138484	5.3	31
166	Synthesis of porous amorphous FePO <sub>4</sub> nanotubes and their lithium storage properties. <i>Chemistry - A European Journal</i> , <b>2013</b> , 19, 1568-72	4.8	30
165	One-step solvothermal synthesis of single-crystalline TiOF <sub>2</sub> nanotubes with high lithium-ion battery performance. <i>Chemistry - A European Journal</i> , <b>2012</b> , 18, 4026-30	4.8	30
164	Effects of temperature on the chemistry and tribology of co-sputtered MoS <sub>x</sub> -Ti composite thin films. <i>Thin Solid Films</i> , <b>2005</b> , 489, 137-144	2.2	30
163	Dual-phase titanate/anatase with nitrogen doping for enhanced degradation of organic dye under visible light. <i>Chemistry - A European Journal</i> , <b>2011</b> , 17, 2575-8	4.8	29
162	Solution-processable semiconducting thin-film transistors using single-walled carbon nanotubes chemically modified by organic radical initiators. <i>Chemical Communications</i> , <b>2009</b> , 7182-4	5.8	29
161	Polysomatic apatites. <i>Acta Crystallographica Section B: Structural Science</i> , <b>2010</b> , 66, 1-16		28
160	Phase controllable fabrication of zinc cobalt sulfide hollow polyhedra as high-performance electrocatalysts for the hydrogen evolution reaction. <i>Nanoscale</i> , <b>2018</b> , 10, 1774-1778	7.7	28

159	The Self-Passivation Mechanism in Degradation of BiVO Photoanode. <i>IScience</i> , <b>2019</b> , 19, 976-985	6.1	27
158	Effect of applied potentials on stress corrosion cracking of X70 pipeline steel in alkali solution. <i>Materials &amp; Design</i> , <b>2009</b> , 30, 2259-2263		27
157	The significance of carbon on the microstructure of TiAlNC coatings deposited by reactive magnetron sputtering. <i>Applied Surface Science</i> , <b>2006</b> , 253, 2470-2473	6.7	27
156	Nitrogen configuration dependent holey active sites toward enhanced K <sup>+</sup> storage in graphite foam. <i>Journal of Power Sources</i> , <b>2019</b> , 419, 82-90	8.9	27
155	Mechanistic Aspect of Non-Steady Electrochemical Characteristic During Stress Corrosion Cracking of an X70 Pipeline Steel in Simulated Underground Water. <i>Corrosion</i> , <b>2014</b> , 70, 678-685	1.8	26
154	Enabling a Stable Room-Temperature Sodium-Sulfur Battery Cathode by Building Heterostructures in Multichannel Carbon Fibers. <i>ACS Nano</i> , <b>2021</b> , 15, 5639-5648	16.7	26
153	Preparation of transmission electron microscopy cross-section specimens of crack tips using focused ion beam milling. <i>Journal of Microscopy</i> , <b>2002</b> , 207, 129-36	1.9	25
152	Probing the Performance Limitations in Thin-Film FeVO <sub>4</sub> Photoanodes for Solar Water Splitting. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 9773-9782	3.8	24
151	Enhancing the Electrochemical Performance of LiNiCoMnO by VO/LiVO Coating. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 26994-27003	9.5	24
150	Solution Growth of Ultralong Gold Nanohelices. <i>ACS Nano</i> , <b>2017</b> , 11, 5538-5546	16.7	23
149	Carbon spheres anchored Co <sub>3</sub> O <sub>4</sub> nanoclusters as an efficient catalyst for dye degradation. <i>Applied Catalysis A: General</i> , <b>2016</b> , 513, 106-115	5.1	23
148	In Situ Modification of Three-Dimensional Polyphenylene Dendrimer-Templated CuO Rice-Shaped Architectures with Electron Beam Irradiation. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 13465-13470	3.8	22
147	Macrophage-mediated biodegradation of poly(DL-lactide-co-glycolide) in vitro. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2006</b> , 79, 582-90	5.4	22
146	Superior Li-ion storage of VS nanowires anchored on reduced graphene. <i>Nanoscale</i> , <b>2019</b> , 11, 9556-9562	7.7	21
145	The role of tin oxide surface defects in determining nanonet FET response to humidity and photoexcitation. <i>Journal of Materials Chemistry C</i> , <b>2014</b> , 2, 940-945	7.1	21
144	Pt nanodendrites anchored on bamboo-shaped carbon nanofiber arrays as highly efficient electrocatalyst for oxygen reduction reaction. <i>International Journal of Hydrogen Energy</i> , <b>2013</b> , 38, 16677-16684	6.7	21
143	Improving solar water-splitting performance of LaTaON <sub>2</sub> by bulk defect control and interface engineering. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 226, 111-116	21.8	21
142	Large Piezoelectricity and Ferroelectricity in Mn-Doped (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -BaTiO <sub>3</sub> Thin Film Prepared by Pulsed Laser Deposition. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 2347-2353	3.8	20

141	A novel core-shell nanocomposite electrolyte for low temperature fuel cells. <i>Journal of Power Sources</i> , <b>2012</b> , 201, 164-168	8.9	20
140	Synthesis and photosensitivity of azobenzene functionalized hydroxypropylcellulose. <i>RSC Advances</i> , <b>2013</b> , 3, 15909	3.7	20
139	Loading MIL-53(Al) with Ag nanoparticles: Synthesis, structural stability and catalytic properties. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 14496-14502	6.7	20
138	Facile "needle-scratching" method for fast catalyst patterns used for large-scale growth of densely aligned single-walled carbon-nanotube arrays. <i>Small</i> , <b>2009</b> , 5, 2061-5	11	20
137	Direct evidence of initial pitting corrosion. <i>Electrochemistry Communications</i> , <b>2008</b> , 10, 1000-1004	5.1	20
136	A Bulk-Heterostructure Nanocomposite Electrolyte of CeSmO-SrTiO for Low-Temperature Solid Oxide Fuel Cells. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 46	19.5	20
135	Direct evidence of passive film growth on 316 stainless steel in alkaline solution. <i>Materials Characterization</i> , <b>2017</b> , 131, 168-174	3.9	19
134	Nano-scale oxidation of copper in aqueous solution. <i>Electrochemistry Communications</i> , <b>2013</b> , 26, 21-24	5.1	19
133	Controlled synthesis of double-wall $\alpha$ -FePO <sub>4</sub> nanotubes and their LIB cathode properties. <i>Small</i> , <b>2013</b> , 9, 1036-41	11	19
132	Hollow Mesoporous Co(PO <sub>3</sub> ) <sub>2</sub> @Carbon Polyhedra as High Performance Anode Materials for Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 8599-8606	3.8	18
131	Phase Transformation of GeO Glass to Nanocrystals under Ambient Conditions. <i>Nano Letters</i> , <b>2018</b> , 18, 3290-3296	11.5	18
130	Development of polyoxometalate-anchored 3D hybrid hydrogel for high-performance flexible pseudo-solid-state supercapacitor. <i>Electrochimica Acta</i> , <b>2020</b> , 329, 135181	6.7	18
129	Failure modes after exhaustion of dislocation glide ability in thin crystals. <i>Science in China Series D: Earth Sciences</i> , <b>1999</b> , 42, 1-9		17
128	Engineering of cation and anion vacancies in Co <sub>3</sub> O <sub>4</sub> thin nanosheets by laser irradiation for more advancement of oxygen evolution reaction. <i>Nano Energy</i> , <b>2021</b> , 83, 105800	17.1	17
127	An investigation of the tensile and compressive properties of Al6061 and its nanocomposites in as-cast state and in extruded condition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 607, 589-595	5.3	16
126	Photoinduced superhydrophilicity of TiO thin film with hierarchical Cu doping. <i>Science and Technology of Advanced Materials</i> , <b>2012</b> , 13, 025001	7.1	16
125	Hierarchical architecture of self-assembled carbon nitride nanocrystals. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 1255		16
124	Ordered distributed nickel sulfide nanoparticles across graphite nanosheets for efficient oxygen evolution reaction electrocatalyst. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 1544-1554	6.7	16

123	High Performance Li Metal Anode Enabled by Robust Covalent Triazine Framework-Based Protective Layer. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2006159	15.6	16
122	The Electrochemical Response of Single Crystalline Copper Nanowires to Atmospheric Air and Aqueous Solution. <i>Small</i> , <b>2017</b> , 13, 1603411	11	15
121	An investigation into different nickel and nickel phosphorus stacked thin coatings for the corrosion protection of electrical contacts. <i>Surface and Coatings Technology</i> , <b>2016</b> , 300, 95-103	4.4	15
120	Phase-Sequenced Deposition of Calcium Titanate/Hydroxyapatite Films with Controllable Crystallographic Texture onto Ti6Al4V by Triethyl Phosphate-Regulated Hydrothermal Crystallization. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 3412-3422	3.5	15
119	High thermoelectric performance enabled by convergence of nested conduction bands in PbBiSe with low thermal conductivity. <i>Nature Communications</i> , <b>2021</b> , 12, 4793	17.4	15
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