

# Hui Pan

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

256  
papers

9,807  
citations

51  
h-index

91  
g-index

270  
ext. papers

11,686  
ext. citations

6.8  
avg, IF

6.92  
L-index

#	Paper	IF	Citations
256	Interfacial Engineering of PTAA/Perovskites for Improved Crystallinity and Hole Extraction in Inverted Perovskite Solar Cells.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> ,	9.5	7
255	Two-Dimensional Dirac Nodal Line Carbon Nitride to Anchor Single-Atom Catalyst for Oxygen Reduction Reaction.. <i>ChemSusChem</i> , <b>2022</b> , e202102537	8.3	0
254	Insight into adsorption mechanism of water on tricalcium silicate from first-principles calculations. <i>Cement and Concrete Research</i> , <b>2022</b> , 152, 106684	10.3	2
253	Insightful view on the active sites of Ni/NixP for hydrogen evolution reaction. <i>Applied Materials Today</i> , <b>2022</b> , 26, 101343	6.6	1
252	Direct Z-scheme construction of g-C3N4 quantum dots / TiO2 nanoflakes for efficient photocatalysis. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 132861	14.7	5
251	Remarkable synergistic effect in cobalt-iron nitride/alloy nanosheets for robust electrochemical water splitting. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 65, 405-414	12	11
250	In situ surface reconstruction on LaCoO3 leads to enhanced hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 891, 161754	5.7	2
249	Ab initio mechanism revealing for tricalcium silicate dissolution.. <i>Nature Communications</i> , <b>2022</b> , 13, 125317.4	17.4	1
248	Co2N0.67/MoO2 Heterostructure as High-Efficiency Electrocatalysts for the Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2022</b> , 5, 440-448	6.1	1
247	Processing Agricultural Cornstalks toward High-Efficient Stable Bifunctional ORR/OER Electrocatalysts. <i>Advanced Sustainable Systems</i> , <b>2022</b> , 6, 2100343	5.9	0
246	In-situ generation of Ni-CoOOH through deep reconstruction for durable alkaline water electrolysis. <i>Chemical Engineering Journal</i> , <b>2022</b> , 136432	14.7	0
245	Reconstruction Optimization of Distorted FeOOH/Ni Hydroxide for Enhanced Oxygen Evolution Reaction. <i>Materials Today Energy</i> , <b>2022</b> , 101005	7	1
244	Toward Enhanced Oxygen Evolution on NaBH4 Treated Ba0.5Sr0.5Co0.8Fe0.2O3-δ Nanofilm: Insights into the Facilitated Surface Reconstruction. <i>Materials Today Energy</i> , <b>2022</b> , 101046	7	0
243	Atomically Dispersed Heteronuclear Dual-Atom Catalysts: A New Rising Star in Atomic Catalysis.. <i>Small</i> , <b>2021</b> , e2106091	11	9
242	Corrosion engineering boosting bulk Fe50Mn30Co10Cr10 high-entropy alloy as high-efficient alkaline oxygen evolution reaction electrocatalyst. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 109, 267-267	9.1	2
241	3D VNi3S2@CoFe-LDH core-shell electrocatalysts for efficient water oxidation. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	4
240	Development of Perovskite Oxide-Based Electrocatalysts for Oxygen Evolution Reaction (Small 43/2021). <i>Small</i> , <b>2021</b> , 17, 2170226	11	2

239	Multi-Phase Heterostructure of CoNiP/Co P for Enhanced Hydrogen Evolution Under Alkaline and Seawater Conditions by Promoting H O Dissociation. <i>Small</i> , <b>2021</b> , 17, e2007557	11	19
238	Perovskite Solar Cells: Sputtered Indium-Zinc Oxide for Buffer Layer Free Semitransparent Perovskite Photovoltaic Devices in Perovskite/Silicon 4T-Tandem Solar Cells (Adv. Mater. Interfaces 6/2021). <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2170029	4.6	1
237	Coordination of $\pi$ Delocalization in g-CN for Efficient Photocatalytic Hydrogen Evolution under Visible Light. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 20114-20124	9.5	11
236	Single transition metal atom catalysts on Ti <sub>2</sub> CN <sub>2</sub> for efficient CO <sub>2</sub> reduction reaction. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 12886-12896	6.7	12
235	Quaternary-metal phosphide as electrocatalyst for efficient hydrogen evolution reaction in alkaline solution. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 18878-18886	6.7	3
234	Engineering Pt and Fe dual-metal single atoms anchored on nitrogen-doped carbon with high activity and durability towards oxygen reduction reaction for zinc-air battery. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 286, 119891	21.8	51
233	CNSi/MXene/CNSi: Unique Structure with Specific Electronic Properties for Nanodevices. <i>Small</i> , <b>2021</b> , 17, e2101482	11	0
232	Unravelling the Reaction Mechanisms of N Fixation on Molybdenum Nitride: A Full DFT Study from the Pristine Surface to Heteroatom Anchoring. <i>ChemSusChem</i> , <b>2021</b> , 14, 3257-3266	8.3	7
231	Designing Intrinsic Topological Insulators in Two-Dimensional Metal-Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 6934-6940	6.4	1
230	Development of Perovskite Oxide-Based Electrocatalysts for Oxygen Evolution Reaction. <i>Small</i> , <b>2021</b> , 17, e2101605	11	16
229	Photocatalysis over MXene-based hybrids: Synthesis, surface chemistry, and interfacial charge kinetics. <i>APL Materials</i> , <b>2021</b> , 9, 070703	5.7	9
228	Optimization the energy density and efficiency of BaTiO <sub>3</sub> -based ceramics for capacitor applications. <i>Chemical Engineering Journal</i> , <b>2021</b> , 409, 127375	14.7	29
227	Enhancement thermal stability of polyetherimide-based nanocomposites for applications in energy storage. <i>Composites Science and Technology</i> , <b>2021</b> , 201, 108501	8.6	22
226	Synergistic electronic and morphological modulation on ternary Co <sub>1-x</sub> V <sub>x</sub> P nanoneedle arrays for hydrogen evolution reaction with large current density. <i>Science China Materials</i> , <b>2021</b> , 64, 880-891	7.1	9
225	Design of phosphorus-functionalized MXenes for highly efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 597-606	13	7
224	Substantially improved energy storage capability of ferroelectric thin films for application in high-temperature capacitors. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 9281-9290	13	11
223	Sputtered Indium-Zinc Oxide for Buffer Layer Free Semitransparent Perovskite Photovoltaic Devices in Perovskite/Silicon 4T-Tandem Solar Cells. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2001604	4.6	10
222	MXenes: Novel electrocatalysts for hydrogen production and nitrogen reduction. <i>Catalysis Today</i> , <b>2021</b> , 370, 2-13	5.3	9

221	Ab initio design of a new family of 2D materials: transition metal carbon nitrogen compounds (MCNs). <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 4748-4756	7.1	2
220	Synergistic carbon and hydrogen reactions in the electrochemical reduction of CO <sub>2</sub> to liquid fuels. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 10546-10561	13	5
219	Charge-transfer induced multifunctional BCP:Ag complexes for semi-transparent perovskite solar cells with a record fill factor of 80.1%. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 12009-12018	13	16
218	Theoretical evidence of the spin-valley coupling and valley polarization in two-dimensional MoSiX (X = N, P, and As). <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 3144-3151	3.6	20
217	Tuning CO binding strength via engineering the copper/borophene interface for highly efficient conversion of CO into ethanol. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13192-13199	13	7
216	An enhanced oxygen evolution reaction on 2D CoOOH via strain engineering: an insightful view from spin state transition. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 17749-17759	13	9
215	AgS monolayer: an ultrasoft inorganic Lieb lattice. <i>Nanoscale</i> , <b>2021</b> , 13, 14008-14015	7.7	1
214	Direct coherent multi-ink printing of fabric supercapacitors. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	44
213	Pentagonal transition-metal (group X) chalcogenide monolayers: Intrinsic semiconductors for photocatalysis. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 9371-9379	6.7	8
212	Close-loop recycling of perovskite solar cells through dissolution-recrystallization of perovskite by butylamine. <i>Cell Reports Physical Science</i> , <b>2021</b> , 2, 100341	6.1	18
211	Postfire Properties of a Sigma Phase Containing Duplex Stainless Steel: Problems for Construction Use. <i>Journal of Materials in Civil Engineering</i> , <b>2021</b> , 33, 04021193	3	
210	Engineering carbon-shells of M@NC bifunctional oxygen electrocatalyst towards stable aqueous rechargeable Zn-air batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 418, 129409	14.7	12
209	Engineering highly active Ag/Nb <sub>2</sub> O <sub>5</sub> @Nb <sub>2</sub> CT (MXene) photocatalysts via steering charge kinetics strategy. <i>Chemical Engineering Journal</i> , <b>2021</b> , 421, 128766	14.7	18
208	Surface reconstruction on silver nanoparticles decorated trimetallic hydroxide nanosheets to generate highly active oxygen-deficient (oxy)hydroxide layer for high-efficient water oxidation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 425, 131662	14.7	8
207	Design of 2D materials - MSiCN (M = Cr, Mo, and W; x = 1 and 2) - with tunable electronic and magnetic properties. <i>Nanoscale</i> , <b>2021</b> , 13, 8038-8048	7.7	4
206	Graphynes as emerging 2D-platforms for electronic and energy applications: a computational perspective. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 6392-6412	7.8	2
205	Development of Electrocatalysts for Efficient Nitrogen Reduction Reaction under Ambient Condition. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2008983	15.6	34
204	Van der Waals Antiferroelectric Magnetic Tunnel Junction: A First-Principles Study of a CrSe/CuInPS/CrSe Junction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	1

203	PLD-fabricated perovskite oxide nanofilm as efficient electrocatalyst with highly enhanced water oxidation performance. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 272, 119046	21.8	20
202	Design of novel pentagonal 2D transitional-metal sulphide monolayers for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 16201-16209	6.7	13
201	Nitrogen-Doped Graphene Quantum Dots for Remarkable Solar Hydrogen Production. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5322-5332	6.1	29
200	Substrate strain engineering: an efficient strategy to enhance the catalytic activity of SACs on waved graphene for e-NRR. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 3773-3779	5.8	6
199	Amorphous NiWO <sub>4</sub> nanoparticles boosting the alkaline hydrogen evolution performance of Ni <sub>3</sub> S <sub>2</sub> electrocatalysts. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 274, 119120	21.8	46
198	Ultrahigh breakdown strength and energy density of polymer nanocomposite containing surface insulated BCZT@BN nanofibers. <i>Composites Science and Technology</i> , <b>2020</b> , 195, 108209	8.6	16
197	First-principles investigation of ScX (X = Cl, Br, or I) monolayers for flexible spintronic and electronic applications. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 14781-14786	3.6	2
196	Investigation on the role of amines in the liquefaction and recrystallization process of MAPbI <sub>3</sub> perovskite. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 13585-13593	13	7
195	Waved 2D Transition-Metal Disulfides for Nanodevices and Catalysis: A First-Principle Study. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 2804-2812	5.6	11
194	Engineering Sulfide-Phosphide Based Double Catalysts on 3D Nickel Phosphides Framework for Electrolytic Hydrogen Evolution: Activating Short-range Crystalline MoS <sub>2</sub> with Ni <sub>5</sub> P <sub>4</sub> -Ni <sub>2</sub> P Template. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 026511	3.9	6
193	Two-Dimensional Layered Materials: High-Efficient Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 6270-6296	5.6	27
192	Carrier-potential interaction for high-T <sub>c</sub> superconductivity. <i>International Journal of Modern Physics B</i> , <b>2020</b> , 34, 2050163	1.1	
191	Vertically-aligned 1T/2H-MS <sub>2</sub> (M = Mo, W) nanosheets for surface-enhanced Raman scattering with long-term stability and large-scale uniformity. <i>Applied Surface Science</i> , <b>2020</b> , 527, 146769	6.7	19
190	Electronic state optimization for electrochemical N <sub>2</sub> reduction reaction in aqueous solution. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 13896-13915	13	32
189	Nonhydrolytic sol-gel in-situ synthesis of novel recoverable amorphous Fe <sub>2</sub> TiO <sub>5</sub> /C hollow spheres as visible-light driven photocatalysts. <i>Materials and Design</i> , <b>2020</b> , 194, 108928	8.1	7
188	Oxygen Evolution Reaction Kinetics: Reducing Oxygen Evolution Reaction Overpotential in Cobalt-Based Electrocatalysts via Optimizing the Microparticles-in-Spider Web Electrode Configurations (Small 8/2020). <i>Small</i> , <b>2020</b> , 16, 2070041	11	1
187	The structures, electronic properties, and chemical bonding of binary alloy boron-aluminum clusters series B <sub>4</sub> Aln <sup>0/+</sup> (n = 1-8). <i>Materials Today Communications</i> , <b>2020</b> , 24, 100914	2.5	2
186	Beyond the Mahan-Sofo best thermoelectric strategy: high thermoelectric performance from directional $\pi$ -conjugation in two-dimensional poly(tetrathienoanthracene). <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 4257-4262	13	7

185	Reducing Oxygen Evolution Reaction Overpotential in Cobalt-Based Electrocatalysts via Optimizing the "Microparticles-in-Spider Web" Electrode Configurations. <i>Small</i> , <b>2020</b> , 16, e1907029	11	23
184	Designing Efficient Dual-Metal Single-Atom Electrocatalyst TMZnN <sub>6</sub> (TM = Mn, Fe, Co, Ni, Cu, Zn) for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 11301-11307	3.8	29
183	1T' Transition-Metal Dichalcogenides: Strong Bulk Photovoltaic Effect for Enhanced Solar-Power Harvesting. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 11221-11228	3.8	4
182	Ferroelectric control of single-molecule magnetism in 2D limit. <i>Science Bulletin</i> , <b>2020</b> , 65, 1252-1259	10.6	20
181	Cavitation Erosion Damage Mechanism of a Duplex Stainless Steel Having a Ferrite-Austenite-Sigma-Phase Triplex Microstructure. <i>Journal of Materials Engineering and Performance</i> , <b>2020</b> , 29, 2806-2815	1.6	4
180	Two-step solvent post-treatment on PTAA for highly efficient and stable inverted perovskite solar cells. <i>Photonics Research</i> , <b>2020</b> , 8, A39	6	11
179	Combined Experimental and Theoretical Assessment of WX <sub>y</sub> (X = C, N, S, P) for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 1082-1088	6.1	12
178	Van der Waals Contact to 2D Semiconductors with a Switchable Electric Dipole: Achieving Both n- and p-Type Ohmic Contacts to Metals with a Wide Range of Work Functions. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 1900981	6.4	6
177	Disclosing the microscopic mechanism and adsorption properties of CO capture in N-isopropylethylenediamine appended M(dobpdc) series. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 24614-24623	3.6	6
176	Two-dimensional materials as novel co-catalysts for efficient solar-driven hydrogen production. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 23202-23230	13	36
175	Surface Reconstruction and Phase Transition on Vanadium-Cobalt-Iron Trimetal Nitrides to Form Active Oxyhydroxide for Enhanced Electrocatalytic Water Oxidation. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2002464	21.8	76
174	Highly improved electrocatalytic activity of NiS <sub>x</sub> : Effects of Cr-doping and phase transition. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 267, 118721	21.8	34
173	Magnetic and electronic properties of 2D TiX (X = F, Cl, Br and I). <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 17632-17638	3.6	3
172	Mo incorporated Ni nanosheet as high-efficiency co-catalyst for enhancing the photocatalytic hydrogen production of g-C <sub>3</sub> N <sub>4</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 18912-18921	6.7	14
171	2D materials: Excellent substrates for surface-enhanced Raman scattering (SERS) in chemical sensing and biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2020</b> , 130, 115983	14.6	30
170	Theoretical Screening of Single Atoms Supported on Two-Dimensional Nb <sub>2</sub> CN <sub>2</sub> for Nitrogen Fixation. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 11274-11281	5.6	20
169	Oxygen Evolution Reaction: Surface Reconstruction and Phase Transition on Vanadium-Cobalt-Iron Trimetal Nitrides to Form Active Oxyhydroxide for Enhanced Electrocatalytic Water Oxidation (Adv. Energy Mater. 45/2020). <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2070184	21.8	2
168	High-Performance Semitransparent and Bifacial Perovskite Solar Cells with MoO <sub>x</sub> /Ag/WO <sub>x</sub> as the Rear Transparent Electrode. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000591	4.6	6

167	Atomistic Level Mechanism of CO <sub>2</sub> Adsorption in N-Ethylethylenediamine-Functionalized M <sub>2</sub> (dobpdc) Metal-Organic Frameworks. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 6337-6345	3.5	7
166	Co single-atom anchored on Co <sub>3</sub> O <sub>4</sub> and nitrogen-doped active carbon toward bifunctional catalyst for zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 260, 118188	21.8	94
165	Cobalt/titanium nitride@N-doped carbon hybrids for enhanced electrocatalytic hydrogen evolution and supercapacitance. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 14518-14526	3.6	9
164	Vanadium self-intercalated C/V <sub>1.11</sub> S <sub>2</sub> nanosheets with abundant active sites for enhanced electro-catalytic hydrogen evolution. <i>Electrochimica Acta</i> , <b>2019</b> , 300, 208-216	6.7	12
163	Highly in-plane anisotropic 2D semiconductors $\delta$ -AuSe with multiple superior properties: a first-principles investigation. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 395501	1.8	4
162	Mixed Two-Dimensional Organic-Inorganic Halide Perovskites for Highly Efficient and Stable Photovoltaic Application. <i>Molecules</i> , <b>2019</b> , 24,	4.8	1
161	WX /g-C <sub>3</sub> N <sub>4</sub> (WX =W C, WS , or W N) Composites for Highly Efficient Photocatalytic Water Splitting. <i>ChemSusChem</i> , <b>2019</b> , 12, 3355-3362	8.3	49
160	BC <sub>2</sub> N monolayers as promising anchoring materials for lithium-sulfur batteries: First-principles insights. <i>Carbon</i> , <b>2019</b> , 149, 530-537	10.4	30
159	H-/dT-MoS <sub>2</sub> -on-MXene Heterostructures as Promising 2D Anode Materials for Lithium-Ion Batteries: Insights from First Principles. <i>Advanced Theory and Simulations</i> , <b>2019</b> , 2, 1900045	3.5	12
158	WS <sub>2</sub> Nanosheets with Highly-Enhanced Electrochemical Activity by Facile Control of Sulfur Vacancies. <i>ChemCatChem</i> , <b>2019</b> , 11, 2667-2675	5.2	36
157	Cobalt-Vanadium Hydroxide Nanoneedles with a Free-Standing Structure as High-Performance Oxygen Evolution Reaction Electrocatalysts. <i>ChemElectroChem</i> , <b>2019</b> , 6, 2050-2055	4.3	19
156	Significance of hydrogen bonding networks in the proton-coupled electron transfer reactions of photosystem II from a quantum-mechanics perspective. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 8721-8728	3.6	2
155	Design of pentagonal NbX monolayers for electronics and electrocatalysis. <i>Applied Surface Science</i> , <b>2019</b> , 479, 595-600	6.7	11
154	Defining the composition and electronic structure of large-scale and single-crystalline like Cs <sub>2</sub> AgBiBr <sub>6</sub> films fabricated by capillary-assisted dip-coating method. <i>Materials Today Energy</i> , <b>2019</b> , 12, 186-197	7	17
153	Enhanced N <sub>2</sub> -Fixation by Engineering the Edges of Two-Dimensional Transition-Metal Disulfides. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 22221-22227	3.8	35
152	Enhancing the Efficiency and Stability of NiO <sub>x</sub> -Based Silicon Photoanode via Interfacial Engineering. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 6883-6890	6.1	2
151	In Situ Hybridizing MoS <sub>2</sub> Microflowers on VS <sub>2</sub> Microflakes in a One-Pot CVD Process for Electrolytic Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 5799-5808	6.1	28
150	Ultrafine WC <sub>1-x</sub> Nanocrystals: An Efficient Cocatalyst for the Significant Enhancement of Photocatalytic Hydrogen Evolution on g-C <sub>3</sub> N <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 26136-26144	3.8	24

149	Photoresponse of nonvolatile resistive memory device based on all-inorganic perovskite CsPbBr <sub>3</sub> nanocrystals. <i>Journal Physics D: Applied Physics</i> , <b>2019</b> , 52, 125103	3	13
148	A novel Mn/Co dual nanoparticle decorated hierarchical carbon structure derived from a biopolymer hydrogel as a highly efficient electro-catalyst for the oxygen reduction reaction. <i>Chemical Communications</i> , <b>2019</b> , 55, 13900-13903	5.8	8
147	One-Pot Synthesis of Co-Doped VSe <sub>2</sub> Nanosheets for Enhanced Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 644-653	6.1	41
146	Network-Like Ni <sub>1-x</sub> Mox Nanosheets: Multi-Functional Electrodes for Overall Water Splitting and Supercapacitor. <i>ChemElectroChem</i> , <b>2019</b> , 6, 1338-1343	4.3	10
145	High-Performance Sodium-Ion Batteries Based on Nitrogen-Doped Mesoporous Carbon Spheres with Ultrathin Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 2970-2977	9.5	51
144	Hierarchical Ultrafine Ni <sub>3</sub> V <sub>2</sub> O <sub>8</sub> Nanoparticles Anchored on rGO as High-Performance Anode Materials for Lithium-Ion Batteries. <i>Energy Technology</i> , <b>2019</b> , 7, 1800784	3.5	6
143	Carbonized MoS <sub>2</sub> : Super-Active Co-Catalyst for Highly Efficient Water Splitting on CdS. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 4220-4229	8.3	43
142	Highly stable tungsten disulfide supported on a self-standing nickel phosphide foam as a hybrid electrocatalyst for efficient electrolytic hydrogen evolution. <i>Nano Energy</i> , <b>2019</b> , 55, 193-202	17.1	43
141	Fullerene/layered antiferromagnetic reconstructed spinterface: Subsurface layer dominates molecular orbitals' spin-split and large induced magnetic moment. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 114704	3.9	1
140	Aqueous rechargeable dual-ion battery based on fluoride ion and sodium ion electrochemistry. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 8244-8250	13	41
139	Structural and Electronic Properties of Two-Dimensional Organic-Inorganic Halide Perovskites and their Stability against Moisture. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5844-5853	3.8	15
138	Efficient nitrogen fixation to ammonia on MXenes. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 14504-14512	3.6	65
137	A new ether-based electrolyte for lithium sulfur batteries using a S@pPAN cathode. <i>Chemical Communications</i> , <b>2018</b> , 54, 5478-5481	5.8	31
136	Electronic, magnetic, catalytic, and electrochemical properties of two-dimensional Janus transition metal chalcogenides. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 8021-8029	13	36
135	Exploring new two-dimensional monolayers: pentagonal transition metal borides/carbides (penta-TMB/Cs). <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 10226-10232	13	56
134	3D heterostructured pure and N-Doped Ni <sub>3</sub> S <sub>2</sub> /VS <sub>2</sub> nanosheets for high efficient overall water splitting. <i>Electrochimica Acta</i> , <b>2018</b> , 269, 55-61	6.7	91
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