

Hui Pan

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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	Room-temperature ferromagnetism in carbon-doped ZnO. <i>Physical Review Letters</i> , 2007 , 99, 127201	7.4	712
255	Quasiparticle band structures and optical properties of strained monolayer MoS2 and WS2. <i>Physical Review B</i> , 2013 , 87,	3.3	662
254	Carbon nanotubes for supercapacitor. <i>Nanoscale Research Letters</i> , 2010 , 5, 654-68	5	515
253	Band gap narrowing of titanium oxide semiconductors by noncompensated anion-cation codoping for enhanced visible-light photoactivity. <i>Physical Review Letters</i> , 2009 , 103, 226401	7.4	325
252	Mechanism of ferromagnetism in nitrogen-doped ZnO: First-principle calculations. <i>Physical Review B</i> , 2008 , 78,	3.3	254
251	Growth of single-crystalline Ni and Co nanowires via electrochemical deposition and their magnetic properties. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 3094-8	3.4	231
250	Edge-dependent structural, electronic and magnetic properties of MoS2 nanoribbons. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7280		224
249	Tuning the Electronic and Magnetic Properties of MoS2 Nanoribbons by Strain Engineering. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 11752-11757	3.8	190
248	Principles on design and fabrication of nanomaterials as photocatalysts for water-splitting. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 57, 584-601	16.2	156
247	Ultra-high electrocatalytic activity of VS2 nanoflowers for efficient hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15080-15086	13	141
246	Synergistic effect of 2D Ti2C and g-C3N4 for efficient photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 16748-16756	13	141
245	Facile Synthesis of Vanadium-Doped NiS Nanowire Arrays as Active Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5959-5967	9.5	138
244	Magnetic properties of carbon doped CdS: A first-principles and Monte Carlo study. <i>Physical Review B</i> , 2008 , 77,	3.3	137
243	Effects of H-, N-, and (H, N)-Doping on the Photocatalytic Activity of TiO2. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12224-12231	3.8	132
242	Metal dichalcogenides monolayers: novel catalysts for electrochemical hydrogen production. <i>Scientific Reports</i> , 2014 , 4, 5348	4.9	131
241	Ferromagnetism in ZnO Nanowires Derived from Electro-deposition on AAO Template and Subsequent Oxidation. <i>Advanced Materials</i> , 2008 , 20, 1170-1174	24	127
240	Strong ferromagnetism in hydrogenated monolayer MoS2 tuned by strain. <i>Physical Review B</i> , 2013 , 88,	3.3	113

239	Supercapacitor Electrodes from Tubes-in-Tube Carbon Nanostructures. <i>Chemistry of Materials</i> , 2007 , 19, 6120-6125	9.6	108
238	Semiconductor nanowires and nanotubes: effects of size and surface-to-volume ratio. <i>ACS Nano</i> , 2008 , 2, 2410-4	16.7	107
237	Nanoscale Transition Metal Dichalcogenides: Structures, Properties, and Applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2014 , 39, 319-367	10.1	106
236	Optical limiting properties of metal nanowires. <i>Applied Physics Letters</i> , 2006 , 88, 223106	3.4	95
235	Ab Initio Study on a Novel Photocatalyst: Functionalized Graphitic Carbon Nitride Nanotube. <i>ACS Catalysis</i> , 2011 , 1, 99-104	13.1	94
234	Co single-atom anchored on Co ₃ O ₄ and nitrogen-doped active carbon toward bifunctional catalyst for zinc-air batteries. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 118188	21.8	94
233	Hydrogen adsorption on and diffusion through MoS ₂ monolayer: First-principles study. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 14323-14328	6.7	92
232	3D heterostructured pure and N-Doped Ni ₃ S ₂ /VS ₂ nanosheets for high efficient overall water splitting. <i>Electrochimica Acta</i> , 2018 , 269, 55-61	6.7	91
231	Citric acid functionalized carbon materials for fuel cell applications. <i>Journal of Power Sources</i> , 2008 , 176, 70-75	8.9	91
230	Electronic and Magnetic Properties of Vanadium Dichalcogenides Monolayers Tuned by Hydrogenation. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13248-13253	3.8	87
229	Symmetrical negative differential resistance behavior of a resistive switching device. <i>ACS Nano</i> , 2012 , 6, 2517-23	16.7	87
228	Ultra-high electrochemical catalytic activity of MXenes. <i>Scientific Reports</i> , 2016 , 6, 32531	4.9	86
227	Single-crystal growth of metallic nanowires with preferred orientation. <i>Nanotechnology</i> , 2005 , 16, 1559-1564	3.4	85
226	An experimental and theoretical investigation of the anisotropic branching in gold nanocrosses. <i>Nanoscale</i> , 2016 , 8, 543-52	7.7	84
225	First-principles study on hydrogen storage by graphitic carbon nitride nanotubes. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 4170-4178	6.7	80
224	A first-principles study on the hydrogen evolution reaction of VS ₂ nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 24820-5	3.6	77
223	Two-Dimensional Janus Transition Metal Oxides and Chalcogenides: Multifunctional Properties for Photocatalysts, Electronics, and Energy Conversion. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35289-35295	9.5	77
222	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> , 2020 , 10, 2002464	21.8	76

221	Ab initio study of electronic and optical properties of multiwall carbon nanotube structures made up of a single rolled-up graphite sheet. <i>Physical Review B</i> , 2005 , 72,	3.3	75
220	Growth of Si nanowires by thermal evaporation. <i>Nanotechnology</i> , 2005 , 16, 417-421	3.4	73
219	Efficient nitrogen fixation to ammonia on MXenes. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 14504-14512	3.5	65
218	Biopolymer-chitosan based supramolecular hydrogels as solid state electrolytes for electrochemical energy storage. <i>Chemical Communications</i> , 2017 , 53, 1615-1618	5.8	64
217	Phase-Dependent Photocatalytic Ability of TiO ₂ : A First-Principles Study. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 3074-8	6.4	64
216	Hydrogen storage of ZnO and Mg doped ZnO nanowires. <i>Nanotechnology</i> , 2006 , 17, 2963-2967	3.4	63
215	Efficient coupling of a hierarchical V ₂ O ₅ @Ni ₃ S ₂ hybrid nanoarray for pseudocapacitors and hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 17954-17962	13	61
214	Electronic properties and lithium storage capacities of two-dimensional transition-metal nitride monolayers. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 21486-21493	13	60
213	Cross-linking of polymer and ionic liquid as high-performance gel electrolyte for flexible solid-state supercapacitors. <i>Electrochimica Acta</i> , 2017 , 244, 112-118	6.7	58
212	GaN/ZnO superlattice nanowires as photocatalyst for hydrogen generation: A first-principles study on electronic and magnetic properties. <i>Nano Energy</i> , 2012 , 1, 488-493	17.1	57
211	Vanadium disulfide decorated graphitic carbon nitride for super-efficient solar-driven hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 295-301	21.8	57
210	Exploring new two-dimensional monolayers: pentagonal transition metal borides/carbides (penta-TMB/Cs). <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10226-10232	13	56
209	Graphitic Carbon Nitride Nanotubes As Li-Ion Battery Materials: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9318-9323	3.8	54
208	Fabrication and characterization of brookite-rich, visible light-active TiO ₂ films for water splitting. <i>Applied Catalysis B: Environmental</i> , 2009 , 93, 90-95	21.8	52
207	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> , 2021 , 286, 119891	21.8	51
206	High-Performance Sodium-Ion Batteries Based on Nitrogen-Doped Mesoporous Carbon Spheres with Ultrathin Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2970-2977	9.5	51
205	Ab initio study of OH-functionalized single-wall carbon nanotubes. <i>Physical Review B</i> , 2004 , 70,	3.3	50
204	Electronic, Magnetic, and Catalytic Properties of Thermodynamically Stable Two-Dimensional Transition-Metal Phosphides. <i>Chemistry of Materials</i> , 2017 , 29, 8892-8900	9.6	49

203	WX /g-C N (WX =W C, WS , or W N) Composites for Highly Efficient Photocatalytic Water Splitting. <i>ChemSusChem</i> , 2019 , 12, 3355-3362	8.3	49
202	Hydrogenation-controlled phase transition on two-dimensional transition metal dichalcogenides and their unique physical and catalytic properties. <i>Scientific Reports</i> , 2016 , 6, 34186	4.9	49
201	Amorphous NiWO ₄ nanoparticles boosting the alkaline hydrogen evolution performance of Ni ₃ S ₂ electrocatalysts. <i>Applied Catalysis B: Environmental</i> , 2020 , 274, 119120	21.8	46
200	Novel CdS Nanostructures: Synthesis and Field Emission. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 11227-11236	3.8	46
199	Direct coherent multi-ink printing of fabric supercapacitors. <i>Science Advances</i> , 2021 , 7,	14.3	44
198	Carbonized MoS ₂ : Super-Active Co-Catalyst for Highly Efficient Water Splitting on CdS. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4220-4229	8.3	43
197	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> , 2019 , 55, 193-202	17.1	43
196	Aqueous rechargeable dual-ion battery based on fluoride ion and sodium ion electrochemistry. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8244-8250	13	41
195	Two-dimensional transition-metal oxide monolayers as cathode materials for Li and Na ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 7527-34	3.6	41
194	Constructing metallic nanoroads on a MoS ₂ monolayer via hydrogenation. <i>Nanoscale</i> , 2014 , 6, 1691-7	7.7	41
193	One-Pot Synthesis of Co-Doped VSe ₂ Nanosheets for Enhanced Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 644-653	6.1	41
192	Enhancement of room temperature ferromagnetism in C-doped ZnO films by nitrogen codoping. <i>Journal of Applied Physics</i> , 2009 , 105, 07C513	2.5	39
191	Magnetic and electronic evolutions of hydrogenated VTe ₂ monolayer under tension. <i>Scientific Reports</i> , 2014 , 4, 7524	4.9	38
190	Ab initio study of single-wall BC ₂ N nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	37
189	WS ₂ Nanosheets with Highly-Enhanced Electrochemical Activity by Facile Control of Sulfur Vacancies. <i>ChemCatChem</i> , 2019 , 11, 2667-2675	5.2	36
188	Electronic, magnetic, catalytic, and electrochemical properties of two-dimensional Janus transition metal chalcogenides. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8021-8029	13	36
187	Two-dimensional materials as novel co-catalysts for efficient solar-driven hydrogen production. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 23202-23230	13	36
186	Enhanced N ₂ -Fixation by Engineering the Edges of Two-Dimensional Transition-Metal Disulfides. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 22221-22227	3.8	35

185	N-Functionalized MXenes: ultrahigh carrier mobility and multifunctional properties. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28710-28717	3.6	34
184	Tension-Enhanced Hydrogen Evolution Reaction on Vanadium Disulfide Monolayer. <i>Nanoscale Research Letters</i> , 2016 , 11, 113	5	34
183	The resistive switching in TiO ₂ films studied by conductive atomic force microscopy and Kelvin probe force microscopy. <i>AIP Advances</i> , 2013 , 3, 082107	1.5	34
182	Ab initio study on noncompensated CrO codoping of GaN for enhanced solar energy conversion. <i>Journal of Chemical Physics</i> , 2010 , 132, 104501	3.9	34
181	Highly improved electrocatalytic activity of NiS _x : Effects of Cr-doping and phase transition. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118721	21.8	34
180	Development of Electrocatalysts for Efficient Nitrogen Reduction Reaction under Ambient Condition. <i>Advanced Functional Materials</i> , 2021 , 31, 2008983	15.6	34
179	Electronic state optimization for electrochemical N ₂ reduction reaction in aqueous solution. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 13896-13915	13	32
178	A new ether-based electrolyte for lithium sulfur batteries using a S@pPAN cathode. <i>Chemical Communications</i> , 2018 , 54, 5478-5481	5.8	31
177	Hydrogen adsorption by tungsten carbide nanotube. <i>Applied Physics Letters</i> , 2007 , 90, 223104	3.4	31
176	BC ₂ N monolayers as promising anchoring materials for lithium-sulfur batteries: First-principles insights. <i>Carbon</i> , 2019 , 149, 530-537	10.4	30
175	2D materials: Excellent substrates for surface-enhanced Raman scattering (SERS) in chemical sensing and biosensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2020 , 130, 115983	14.6	30
174	Nitrogen-Doped Graphene Quantum Dots for Remarkable Solar Hydrogen Production. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5322-5332	6.1	29
173	Designing Efficient Dual-Metal Single-Atom Electrocatalyst TMZnN ₆ (TM = Mn, Fe, Co, Ni, Cu, Zn) for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11301-11307	3.8	29
172	First-principles study of optical spectra of single-wall BC ₂ N nanotubes. <i>Physical Review B</i> , 2006 , 73,	3.3	29
171	Electroluminescence and field emission of Mg-doped ZnO tetrapods. <i>Nanotechnology</i> , 2006 , 17, 5096-5100	3.0	29
170	Optimization the energy density and efficiency of BaTiO ₃ -based ceramics for capacitor applications. <i>Chemical Engineering Journal</i> , 2021 , 409, 127375	14.7	29
169	In Situ Hybridizing MoS ₂ Microflowers on VS ₂ Microflakes in a One-Pot CVD Process for Electrolytic Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5799-5808	6.1	28
168	Effect of Doping on Hydrogen Evolution Reaction of Vanadium Disulfide Monolayer. <i>Nanoscale Research Letters</i> , 2015 , 10, 480	5	28

167	FUNCTIONALIZATION EFFECT ON THE ELECTRONIC PROPERTIES OF SINGLE WALLED CARBON NANOTUBES. <i>Functional Materials Letters</i> , 2008 , 01, 1-6	1.2	28
166	Two-Dimensional Layered Materials: High-Efficient Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Applied Nano Materials</i> , 2020 , 3, 6270-6296	5.6	27
165	Electronic properties of tin dichalcogenide monolayers and effects of hydrogenation and tension. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3714-3721	7.1	27
164	Double-coated Si-based composite composed with carbon layer and graphene sheets with void spaces for lithium-ion batteries. <i>Electrochimica Acta</i> , 2018 , 288, 134-143	6.7	26
163	Controllable magnetic property of SiC by anion-cation codoping. <i>Applied Physics Letters</i> , 2010 , 96, 192519-4	9.4	25
162	Stimulated emission of CdS nanowires grown by thermal evaporation. <i>Applied Physics Letters</i> , 2007 , 91, 193105	3.4	25
161	Ultra-flexibility and unusual electronic, magnetic and chemical properties of waved graphenes and nanoribbons. <i>Scientific Reports</i> , 2014 , 4, 4198	4.9	24
160	Ultrafine WC1 \square Nanocrystals: An Efficient Cocatalyst for the Significant Enhancement of Photocatalytic Hydrogen Evolution on g-C3N4. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26136-26144	3.8	24
159	Tension-Tailored Electronic and Magnetic Switching of 2D Ti2NO2. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25729-25735	3.8	24
158	Electronic and Magnetic Properties of Graphene/Fluorographene Superlattices. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 18278-18283	3.8	24
157	Reducing Oxygen Evolution Reaction Overpotential in Cobalt-Based Electrocatalysts via Optimizing the "Microparticles-in-Spider Web" Electrode Configurations. <i>Small</i> , 2020 , 16, e1907029	11	23
156	Electronic Structures of AlGa ₂ N ₂ Nanotubes and AlN-GaN Nanotube Superlattice. <i>Journal of Chemical Theory and Computation</i> , 2008 , 4, 703-7	6.4	22
155	Enhancement thermal stability of polyetherimide-based nanocomposites for applications in energy storage. <i>Composites Science and Technology</i> , 2021 , 201, 108501	8.6	22
154	Phase-driven magneto-electrical characteristics of single-layer MoS ₂ . <i>Nanoscale</i> , 2016 , 8, 5627-33	7.7	21
153	PLD-fabricated perovskite oxide nanofilm as efficient electrocatalyst with highly enhanced water oxidation performance. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 119046	21.8	20
152	Ferroelectric control of single-molecule magnetism in 2D limit. <i>Science Bulletin</i> , 2020 , 65, 1252-1259	10.6	20
151	Two-dimensional pentagonal CrX (X = S, Se or Te) monolayers: antiferromagnetic semiconductors for spintronics and photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 18348-18354	3.6	20
150	Theoretical Screening of Single Atoms Supported on Two-Dimensional Nb ₂ CN ₂ for Nitrogen Fixation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 11274-11281	5.6	20

149	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> , 2021 , 23, 3144-3151	3.6	20
148	Cobalt-Vanadium Hydroxide Nanoneedles with a Free-Standing Structure as High-Performance Oxygen Evolution Reaction Electrocatalysts. <i>ChemElectroChem</i> , 2019 , 6, 2050-2055	4.3	19
147	Bandgap engineering of oxygen-rich TiO _{2+x} for photocatalyst with enhanced visible-light photocatalytic ability. <i>Journal of Materials Science</i> , 2015 , 50, 4324-4329	4.3	19
146	Vertically-aligned 1T/2H-MS ₂ (M = Mo, W) nanosheets for surface-enhanced Raman scattering with long-term stability and large-scale uniformity. <i>Applied Surface Science</i> , 2020 , 527, 146769	6.7	19
145	A First-Principles Study on the Structural and Electronic Properties of Sn-Based Organic-Inorganic Halide Perovskites. <i>Journal of Electronic Materials</i> , 2016 , 45, 5956-5966	1.9	19
144	Multi-Phase Heterostructure of CoNiP/Co P for Enhanced Hydrogen Evolution Under Alkaline and Seawater Conditions by Promoting H ₂ O Dissociation. <i>Small</i> , 2021 , 17, e2007557	11	19
143	On the notch sensitivity of CuZr nanoglass. <i>Journal of Applied Physics</i> , 2014 , 115, 163507	2.5	18
142	Ab initio design of GaN-based photocatalyst: ZnO-codoped GaN nanotubes. <i>Journal of Power Sources</i> , 2013 , 232, 323-331	8.9	18
141	Quantum correlations of coupled superconducting two-qubit system in various cavity environments. <i>Physica C: Superconductivity and Its Applications</i> , 2013 , 495, 88-108	1.3	18
140	Metal-functionalized single-walled graphitic carbon nitride nanotubes: a first-principles study on magnetic property. <i>Nanoscale Research Letters</i> , 2011 , 6, 97	5	18
139	Electrical-bridge model on the self-organized growth of nanopores in anodized aluminum oxide. <i>IEEE Nanotechnology Magazine</i> , 2004 , 3, 462-467	2.6	18
138	Close-loop recycling of perovskite solar cells through dissolution-recrystallization of perovskite by butylamine. <i>Cell Reports Physical Science</i> , 2021 , 2, 100341	6.1	18
137	N and V Coincorporated Ni Nanosheets for Enhanced Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 16525-16531	8.3	18
136	Engineering highly active Ag/Nb ₂ O ₅ @Nb ₂ CT (MXene) photocatalysts via steering charge kinetics strategy. <i>Chemical Engineering Journal</i> , 2021 , 421, 128766	14.7	18
135	Defining the composition and electronic structure of large-scale and single-crystalline like Cs ₂ AgBiBr ₆ films fabricated by capillary-assisted dip-coating method. <i>Materials Today Energy</i> , 2019 , 12, 186-197	7	17
134	Ultrahigh breakdown strength and energy density of polymer nanocomposite containing surface insulated BCZT@BN nanofibers. <i>Composites Science and Technology</i> , 2020 , 195, 108209	8.6	16
133	Development of Perovskite Oxide-Based Electrocatalysts for Oxygen Evolution Reaction. <i>Small</i> , 2021 , 17, e2101605	11	16
132	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> , 2021 , 9, 12009-12018	13	16

131	Effect of Curvature on the Hydrogen Evolution Reaction of Graphene. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 25331-25338	3.8	16
130	Active oxygen species on Mg/La mixed oxides: the effect of Mg and La oxide interactions. <i>Catalysis Science and Technology</i> , 2017 , 7, 797-801	5.5	15
129	Structural and Electronic Properties of Two-Dimensional Organic/Inorganic Halide Perovskites and their Stability against Moisture. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 5844-5853	3.8	15
128	High-performance supercapacitors based on superior Co ₃ O ₄ nanorods electrode for integrated energy harvesting-storage system. <i>Electrochimica Acta</i> , 2018 , 282, 905-912	6.7	15
127	Ab initio study on the effects of dopant-defect cluster on the electronic properties of TiO ₂ -based photocatalysts. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 2049-2055	6.7	15
126	The nature of the atomic-level structure in the Cu/Zr binary metallic glasses. <i>Intermetallics</i> , 2012 , 26, 8-10	3.5	15
125	Waved graphene: Unique structure for the adsorption of small molecules. <i>Materials Chemistry and Physics</i> , 2017 , 189, 111-117	4.4	14
124	Mo incorporated Ni nanosheet as high-efficiency co-catalyst for enhancing the photocatalytic hydrogen production of g-C ₃ N ₄ . <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 18912-18921	6.7	14
123	Effects of non-metal dopants and defects on electronic properties of barium titanate as photocatalyst. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 4766-4776	6.7	13
122	Design of novel pentagonal 2D transitional-metal sulphide monolayers for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 16201-16209	6.7	13
121	Photoresponse of nonvolatile resistive memory device based on all-inorganic perovskite CsPbBr ₃ nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 125103	3	13
120	Ab initio study of F- and Cl-functionalized single wall carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 5175-5184	1.8	13
119	Vanadium self-intercalated C/V _{1.11} S ₂ nanosheets with abundant active sites for enhanced electro-catalytic hydrogen evolution. <i>Electrochimica Acta</i> , 2019 , 300, 208-216	6.7	12
118	H/dT-MoS ₂ -on-MXene Heterostructures as Promising 2D Anode Materials for Lithium-Ion Batteries: Insights from First Principles. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900045	3.5	12
117	Observable Berry Phase for Charge Qubit in a Dissipative Environment. <i>International Journal of Theoretical Physics</i> , 2012 , 51, 2850-2856	1.1	12
116	Combined Experimental and Theoretical Assessment of WX _y (X = C, N, S, P) for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 1082-1088	6.1	12
115	Single transition metal atom catalysts on Ti ₂ CN ₂ for efficient CO ₂ reduction reaction. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 12886-12896	6.7	12
114	Engineering carbon-shells of M@NC bifunctional oxygen electrocatalyst towards stable aqueous rechargeable Zn-air batteries. <i>Chemical Engineering Journal</i> , 2021 , 418, 129409	14.7	12

113	Design of pentagonal NbX monolayers for electronics and electrocatalysis. <i>Applied Surface Science</i> , 2019 , 479, 595-600	6.7	11
112	Waved 2D Transition-Metal Disulfides for Nanodevices and Catalysis: A First-Principle Study. <i>ACS Applied Nano Materials</i> , 2020 , 3, 2804-2812	5.6	11
111	Dynamic evolution for liquid-state nuclear spins and Berry phase of mixed state in a magnetic resonance. <i>Journal of Magnetic Resonance</i> , 2012 , 223, 25-30	3	11
110	Morphology Controllable ZnO Growth on Facet-Controlled Epitaxial Lateral Overgrown GaN/Sapphire Templates. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6405-6410	3.8	11
109	Two-step solvent post-treatment on PTAA for highly efficient and stable inverted perovskite solar cells. <i>Photonics Research</i> , 2020 , 8, A39	6	11
108	Coordination of π -Delocalization in g-CN for Efficient Photocatalytic Hydrogen Evolution under Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 20114-20124	9.5	11
107	Substantially improved energy storage capability of ferroelectric thin films for application in high-temperature capacitors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9281-9290	13	11
106	Remarkable synergistic effect in cobalt-iron nitride/alloy nanosheets for robust electrochemical water splitting. <i>Journal of Energy Chemistry</i> , 2022 , 65, 405-414	12	11
105	Boron nitride and carbon double-wall hetero-nanotubes: first-principles calculation of electronic properties. <i>Nanotechnology</i> , 2008 , 19, 095707	3.4	10
104	Photoluminescence and optical limiting properties of silicon nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 733-7	1.3	10
103	Optical and field emission properties of Zinc Oxide nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 1683-7	1.3	10
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