

# Quyet Van Le

## List of Publications by Citations

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234  
papers

5,291  
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251  
ext. papers

8,008  
ext. citations

6.7  
avg, IF

6.63  
L-index

#	Paper	IF	Citations
234	Valorization of biomass waste to engineered activated biochar by microwave pyrolysis: Progress, challenges, and future directions. <i>Chemical Engineering Journal</i> , <b>2020</b> , 389, 124401	14.7	254
233	Carbon and graphene quantum dots: a review on syntheses, characterization, biological and sensing applications for neurotransmitter determination.. <i>RSC Advances</i> , <b>2020</b> , 10, 15406-15429	3.7	177
232	Recent Advances toward High-Efficiency Halide Perovskite Light-Emitting Diodes: Review and Perspective. <i>Small Methods</i> , <b>2018</b> , 2, 1700419	12.8	145
231	Air-Stable Cesium Lead Iodide Perovskite for Ultra-Low Operating Voltage Resistive Switching. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705783	15.6	130
230	Silk Fibroin-Based Biomaterials for Biomedical Applications: A Review. <i>Polymers</i> , <b>2019</b> , 11,	4.5	121
229	Low-dimensional halide perovskites: review and issues. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 2189-2209	7.0	113
228	Enhanced Endurance Organolead Halide Perovskite Resistive Switching Memories Operable under an Extremely Low Bending Radius. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 30764-30771	9.5	109
227	Inhibition of Ion Migration for Reliable Operation of Organolead Halide Perovskite-Based Metal/Semiconductor/Metal Broadband Photodetectors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4213-4222	15.6	97
226	Two-dimensional materials as catalysts for solar fuels: hydrogen evolution reaction and CO <sub>2</sub> reduction. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 430-454	13	87
225	Fundamentals of Electrochemical CO <sub>2</sub> Reduction on Single-Metal-Atom Catalysts. <i>ACS Catalysis</i> , <b>2020</b> , 10, 10068-10095	13.1	82
224	Atomically thin two-dimensional materials as hole extraction layers in organolead halide perovskite photovoltaic cells. <i>Journal of Power Sources</i> , <b>2016</b> , 319, 1-8	8.9	78
223	Lead-Free All-Inorganic Cesium Tin Iodide Perovskite for Filamentary and Interface-Type Resistive Switching toward Environment-Friendly and Temperature-Tolerant Nonvolatile Memories. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 8155-8163	9.5	76
222	Synthesis of atomically thin transition metal disulfides for charge transport layers in optoelectronic devices. <i>ACS Nano</i> , <b>2015</b> , 9, 4146-55	16.7	76
221	The use of UV/ozone-treated MoS <sub>2</sub> nanosheets for extended air stability in organic photovoltaic cells. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 13123-8	3.6	76
220	Performances of Liquid-Exfoliated Transition Metal Dichalcogenides as Hole Injection Layers in Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4512-4519	15.6	69
219	Recent Advances in TiO <sub>2</sub> -Based Photocatalysts for Reduction of CO to Fuels. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	65
218	Novel Architecture Titanium Carbide (TiCT) MXene Cocatalysts toward Photocatalytic Hydrogen Production: A Mini-Review. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	63

217	Use of silane-functionalized graphene oxide in organic photovoltaic cells and organic light-emitting diodes. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 9369-74	3.6	62
216	Recent developments in conducting polymers: applications for electrochemistry.. <i>RSC Advances</i> , <b>2020</b> , 10, 37834-37856	3.7	61
215	Investigation of Energy Levels and Crystal Structures of Cesium Lead Halides and Their Application in Full-Color Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600448	6.4	60
214	Recent progress in TiO <sub>2</sub> -based photocatalysts for hydrogen evolution reaction: A review. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 3653-3671	5.9	58
213	MXenes: Applications in electrocatalytic, photocatalytic hydrogen evolution reaction and CO <sub>2</sub> reduction. <i>Molecular Catalysis</i> , <b>2020</b> , 486, 110850	3.3	57
212	Recent Electrochemical Applications of Metal-Organic Framework-Based Materials. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 7034-7064	3.5	57
211	Towards artificial photosynthesis: Sustainable hydrogen utilization for photocatalytic reduction of CO <sub>2</sub> to high-value renewable fuels. <i>Chemical Engineering Journal</i> , <b>2020</b> , 402, 126184	14.7	55
210	Recent advances on water disinfection using bismuth based modified photocatalysts: Strategies and challenges. <i>Journal of Cleaner Production</i> , <b>2021</b> , 297, 126617	10.3	53
209	Polarized Light-Emitting Diodes Based on Patterned MoS Nanosheet Hole Transport Layer. <i>Advanced Materials</i> , <b>2017</b> , 29, 1702598	24	52
208	Transition metal oxide-based electrode materials for flexible supercapacitors: A review. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 857, 158281	5.7	51
207	Step-scheme heterojunction photocatalysts for solar energy, water splitting, CO <sub>2</sub> conversion, and bacterial inactivation: a review. <i>Environmental Chemistry Letters</i> , <b>2021</b> , 19, 2941-2966	13.3	48
206	Electron microscopy investigation of spark plasma sintered ZrO <sub>2</sub> added ZrB <sub>2</sub> SiC composite. <i>Ceramics International</i> , <b>2020</b> , 46, 19646-19649	5.1	47
205	UV/ozone-treated WS <sub>2</sub> hole-extraction layer in organic photovoltaic cells. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2014</b> , 8, 390-394	2.5	47
204	Enzymatic conversion of pretreated lignocellulosic biomass: A review on influence of structural changes of lignin. <i>Bioresource Technology</i> , <b>2021</b> , 324, 124631	11	47
203	The role of metal dopants in WS <sub>2</sub> nanoflowers in enhancing the hydrogen evolution reaction. <i>Applied Catalysis A: General</i> , <b>2018</b> , 567, 73-79	5.1	47
202	Extended Metal-Organic Frameworks on Diverse Supports as Electrode Nanomaterials for Electrochemical Energy Storage. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 3964-3990	5.6	46
201	Influence of SiAlON addition on the microstructure development of hot-pressed ZrB <sub>2</sub> SiC composites. <i>Ceramics International</i> , <b>2020</b> , 46, 19209-19216	5.1	44
200	Role of nano-diamond addition on the characteristics of spark plasma sintered TiC ceramics. <i>Diamond and Related Materials</i> , <b>2020</b> , 106, 107828	3.5	43

199	Densification behavior and microstructure development in TiB <sub>2</sub> ceramics doped with h-BN. <i>Ceramics International</i> , <b>2020</b> , 46, 18970-18975	5.1	40
198	High capacity oil absorbent wood prepared through eco-friendly deep eutectic solvent delignification. <i>Chemical Engineering Journal</i> , <b>2020</b> , 401, 126150	14.7	40
197	Tailored photocatalysts and revealed reaction pathways for photodegradation of polycyclic aromatic hydrocarbons (PAHs) in water, soil and other sources. <i>Chemosphere</i> , <b>2020</b> , 260, 127529	8.4	40
196	Dual-Phase All-Inorganic Cesium Halide Perovskites for Conducting-Bridge Memory-Based Artificial Synapses. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1906686	15.6	39
195	Characterization of spark plasma sintered TiC ceramics reinforced with graphene nano-platelets. <i>Ceramics International</i> , <b>2020</b> , 46, 18742-18749	5.1	39
194	Dual use of tantalum disulfides as hole and electron extraction layers in organic photovoltaic cells. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 25468-72	3.6	39
193	Recent advances in the application of two-dimensional materials as charge transport layers in organic and perovskite solar cells. <i>FlatChem</i> , <b>2017</b> , 2, 54-66	5.1	38
192	Mainstream avenues for boosting graphitic carbon nitride efficiency: towards enhanced solar light-driven photocatalytic hydrogen production and environmental remediation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10571-10603	13	38
191	Direct synthesis of two-dimensional MoS <sub>2</sub> on p-type Si and application to solar hydrogen production. <i>NPG Asia Materials</i> , <b>2019</b> , 11,	10.3	37
190	Quasi-2D halide perovskites for resistive switching devices with ON/OFF ratios above 10 <sup>9</sup> . <i>NPG Asia Materials</i> , <b>2020</b> , 12,	10.3	37
189	Photocatalytic NO <sub>x</sub> abatement: Recent advances and emerging trends in the development of photocatalysts. <i>Journal of Cleaner Production</i> , <b>2020</b> , 270, 121912	10.3	36
188	Microstructural and mechanical characterization of spark plasma sintered TiC ceramics with TiN additive. <i>Ceramics International</i> , <b>2020</b> , 46, 18924-18932	5.1	35
187	Perovskite oxide-based photocatalysts for solar-driven hydrogen production: Progress and perspectives. <i>Solar Energy</i> , <b>2020</b> , 211, 584-599	6.8	35
186	Structural Investigation of Cesium Lead Halide Perovskites for High-Efficiency Quantum Dot Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 4140-4147	6.4	33
185	Facile synthesis of WS <sub>2</sub> hollow spheres and their hydrogen evolution reaction performance. <i>Applied Surface Science</i> , <b>2020</b> , 505, 144574	6.7	33
184	Facile Solution Synthesis of Tungsten Trioxide Doped with Nanocrystalline Molybdenum Trioxide for Electrochromic Devices. <i>Scientific Reports</i> , <b>2017</b> , 7, 13258	4.9	32
183	Developments and applications of nanomaterial-based carbon paste electrodes.. <i>RSC Advances</i> , <b>2020</b> , 10, 21561-21581	3.7	32
182	Enhanced fracture toughness of ZrB <sub>2</sub> /Bi <sub>2</sub> Cw ceramics with graphene nano-platelets. <i>Ceramics International</i> , <b>2020</b> , 46, 24906-24915	5.1	32

181	Halide Perovskite Quantum Dots for Light-Emitting Diodes: Properties, Synthesis, Applications, and Outlooks. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800335	6.4	32
180	Characteristics of quadruplet TiMoTiB <sub>2</sub> TiC composites prepared by spark plasma sintering. <i>Ceramics International</i> , <b>2020</b> , 46, 20885-20895	5.1	31
179	A review on valorization of oyster mushroom and waste generated in the mushroom cultivation industry. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 400, 123156	12.8	30
178	Graphene-based catalysts for electrochemical carbon dioxide reduction <b>2020</b> , 2, 158-175		30
177	Beneficial role of carbon black on the properties of TiC ceramics. <i>Ceramics International</i> , <b>2020</b> , 46, 23544-23555	5.3	30
176	Sustainable and green trends in using plant extracts for the synthesis of biogenic metal nanoparticles toward environmental and pharmaceutical advances: A review. <i>Environmental Research</i> , <b>2021</b> , 202, 111622	7.9	30
175	An efficient hydrogenation catalytic model hosted in a stable hyper-crosslinked porous-organic-polymer: from fatty acid to bio-based alkane diesel synthesis. <i>Green Chemistry</i> , <b>2020</b> , 22, 2049-2068	10	29
174	Two-dimensional materials and metal-organic frameworks for the CO <sub>2</sub> reduction reaction. <i>Materials Today Advances</i> , <b>2020</b> , 5, 100038	7.4	29
173	Recent Advances in Electrochemical Sensors and Biosensors for Detecting Bisphenol A. <i>Sensors</i> , <b>2020</b> , 20,	3.8	28
172	Novel Z-Scheme ZnIn <sub>2</sub> S <sub>4</sub> -based photocatalysts for solar-driven environmental and energy applications: Progress and perspectives. <i>Journal of Materials Science and Technology</i> , <b>2021</b> , 87, 234-257	9.1	28
171	Physical, mechanical and microstructural characterization of TiC <sub>x</sub> N ceramics. <i>Ceramics International</i> , <b>2020</b> , 46, 22154-22163	5.1	27
170	Facile synthesis of W <sub>2</sub> C@WS <sub>2</sub> alloy nanoflowers and their hydrogen generation performance. <i>Applied Surface Science</i> , <b>2020</b> , 504, 144389	6.7	27
169	Surface extension of MeS <sub>2</sub> (Me=Mo or W) nanosheets by embedding MeS <sub>x</sub> for hydrogen evolution reaction. <i>Electrochimica Acta</i> , <b>2018</b> , 292, 136-141	6.7	26
168	Enhanced densification of spark plasma sintered TiB <sub>2</sub> ceramics with low content AlN additive. <i>Ceramics International</i> , <b>2020</b> , 46, 22127-22133	5.1	25
167	Halide perovskite photocatalysis: progress and perspectives. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2020</b> , 95, 2579	3.5	25
166	In situ preparation of g-CN nanosheet/FeOCl: Achievement and promoted photocatalytic nitrogen fixation activity. <i>Journal of Colloid and Interface Science</i> , <b>2021</b> , 587, 538-549	9.3	25
165	TEMPO-oxidized cellulose nanofibers/polyacrylamide hybrid hydrogel with intrinsic self-recovery and shape memory properties. <i>Cellulose</i> , <b>2021</b> , 28, 1469-1488	5.5	25
164	Novel p-n Heterojunction Nanocomposite: TiO <sub>2</sub> QDs/ZnBi <sub>2</sub> O <sub>4</sub> Photocatalyst with Considerably Enhanced Photocatalytic Activity under Visible-Light Irradiation. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 27519-27528	3.8	24

163	Role of co-addition of BN and SiC on microstructure of TiB <sub>2</sub> -based composites densified by SPS method. <i>Ceramics International</i> , <b>2020</b> , 46, 25341-25350	5.1	24
162	Fabrication of a WS <sub>2</sub> /p-Si Heterostructure Photocathode Using Direct Hybrid Thermolysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 29910-29916	9.5	23
161	Bottom-Up Synthesis of MeS <sub>x</sub> Nanodots for Optoelectronic Device Applications. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 1796-1804	8.1	23
160	2D and Quasi-2D Halide Perovskites: Applications and Progress. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2020</b> , 14, 1900435	2.5	23
159	Sustainable carbonaceous biochar adsorbents derived from agro-wastes and invasive plants for cation dye adsorption from water. <i>Chemosphere</i> , <b>2021</b> , 282, 131009	8.4	23
158	The emerging covalent organic frameworks (COFs) for solar-driven fuels production. <i>Coordination Chemistry Reviews</i> , <b>2021</b> , 446, 214117	23.2	23
157	Submerged photocatalytic membrane reactor with suspended and immobilized N-doped TiO <sub>2</sub> under visible irradiation for diclofenac removal from wastewater. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 142, 229-237	5.5	22
156	MoS <sub>2</sub> Nanosheets Exfoliated by Sonication and Their Application in Organic Photovoltaic Cells. <i>Science of Advanced Materials</i> , <b>2015</b> , 7, 700-705	2.3	22
155	Electron microscopy characterization of porous ZrB <sub>2</sub> /SiC/AlN composites prepared by pressureless sintering. <i>Ceramics International</i> , <b>2020</b> , 46, 25415-25423	5.1	22
154	A novel TiC-based composite co-strengthened with AlN particulates and graphene nano-platelets. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2020</b> , 92, 105331	4.1	21
153	Piezoelectric PAN/BaTiO <sub>3</sub> nanofiber membranes sensor for structural health monitoring of real-time damage detection in composite. <i>Composites Communications</i> , <b>2021</b> , 25, 100680	6.7	21
152	Metal-organic framework-derived MoS <sub>x</sub> composites as efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 852, 156952	5.7	21
151	Hydrogen production and heavy metal immobilization using hyperaccumulators in supercritical water gasification. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 402, 123541	12.8	21
150	Phytoremediation of radionuclides in soil, sediments and water. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 407, 124771	12.8	21
149	Effect of ultrasonic pretreatment on chain elongation of saccharified residue from food waste by anaerobic fermentation. <i>Environmental Pollution</i> , <b>2021</b> , 268, 115936	9.3	21
148	Recent developments in electrochemical sensors for detecting hydrazine with different modified electrodes.. <i>RSC Advances</i> , <b>2020</b> , 10, 30481-30498	3.7	20
147	MoSe <sub>2</sub> /GO/rGO Composite Catalyst for Hydrogen Evolution Reaction. <i>Polymers</i> , <b>2018</b> , 10,	4.5	20
146	Hierarchical molybdenum disulfide on carbon nanotube-reduced graphene oxide composite paper as efficient catalysts for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 823, 153897	5.7	19



145	Role of hot-pressing temperature on densification and microstructure of ZrB <sub>2</sub> SiC ultrahigh temperature ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2020</b> , 93, 105355	4.1	19
144	Enhanced visible photocatalytic degradation of diclofenac over N-doped TiO <sub>2</sub> assisted with H <sub>2</sub> O <sub>2</sub> : A kinetic and pathway study. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 8361-8371	5.9	18
143	Nanoindentational and conventional mechanical properties of spark plasma sintered TiMo alloys. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 10647-10658	5.5	18
142	Microstructural, mechanical and friction properties of nano-graphite and h-BN added TiC-based composites. <i>Ceramics International</i> , <b>2020</b> , 46, 28969-28979	5.1	18
141	Ni <sub>3</sub> Se <sub>4</sub> @MoSe <sub>2</sub> Composites for Hydrogen Evolution Reaction. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 5035	2.6	18
140	Realizing Catalytic Acetophenone Hydrodeoxygenation with Palladium-Equipped Porous Organic Polymers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 50550-50565	9.5	17
139	Leaf Extract Mediated Synthesis of Zinc Oxide Nanoparticles: Assessment of Antimicrobial and Anticancer Activity. <i>Molecules</i> , <b>2020</b> , 25,	4.8	17
138	Recent Advances in the Aptamer-Based Electrochemical Biosensors for Detecting Aflatoxin B1 and Its Pertinent Metabolite Aflatoxin M1. <i>Sensors</i> , <b>2020</b> , 20,	3.8	16
137	La-doped cobalt supported on mesoporous alumina catalysts for improved methane dry reforming and coke mitigation. <i>Journal of the Energy Institute</i> , <b>2020</b> , 93, 1571-1580	5.7	16
136	SnO <sub>2</sub> @WS <sub>2</sub> /p-Si Heterostructure Photocathode for Photoelectrochemical Hydrogen Production. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 647-652	3.8	16
135	Electron microscopy study of ZrB <sub>2</sub> SiC/AlN composites: Hot-pressing vs. pressureless sintering. <i>Ceramics International</i> , <b>2020</b> , 46, 29334-29338	5.1	16
134	Double transition metal MXene (TiTaC) 2D materials as anodes for Li-ion batteries. <i>Scientific Reports</i> , <b>2021</b> , 11, 688	4.9	16
133	g-C <sub>3</sub> N <sub>4</sub> nanosheet adorned with Ag <sub>3</sub> BiO <sub>3</sub> as a perovskite: An effective photocatalyst for efficient visible-light photocatalytic processes. <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 125, 105651	4.3	15
132	A review of dietary phytochemicals and their relation to oxidative stress and human diseases. <i>Chemosphere</i> , <b>2021</b> , 271, 129499	8.4	15
131	Flexible bacterial cellulose-based BC-SiO <sub>2</sub> -TiO <sub>2</sub> -Ag membranes with self-cleaning, photocatalytic, antibacterial and UV-shielding properties as a potential multifunctional material for combating infections and environmental applications. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104708	6.8	15
130	Artificial leaf for light-driven CO <sub>2</sub> reduction: Basic concepts, advanced structures and selective solar-to-chemical products. <i>Chemical Engineering Journal</i> , <b>2022</b> , 430, 133031	14.7	14
129	Lead-Free Dual-Phase Halide Perovskites for Preconditioned Conducting-Bridge Memory. <i>Small</i> , <b>2020</b> , 16, e2003225	11	14
128	Progress on the photocatalytic reduction of hexavalent Cr (VI) using engineered graphitic carbon nitride. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 152, 663-678	5.5	14

127	(NH <sub>4</sub> ) <sub>2</sub> WS <sub>4</sub> precursor as a hole-injection layer in organic optoelectronic devices. <i>Chemical Engineering Journal</i> , <b>2016</b> , 284, 285-293	14.7	13
126	A thorough study on electrochromic properties of metal doped tungsten trioxide film prepared by a facile solution process. <i>Electrochimica Acta</i> , <b>2018</b> , 283, 1195-1202	6.7	13
125	Tailoring photocatalysts and elucidating mechanisms of photocatalytic degradation of perfluorocarboxylic acids (PFCAs) in water: a comparative overview. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2020</b> , 95, 2569	3.5	13
124	Recent trends in development of hematite (Fe <sub>2</sub> O <sub>3</sub> ) as an efficient photoanode for enhancement of photoelectrochemical hydrogen production by solar water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 46, 23334-23334	6.7	13
123	Boosting light-driven CO reduction into solar fuels: Mainstream avenues for engineering ZnO-based photocatalysts. <i>Environmental Research</i> , <b>2021</b> , 197, 111134	7.9	13
122	Z-scheme g-C <sub>3</sub> N <sub>4</sub> nanosheet/MgBi <sub>2</sub> O <sub>6</sub> systems with the visible light response for impressive photocatalytic organic contaminants degradation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2021</b> , 406, 113023	4.7	13
121	A roadmap towards the development of superior photocatalysts for solar-driven CO <sub>2</sub> -to-fuels production. <i>Renewable and Sustainable Energy Reviews</i> , <b>2021</b> , 148, 111298	16.2	13
120	CdSe Quantum Dots Doped WS <sub>2</sub> Nanoflowers for Enhanced Solar Hydrogen Production. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1800853	1.6	12
119	Recent advances in two-dimensional transition metal dichalcogenides as photoelectrocatalyst for hydrogen evolution reaction. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2020</b> , 95, 2597	3.5	12
118	Influence of molybdenum content on the microstructure of spark plasma sintered titanium alloys. <i>Synthesis and Sintering</i> , <b>2021</b> , 1, 41-47		12
117	Multi-walled carbon nanotube-based nanobiosensor for the detection of cadmium in water. <i>Environmental Research</i> , <b>2021</b> , 197, 111148	7.9	12
116	A novel spark plasma sintered TiC <sub>z</sub> rN <sub>1</sub> composite with enhanced flexural strength. <i>Ceramics International</i> , <b>2020</b> , 46, 29022-29032	5.1	11
115	Light-driven reduction of carbon dioxide: Altering the reaction pathways and designing photocatalysts toward value-added and renewable fuels. <i>Chemical Engineering Science</i> , <b>2021</b> , 237, 116547	4.4	11
114	Advanced synthesis of MXene-derived nanoflower-shaped TiO <sub>2</sub> @Ti <sub>3</sub> C <sub>2</sub> heterojunction to enhance photocatalytic degradation of Rhodamine B. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 21, 101286	7	11
113	Recent development of high-performance photocatalysts for N <sub>2</sub> fixation: A review. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 104997	6.8	11
112	Tungsten Trioxide Doped with CdSe Quantum Dots for Smart Windows. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 43785-43791	9.5	11
111	Advances and recent trends in cobalt-based cocatalysts for solar-to-fuel conversion. <i>Applied Materials Today</i> , <b>2021</b> , 24, 101074	6.6	11
110	Biosorbent derived from coffee husk for efficient removal of toxic heavy metals from wastewater. <i>Chemosphere</i> , <b>2021</b> , 284, 131312	8.4	11



109	Emerging cocatalysts in TiO <sub>2</sub> -based photocatalysts for light-driven catalytic hydrogen evolution: Progress and perspectives. <i>Fuel</i> , <b>2022</b> , 307, 121745	7.1	11
108	Manufacturing ZrB-SiC-TaC Composite: Potential Application for Aircraft Wing Assessed by Frequency Analysis through Finite Element Model. <i>Materials</i> , <b>2020</b> , 13,	3.5	10
107	Low Temperature Solution-Processable Cesium Lead Bromide Microcrystals for Light Conversion. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 3161-3166	3.5	10
106	Recent Progress in Carbon-Based Buffer Layers for Polymer Solar Cells. <i>Polymers</i> , <b>2019</b> , 11,	4.5	10
105	Recent Advances in the Electrochemical Sensing of Venlafaxine: An Antidepressant Drug and Environmental Contaminant. <i>Sensors</i> , <b>2020</b> , 20,	3.8	10
104	Ligand-Assisted Sulfide Surface Treatment of CsPbI <sub>3</sub> Perovskite Quantum Dots to Increase Photoluminescence and Recovery. <i>ACS Photonics</i> , <b>2021</b> , 8, 1979-1987	6.3	10
103	Characterization of spark plasma sintered TiC/Bi <sub>3</sub> N <sub>4</sub> ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2021</b> , 95, 105444	4.1	10
102	Production of three-dimensional fiber needle-punching composites from denim waste for utilization as furniture materials. <i>Journal of Cleaner Production</i> , <b>2021</b> , 281, 125321	10.3	10
101	Synthesis of MoS <sub>x</sub> /Ni-metal-organic framework-74 composites as efficient electrocatalysts for hydrogen evolution reactions. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 9638-9647	4.5	10
100	ZnS-based quantum dots as photocatalysts for water purification. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 43, 102217	6.7	10
99	Toward practical solar-driven photocatalytic water splitting on two-dimensional MoS <sub>2</sub> based solid-state Z-scheme and S-scheme heterostructure. <i>Fuel</i> , <b>2021</b> , 303, 121302	7.1	10
98	Control of the Crystal Growth Shape in CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Perovskite Materials. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2017</b> , 17, 8169-8174	1.3	9
97	Strategies based review on near-infrared light-driven bismuth nanocomposites for environmental pollutants degradation. <i>Chemosphere</i> , <b>2021</b> , 291, 132781	8.4	9
96	Combined role of SiC whiskers and graphene nano-platelets on the microstructure of spark plasma sintered ZrB <sub>2</sub> ceramics. <i>Ceramics International</i> , <b>2021</b> , 47, 12459-12466	5.1	9
95	Characterization of dissolved organic matter for understanding the adsorption on nanomaterials in aquatic environment: A review. <i>Chemosphere</i> , <b>2021</b> , 269, 128690	8.4	9
94	Anti-icing performance on aluminum surfaces and proposed model for freezing time calculation. <i>Scientific Reports</i> , <b>2021</b> , 11, 3641	4.9	9
93	Metal salt-modified biochars derived from agro-waste for effective congo red dye removal. <i>Environmental Research</i> , <b>2021</b> , 200, 111492	7.9	9
92	Role of ZnO and Fe <sub>2</sub> O <sub>3</sub> nanoparticle on synthetic saline wastewater on growth, nutrient removal and lipid content of <i>Chlorella vulgaris</i> for sustainable production of biofuel. <i>Fuel</i> , <b>2021</b> , 300, 120924	7.1	9

91	Progress in microbial biomass conversion into green energy. <i>Chemosphere</i> , <b>2021</b> , 281, 130835	8.4	9
90	Advanced nanocellulose-based gas barrier materials: Present status and prospects. <i>Chemosphere</i> , <b>2022</b> , 286, 131891	8.4	9
89	Transition metal dichalcogenide-based composites for hydrogen production. <i>Functional Composites and Structures</i> , <b>2019</b> , 1, 012001	3.5	8
88	Strategy for controlling the morphology and work function of W <sub>2</sub> C/WS <sub>2</sub> nanoflowers. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 829, 154582	5.7	8
87	Recent progress in emerging BiPO <sub>4</sub> -based photocatalysts: synthesis, properties, modification strategies, and photocatalytic applications. <i>Journal of Materials Science and Technology</i> , <b>2021</b> ,	9.1	8
86	A survey on spark plasma sinterability of CNT-added TiC ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2021</b> , 96, 105471	4.1	8
85	A Strategy to Develop Efficient Ag <sub>3</sub> PO <sub>4</sub> -based Photocatalytic Materials Toward Water Splitting: Perspectives and Challenges. <i>ChemCatChem</i> , <b>2021</b> , 13, 2965-2987	5.2	8
84	Recent advances in asphaltene transformation in heavy oil hydroprocessing: Progress, challenges, and future perspectives. <i>Fuel Processing Technology</i> , <b>2021</b> , 213, 106681	7.2	8
83	An overview on cellulose-supported semiconductor photocatalysts for water purification. <i>Nanotechnology for Environmental Engineering</i> , <b>2021</b> , 6, 1	5.1	8
82	Exploring the novel PES/malachite mixed matrix membrane to remove organic matter for water purification. <i>Chemical Engineering Research and Design</i> , <b>2020</b> , 160, 63-73	5.5	7
81	Recent Advances in Selective Photo-Epoxidation of Propylene: A Review. <i>Catalysts</i> , <b>2020</b> , 10, 87	4	7
80	Emerging photocatalysts for air purification. <i>Materials Letters</i> , <b>2021</b> , 288, 129355	3.3	7
79	Vertical flow constructed wetlands using expanded clay and biochar for wastewater remediation: A comparative study and prediction of effluents using machine learning. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 413, 125426	12.8	7
78	Production of medium-chain fatty acid caproate from Chinese liquor distillersTgrain using pit mud as the fermentation microbes. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 417, 126037	12.8	7
77	Grid-Connected Photovoltaic Systems with Single-Axis Sun Tracker: Case Study for Central Vietnam. <i>Energies</i> , <b>2020</b> , 13, 1457	3.1	6
76	Iron molybdenum oxide-modified screen-printed electrode: Application for electrocatalytic oxidation of cabergoline. <i>Microchemical Journal</i> , <b>2020</b> , 157, 104890	4.8	6
75	Advances in Designing Au Nanoparticles for Catalytic Epoxidation of Propylene with H <sub>2</sub> and O <sub>2</sub> . <i>Catalysts</i> , <b>2020</b> , 10, 442	4	6
74	An Overview on the Conversion of Forest Biomass into Bioenergy. <i>Frontiers in Energy Research</i> , <b>2021</b> , 9,	3.8	6

73	Microstructural evolution of TiB <sub>2</sub> /SiC composites empowered with Si <sub>3</sub> N <sub>4</sub> , BN or TiN: A comparative study. <i>Ceramics International</i> , <b>2021</b> , 47, 1002-1011	5.1	6
72	Post hot rolling of spark plasma sintered TiMoB <sub>4</sub> C composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 799, 140214	5.3	6
71	Characterization of reactive spark plasma sintered (Zr,Ti)B <sub>2</sub> /ZrC/SiC composites. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 119, 187-195	5.3	6
70	TEM characterization of hot-pressed ZrB <sub>2</sub> -SiC-AlN composites. <i>Results in Physics</i> , <b>2020</b> , 19, 103348	3.7	5
69	Electrochemical conversion of carbon dioxide over silver-based catalysts: Recent progress in cathode structure and interface engineering. <i>Chemical Engineering Science</i> , <b>2021</b> , 234, 116403	4.4	5
68	Synergistic effects of Si <sub>3</sub> N <sub>4</sub> and CNT on densification and properties of TiC ceramics. <i>Ceramics International</i> , <b>2021</b> , 47, 12941-12950	5.1	5
67	Template-free synthesis of Vanadium Nitride Nanopetals (VNNP) as a high performance counter electrode for dye sensitized solar cells. <i>Solar Energy</i> , <b>2021</b> , 213, 145-153	6.8	5
66	Effects of SiC on densification, microstructure and nano-indentation properties of ZrB <sub>2</sub> /BN composites. <i>Ceramics International</i> , <b>2021</b> , 47, 9873-9880	5.1	5
65	Photocatalytic degradation of surface-coated tourmaline-titanium dioxide for self-cleaning of formaldehyde emitted from furniture. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 420, 126565	12.8	5
64	Phenolic compounds degradation: Insight into the role and evidence of oxygen vacancy defects engineering on nanomaterials. <i>Science of the Total Environment</i> , <b>2021</b> , 800, 149410	10.2	5
63	Photocatalytic Inactivation of Viruses Using Graphitic Carbon Nitride-Based Photocatalysts: Virucidal Performance and Mechanism. <i>Catalysts</i> , <b>2021</b> , 11, 1448	4	4
62	Integrated farming system producing zero emissions and sustainable livelihood for small-scale cattle farms: Case study in the Mekong Delta, Vietnam. <i>Environmental Pollution</i> , <b>2020</b> , 265, 114853	9.3	4
61	Recent Progress in Carbon Nanotube Polymer Composites in Tissue Engineering and Regeneration. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	4
60	Core-shell architecture of NiSe <sub>2</sub> nanoparticles@nitrogen-doped carbon for hydrogen evolution reaction in acidic and alkaline media. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 20463	4.5	4
59	Microstructure-property correlation in nano-diamond and TiN added TiC-based ceramics. <i>Ceramics International</i> , <b>2021</b> , 47, 449-460	5.1	4
58	Nano-MOF-5 (Zn) Derived Porous Carbon as Support Electrocatalyst for Hydrogen Evolution Reaction. <i>ChemCatChem</i> , <b>2021</b> , 13, 4342	5.2	4
57	Stable and multicolored electrochromic device based on polyaniline-tungsten oxide hybrid thin film. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 882, 160718	5.7	4
56	Novel Exopolysaccharide Produced from Fermented Bamboo Shoot-Isolated. <i>Polymers</i> , <b>2020</b> , 12,	4.5	3

55	Current perspective in metal oxide based photocatalysts for virus disinfection: A review.. <i>Journal of Environmental Management</i> , <b>2022</b> , 308, 114617	7.9	3
54	The practicality and prospects for disinfection control by photocatalysis during and post-pandemic: A critical review.. <i>Environmental Research</i> , <b>2022</b> , 112814	7.9	3
53	Boosted methane dry reforming for hydrogen generation on cobalt catalyst with small cerium dosage. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> ,	6.7	3
52	Emerging architecture titanium carbide (TiCT) MXene based photocatalyst toward degradation of hazardous pollutants: Recent progress and perspectives.. <i>Chemosphere</i> , <b>2022</b> , 293, 133541	8.4	3
51	Strategies and perspectives of tailored SnS2 photocatalyst for solar driven energy applications. <i>Solar Energy</i> , <b>2022</b> , 231, 546-565	6.8	3
50	Strong Fermi-level pinning at metal contacts to halide perovskites. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 15212-15220	7.1	3
49	Evaluation of probiotic susceptibility of virulent <i>Aeromonas</i> sp. by a study on gut histology of <i>Cyprinus carpio</i> . <i>Process Biochemistry</i> , <b>2021</b> , 111, 154-159	4.8	3
48	Perspectives on phytoremediation of zinc pollution in air, water and soil. <i>Sustainable Chemistry and Pharmacy</i> , <b>2021</b> , 24, 100550	3.9	3
47	Recycling of aquaculture wastewater and sediment for sustainable corn and water spinach production. <i>Chemosphere</i> , <b>2021</b> , 268, 129329	8.4	3
46	Effects of discrete and simultaneous addition of SiC and Si3N4 on microstructural development of TiB2 ceramics. <i>Ceramics International</i> , <b>2021</b> , 47, 3520-3528	5.1	3
45	Highly stable electrochromic cells based on amorphous tungsten oxides prepared using a solution-annealing process. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 8061-8072	4.5	3
44	Recent advances and emerging trends in (BiO)2CO3 based photocatalysts for environmental remediation: A review. <i>Surfaces and Interfaces</i> , <b>2021</b> , 25, 101273	4.1	3
43	Constructing a novel all-solid-state Z-scheme BiVO4/CQDs/FeVO4 photocatalyst and its enhancement to the photocatalytic activity. <i>Materials Letters</i> , <b>2021</b> , 297, 129940	3.3	3
42	Controllable functionalization of g-C3N4 mediated all-solid-state (ASS) Z-scheme photocatalysts towards sustainable energy and environmental applications. <i>Environmental Technology and Innovation</i> , <b>2021</b> , 24, 101972	7	3
41	Potential of graphene based photocatalyst for antiviral activity with emphasis on COVID-19: A review.. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107527	6.8	3
40	Graphene-mediated enhanced Raman scattering and coherent light lasing from CsPbI3 perovskite nanorods. <i>Nano Energy</i> , <b>2020</b> , 70, 104497	17.1	2
39	Data Storage: Air-Stable Cesium Lead Iodide Perovskite for Ultra-Low Operating Voltage Resistive Switching (Adv. Funct. Mater. 5/2018). <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1870029	15.6	2
38	Novel step-scheme (S-scheme) heterojunction photocatalysts toward artificial photosynthesis. <i>Materials Letters</i> , <b>2022</b> , 313, 131781	3.3	2

37	Decoding the Capability of W1 Isolated from Soybean Whey in Producing an Exopolysaccharide. <i>ACS Omega</i> , <b>2020</b> , 5, 33387-33394	3.9	2
36	Microstructural evolution during spark plasma sintering of TiC/Ni/graphene ceramics. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2021</b> , 96, 105496	4.1	2
35	Converting biomass of agrowastes and invasive plant into alternative materials for water remediation. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	2
34	Chemical structure of a novel heteroglycan polysaccharide isolated from the biomass of <i>Ophiocordyceps Sobolifera</i> . <i>Journal of Molecular Structure</i> , <b>2021</b> , 1232, 129986	3.4	2
33	Solar-driven conversion of carbon dioxide over nanostructured metal-based catalysts in alternative approaches: Fundamental mechanisms and recent progress. <i>Environmental Research</i> , <b>2021</b> , 202, 111781	7.9	2
32	Microwave induced construction of multiple networks for multifunctional soy protein-based materials. <i>Progress in Organic Coatings</i> , <b>2021</b> , 158, 106390	4.8	2
31	Role of TiCN addition on the characteristics of reactive spark plasma sintered ZrB <sub>2</sub> -based novel composites. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 875, 159901	5.7	2
30	NH-MIL-125(Ti) doped CdS/Graphene composite as electro and photo catalyst in basic medium under light irradiation. <i>Environmental Research</i> , <b>2021</b> , 200, 111719	7.9	2
29	Graphitic carbon nitride based immobilized and non-immobilized floating photocatalysts for environmental remediation.. <i>Chemosphere</i> , <b>2022</b> , 134229	8.4	2
28	Effects of waste-based pyrolysis as heating source: Meta-analyze of char yield and machine learning analysis. <i>Fuel</i> , <b>2022</b> , 318, 123578	7.1	2
27	LaFeO <sub>3</sub> meets nitrogen-doped graphene functionalized with ultralow Pt loading in an impactful Z-scheme platform for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> ,	13	1
26	Advanced catalysts and effect of operating parameters in ethanol dry reforming for hydrogen generation. A review. <i>Environmental Chemistry Letters</i> , 1	13.3	1
25	Development and investigation of the flexible hydrogen sensor based on ZnO-decorated Sb <sub>2</sub> O <sub>3</sub> nanobelts. <i>Materials Today Chemistry</i> , <b>2021</b> , 22, 100576	6.2	1
24	Surface Treatment of Mixed-Halide CsPb(BrxI1-x) <sub>3</sub> Perovskite Quantum Dots for Thermal Stability Enhancement. <i>Materials Research Bulletin</i> , <b>2021</b> , 146, 111622	5.1	1
23	Design of Zeolite-Covalent Organic Frameworks for Methane Storage. <i>Materials</i> , <b>2020</b> , 13,	3.5	1
22	CO <sub>2</sub> Reforming of CH <sub>4</sub> on Mesoporous Alumina-Supported Cobalt Catalyst: Optimization of Lanthana Promoter Loading. <i>Topics in Catalysis</i> , <b>2021</b> , 64, 338-347	2.3	1
21	ZrB <sub>2</sub> SiCw composites with different carbonaceous additives. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2021</b> , 95, 105457	4.1	1
20	A TEM study on the microstructure of spark plasma sintered ZrB <sub>2</sub> -based composite with nano-sized SiC dopant. <i>Progress in Natural Science: Materials International</i> , <b>2021</b> , 31, 47-54	3.6	1

19	WS-WC-WO nano-hollow spheres as an efficient and durable catalyst for hydrogen evolution reaction. <i>Nano Convergence</i> , <b>2021</b> , 8, 28	9.2	1
18	Structural Characterization of Mannoglucan Isolated from and Its Antioxidant Activities.. <i>ACS Omega</i> , <b>2022</b> , 7, 9397-9405	3.9	1
17	Control of the morphologies of molybdenum disulfide for hydrogen evolution reaction. <i>International Journal of Energy Research</i> ,	4.5	1
16	Current status of hematite (Fe <sub>2</sub> O <sub>3</sub> ) based Z-scheme photocatalytic systems for environmental and energy applications. <i>Journal of Environmental Chemical Engineering</i> , <b>2022</b> , 10, 107427	6.8	1
15	Synthesis of ultra-high strength structured material from steam-modified delignification of wood. <i>Journal of Cleaner Production</i> , <b>2022</b> , 351, 131531	10.3	1
14	Visible-light photocatalysis of Ag-doped graphitic carbon nitride for photodegradation of micropollutants in wastewater.. <i>Chemosphere</i> , <b>2022</b> , 134626	8.4	1
13	Synthesis of nano-coral tungsten carbide/carbon fibers as efficient catalysts for hydrogen evolution reaction. <i>International Journal of Energy Research</i> ,	4.5	1
12	White LED active FeO/rGO photocatalytic nanocomposite for an effective degradation of tetracycline and ibuprofen molecules.. <i>Environmental Research</i> , <b>2022</b> , 212, 113301	7.9	1
11	Polypyrrole-based nanomaterials: A novel strategy for reducing toxic chemicals and others related to environmental sustainability applications. <i>Chemosphere</i> , <b>2022</b> , 303, 134993	8.4	1
10	Photocatalytic transition-metal-oxides-based p-n heterojunction materials: synthesis, sustainable energy and environmental applications, and perspectives. <i>Journal of Nanostructure in Chemistry</i> ,1	7.6	0
9	HRTEM study and mechanical properties of ZrB <sub>2</sub> /BiC composite: An insight into in-situ carbon formation over the SPS process. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2022</b> , 104, 105789	4.1	0
8	High strength composites of carbon fiber sheets-veneers sandwich-structure for electromagnetic interference shielding materials. <i>Progress in Organic Coatings</i> , <b>2022</b> , 165, 106736	4.8	0
7	Recent Developments of Bioethanol Production <b>2021</b> , 175-208		0
6	Nanostructured photocatalysts: Introduction to photocatalytic mechanism and nanomaterials for energy and environmental applications <b>2021</b> , 3-33		0
5	Microstructure of spark plasma sintered TiC//TiB <sub>2</sub> /BiCw composite. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 281, 125877	4.4	0
4	Phyto-mediated synthesis of nanoparticles and their applications on hydrogen generation on NaBH <sub>4</sub> , biological activities and photodegradation on azo dyes: Development of machine learning model.. <i>Food and Chemical Toxicology</i> , <b>2022</b> , 163, 112972	4.7	0
3	Electrochemical conversion of CO to value-added chemicals over bimetallic Pd-based nanostructures: Recent progress and emerging trends.. <i>Environmental Research</i> , <b>2022</b> , 113116	7.9	0
2	Graphene-based buffer layers for light-emitting diodes <b>2020</b> , 99-116		



- 1 Study of antimicrobial activity of *Thespesia populnea*-coated nanozirconium on cotton gauze fabrics. *Applied Nanoscience (Switzerland)*,1 33