

Muhammad Tahir

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.

301
papers

9,957
citations

52
h-index

91
g-index

320
ext. papers

12,618
ext. citations

5.2
avg, IF

7.32
L-index

#	Paper	IF	Citations
301	Green synthesis of novel lanthanum doped copper oxide nanoparticles for photocatalytic application: Correlation between experiment and COMSOL simulation. <i>Ceramics International</i> , 2022	5.1	4
300	A review on sources of heavy metals, their toxicity and removal technique using physico-chemical processes from wastewater.. <i>Environmental Science and Pollution Research</i> , 2022 , 29, 16772	5.1	6
299	The construction of a highly efficient p-n heterojunction Bi ₂ O ₃ /BiVO ₄ for hydrogen evolution through solar water splitting. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 4594-4600	6.7	4
298	First-principles Calculations to Investigate Structural, Electronics, Optical and Elastic Properties of Sn-based Inorganic Halide-perovskites CsSnX ₃ (X = I, Br, Cl) for Solar Cell Applications. <i>Computational and Theoretical Chemistry</i> , 2022 , 113624	2	2
297	Carbon Dioxide Conversion Methods. <i>Advances in Science, Technology and Innovation</i> , 2022 , 221-228	0.3	
296	Rapid photocatalytic degradation of dye and energy production through ternary BiVO ₄ /Ag/NiFe ₂ O ₄ nanocomposites under visible light irradiation. <i>Ceramics International</i> , 2022 ,	5.1	1
295	First-principles calculations to investigate ultra-wide bandgap semiconductor behavior of NaMgF ₃ fluoro-perovskite with external static isotropic pressure and its impact on optical properties. <i>Optik</i> , 2022 , 252, 168532	2.5	2
294	First principal calculations to investigate structural, electronic, optical, and magnetic properties of Fe ₃ O ₄ and Cd-doped Fe ₂ O ₄ . <i>Computational Condensed Matter</i> , 2022 , 30, e00629	1.7	2
293	Role of Photocatalysis in Green Energy Production 2022 , 590-596		0
292	Bimetallic metal-organic frameworks and MOF-derived composites: Recent progress on electro- and photoelectrocatalytic applications. <i>Coordination Chemistry Reviews</i> , 2022 , 451, 214264	23.2	30
291	Advances in Photocatalytic Materials for Waste Water Treatment Applications 2022 , 759-767		
290	Role of Nanomaterials in the Detoxification of Harmful Dyes 2022 , 373-386		
289	Evaluation of spectral, optoelectrical, dielectric, magnetic, and morphological properties of RE ³⁺ (La ³⁺ , and Ce ³⁺) and Co ²⁺ co-doped Zn _{0.75} Cu _{0.25} Fe ₂ O ₄ ferrites. <i>Materials Chemistry and Physics</i> , 2022 , 275, 125301	4.4	4
288	Facile One-Step Microwave-Assisted Method to Synthesize Nickel Selenide Nanosheets for High-Performance Hybrid Supercapacitor. <i>Journal of Colloid and Interface Science</i> , 2022 , 608, 1005-1014	9.3	5
287	Synergistic effect of Cu _x /Mg _x and Zn _{1-x} O for enhanced photocatalytic degradation and antibacterial activity. <i>Physica B: Condensed Matter</i> , 2022 , 624, 413396	2.8	2
286	Trimetallic metal-organic frameworks and derived materials for environmental remediation and electrochemical energy storage and conversion. <i>Coordination Chemistry Reviews</i> , 2022 , 461, 214505	23.2	11
285	A Fundamental Overview. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2022 , 1-12	0.4	

284	First-principles calculations to investigate variation in the bandgap of NaSrF3 Fluoro-Perovskite with external static isotropic pressure and its Impact on optical properties. <i>Computational and Theoretical Chemistry</i> , 2022 , 1214, 113766	2	1
283	Plant-Mediated Green Synthesis of Zinc Oxide Nanoparticles Using Peel Extract of for Boosting Seed Germination of Seeds. <i>Journal of Nanoscience and Nanotechnology</i> , 2021 , 21, 3573-3579	1.3	2
282	Synthesis and characterization of copper-based spinel ferrites for high frequency applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 168778	2.8	0
281	Fast preparation of oxygen vacancy-rich 2D/2D bismuth oxyhalides-reduced graphene oxide composite with improved visible-light photocatalytic properties by solvent-free grinding. <i>Journal of Cleaner Production</i> , 2021 , 328, 129651	10.3	8
280	Investigation of Structural, Electronics, Optical, Mechanical and Thermodynamic Properties of YRu2P2 Compound for Superconducting Application. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021 , 34, 3089	1.5	2
279	Fabrication of WO3 based nanocomposites for the excellent photocatalytic energy production under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	3
278	Fabrication of direct Z-scheme MoO3/NMoS2 photocatalyst for synergistically enhanced H2 production. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 39822-39822	6.7	2
277	Functionalized role of highly porous activated carbon in bismuth vanadate nanomaterials for boosted photocatalytic hydrogen evolution and synchronous activity in water. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 39778-39778	6.7	2
276	Static isotropic pressure induced ultra-wide band gap response of NaCaF3 fluoro-perovskite and its repercussions on optical properties: ab initio calculation. <i>Molecular Simulation</i> , 2021 , 47, 1549-1557	2	2
275	Emerging 2D-Nanostructured materials for electrochemical and sensing Application-A review. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 1371-1371	6.7	6
274	Synthesis of BiVO4/NiFe2O4 composite for photocatalytic degradation of methylene blue. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 2793	3.3	2
273	Applications of Polymeric Materials in Biomedical Engineering. <i>Advances in Science, Technology and Innovation</i> , 2021 , 133-142	0.3	
272	Chromium incorporated copper vanadate nano-materials for hydrogen evolution by water splitting. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 1661-1671	3.3	3
271	Two-dimensional materials and synthesis, energy storage, utilization, and conversion applications of two-dimensional MXene materials. <i>International Journal of Energy Research</i> , 2021 , 45, 9878-9894	4.5	2
270	Study of plasmonic bandgap by optimization of geometrical parameters of metallic grating devices. <i>Solid State Communications</i> , 2021 , 327, 114212	1.6	3
269	Green synthesis of nanoparticles using Calendula officinalis extract from silver sulfate and their antibacterial effects on Pectobacterium caratovorom. <i>Inorganic Chemistry Communication</i> , 2021 , 125, 108439	3.1	6
268	Insighting role of activated carbon based nanostructures for complete photocatalytic degradation of hazardous pharmaceutical compound. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 1117-1126	3.3	1
267	Iron and Manganese Codoped Cobalt Tungstates CoFe Mn WO as Efficient Photoelectrocatalysts for Oxygen Evolution Reaction. <i>ACS Omega</i> , 2021 , 6, 7334-7341	3.9	8

266	Health risk assessment in different age-group due to nitrate, fluoride, nitrite and geo-chemical parameters in drinking water in Ahmadpur East, Punjab, Pakistan. <i>Human and Ecological Risk Assessment (HERA)</i> , 2021 , 27, 1747-1763	4.9	2
265	Intelligent networks for crosswise stream nanofluidic model with CuBi2O over porous stretching medium. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 15322-15336	6.7	17
264	Novel Cr and Sn co-doped Co3O4 polygon-based electrode material for supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 11467-11477	2.1	1
263	Mechanistic investigation of Mg ²⁺ -ion-induced ZnO nanorods for enhanced photocatalytic performance. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 1917-1927	3.3	
262	Fluorine Dissolution-Induced Capacity Degradation for Fluorophosphate-Based Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 23787-23793	9.5	5
261	Core-Shell MOF-in-MOF Nanopore Bifunctional Host of Electrolyte for High-Performance Solid-State Lithium Batteries.. <i>Small Methods</i> , 2021 , 5, e2100508	12.8	8
260	Synergistically improved charge separation in bimetallic CoNi modified 3D g-C3N4 for enhanced photocatalytic H2 production under UV-visible light. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 20995-21012	6.7	13
259	Recent advances in the rational design of 2D MXenes in energy conversion and storage systems. <i>International Journal of Energy Research</i> , 2021 , 45, 17563-17576	4.5	0
258	High-yield synthesis of silver nanowires for transparent conducting PET films. <i>Beilstein Journal of Nanotechnology</i> , 2021 , 12, 624-632	3	0
257	Fabrication of p-n heterojunction Ag2O@Ce2O nanocomposites make enables to improve photocatalytic activity under visible light. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 199-206	3.3	5
256	Construction of visible-light-driven ternary ZnO-MoS2-BiVO4 composites for enhanced photocatalytic activity. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 241-247	3.3	1
255	A review on the 2D black phosphorus materials for energy applications. <i>Inorganic Chemistry Communication</i> , 2021 , 124, 108242	3.1	8
254	Fabrication of novel perovskite oxide BaxMn1-xO3 electrode for supercapacitors. <i>International Journal of Energy Research</i> , 2021 , 45, 4145-4154	4.5	6
253	Investigation of in-vitro antibacterial and seed germination properties of green synthesized pure and nickel doped ZnO nanoparticles. <i>Physica B: Condensed Matter</i> , 2021 , 601, 412563	2.8	8
252	A novel ternary composite aerogel for high-performance supercapacitor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 610, 125644	5.1	9
251	Construction of visible light driven CuBi2O4/ Bi2WO6 solid solutions anchored with Bi12O17ClxBr2-x nanoparticles for improved photocatalytic activity. <i>Ceramics International</i> , 2021 , 47, 320-328	5.1	6
250	Synthesis of graphitic carbon nitride and industrial applications as tensile strength reinforcement agent in red Acrylonitrile-Butadiene-Styrene (ABS). <i>Physica B: Condensed Matter</i> , 2021 , 602, 412556	2.8	7
249	Smooth growth, characterization and optical properties of Cu2SnS3 thin film via spray pyrolysis method. <i>Physica B: Condensed Matter</i> , 2021 , 602, 412498	2.8	5

248	Fine-tuning internal electric field of BiOBr for suppressed charge recombination. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104766	6.8	9
247	Intelligent computing for the dynamics of fluidic system of electrically conducting Ag/Cu nanoparticles with mixed convection for hydrogen possessions. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 4947-4980	6.7	25
246	Assessment of health hazards related to contaminations of fluorides, nitrates, and nitrites in drinking water of Vehari, Punjab, Pakistan. <i>Human and Ecological Risk Assessment (HERA)</i> , 2021 , 27, 1509-1522	4.9	4
245	Structural, Optical, and Magnetic Properties of Pure and Vanadium-Doped NiO Microstructures for Spintronics Applications. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021 , 34, 1801-1806	1.5	1
244	Optimized structure and electrochemical properties of sulfonated carbon nanotubes/CoNi bimetallic layered hydroxide composites for high-performance supercapacitors. <i>Ceramics International</i> , 2021 , 47, 4648-4658	5.1	4
243	Electrochemical study of Mo-doped Co ₃ O ₄ nanostructures synthesized by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 3512-3521	2.1	2
242	Nuclear Desalination. <i>Advances in Science, Technology and Innovation</i> , 2021 , 121-135	0.3	1
241	Hydrothermal synthesis of an efficient and visible light responsive pure and strontium doped zinc oxide nano-hexagonal photocatalysts for photodegradation of Rhodamine B dye. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 1045-1056	3.3	2
240	Determination of structural, mechanical, thermal and magnetic properties of Cr based new quaternary Heusler alloys with GGA and GGA+U. <i>Physica Scripta</i> , 2021 , 96, 035701	2.6	7
239	Nanomaterials for Photocatalytic Energy Conversion. <i>Materials Horizons</i> , 2021 , 43-84	0.6	
238	Biological Methods for Carbon Dioxide Conversion and Utilization. <i>Advances in Science, Technology and Innovation</i> , 2021 , 165-177	0.3	
237	Construction of Bi ₂ WO ₆ /MoSe ₂ /Bi ₁₂ O ₁₇ Cl _x Br _{2-x} heterostructures for the production of hydrogen energy and degradation of methylene blue. <i>Applied Nanoscience (Switzerland)</i> , 2021 , 11, 951-959	3.3	1
236	Synthesis of the novel binary composite of self-suspended polyaniline (S-PANI) and functionalized multi-walled carbon nanotubes for high-performance supercapacitors. <i>Ionics</i> , 2021 , 27, 1743-1755	2.7	5
235	Effect of Li, K and Be doping on phase stability, band structure and optoelectronic response of SrTiO ₃ perovskite for semiconductor devices: A computational insight. <i>Optik</i> , 2021 , 227, 166044	2.5	1
234	Role of Nano-Photocatalysts in Detoxification of Toxic Heavy Metals. <i>Current Analytical Chemistry</i> , 2021 , 17, 126-137	1.7	1
233	Role of Nanocatalyst (Photocatalysts) for Waste Water Treatment. <i>Current Analytical Chemistry</i> , 2021 , 17, 138-149	1.7	2
232	Bismuth-based heterojunction nanocomposites for photocatalysis and heavy metal detection applications. <i>Nano Structures Nano Objects</i> , 2021 , 27, 100762	5.6	30
231	Influence of van der waals heterostructures of 2D materials on catalytic performance of ZnO and its applications in energy: A review. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 25413-25423	6.7	3

230	Tunable emission in ferromagnetic CdS:Dy ³⁺ nanostructures for optoelectronic and spintronic applications. <i>Physica B: Condensed Matter</i> , 2021 , 613, 412894	2.8	
229	Neuro-intelligent mappings of hybrid hydro-nanofluid Al ₂ O ₃ /Cu ₂ O model in porous medium over rotating disk with viscous dissolution and Joule heating. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 28298-28326	6.7	13
228	Recent development in shape memory based perovskite materials for energy conversion and storage applications. <i>International Journal of Energy Research</i> , 2021 , 45, 20545	4.5	2
227	Role of CTF in Bi ₂ WO ₆ /ZnO photocatalysts for effective degradation and hydrogen energy evolution. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 30606-30614	6.7	9
226	The enhanced electrical and dielectric properties of cobalt-based spinel ferrites for high-frequency applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 22440-22449	2.1	2
225	Recent advances in the rational design of 2D MXenes in energy conversion and storage systems. <i>International Journal of Energy Research</i> , 2021 , 45, 20448	4.5	1
224	Computational insights of alkali metal (Li / Na / K) atom decorated buckled bismuthene for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 28700-28708	6.7	3
223	Enhancement in Physical Properties of Silver-Doped Fe ₃ Ni Invar Nano-alloy Using Chemical Reduction Method. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021 , 34, 3237	1.5	
222	Recent advancements in strategies to improve performance of tungsten-based semiconductors for photocatalytic hydrogen production: a review. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 503001	3	4
221	Synthesis and characterization of Bi-doped antimony sulphide thin films for solar absorption applications. <i>Physica B: Condensed Matter</i> , 2021 , 619, 413196	2.8	1
220	Novel, facile and first time synthesis of zinc oxide nanoparticles using leaves extract of Citrus reticulata for photocatalytic and antibacterial activity. <i>Optik</i> , 2021 , 243, 167495	2.5	5
219	Synthesis of novel p-n heterojunction Cu ₂ SnS ₃ /Ti ³⁺ -TiO ₂ for the complete tetracycline degradation in few minutes and photocatalytic activity under simulated solar irradiation. <i>Ceramics International</i> , 2021 , 47, 31337-31348	5.1	1
218	Capacitive properties of novel Sb-doped Co ₃ O ₄ electrode material synthesized by hydrothermal method. <i>Ceramics International</i> , 2021 , 47, 32210-32217	5.1	2
217	Application of Membrane in Reaction Engineering for Green Synthesis. <i>Advances in Science, Technology and Innovation</i> , 2021 , 163-171	0.3	
216	CO ₂ -Philic Surfactants: Structure Performance Relationship. <i>Petroleum Engineering</i> , 2021 , 315-327	1.3	
215	Synthesis of g-C ₃ N ₄ nanorods for visible-light photocatalytic degradation of methylene blue, methylene orange and rhodamine-B. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 1-16	1.8	7
214	Highly efficient and visible light-driven nickel-doped vanadium oxide photocatalyst for degradation of Rhodamine B Dye. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 2365-2374	3.3	12
213	Bilayered microelectrodes based on electrochemically deposited MnO/polypyrrole towards fast charge transport kinetics for micro-supercapacitors.. <i>RSC Advances</i> , 2020 , 10, 18245-18251	3.7	5

212	A Comprehensive Study on Methods and Materials for Photocatalytic Water Splitting and Hydrogen Production as a Renewable Energy Resource. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 3837-3861	3.2	21
211	Novel Citrus aurantifolia leaves based biosynthesis of copper oxide nanoparticles for environmental and wastewater purification as an efficient photocatalyst and antibacterial agent. <i>Optik</i> , 2020 , 219, 165138	2.5	21
210	COVID-19: Healthy environmental impact for public safety and menaces oil market. <i>Science of the Total Environment</i> , 2020 , 740, 140054	10.2	22
209	Visible light responsive photocatalytic hydrogen evolution using MoS ₂ incorporated ZnO. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 3925-3931	3.3	10
208	Ni and Ce oxide-based hollow fibers as battery-like electrodes. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154633	5.7	6
207	Photocatalytic degradation of RhB from an aqueous solution using Ag ₃ PO ₄ /N-TiO ₂ heterostructure. <i>Journal of Molecular Liquids</i> , 2020 , 313, 113522	6	21
206	Facile hydrothermal synthesis of highly efficient and visible light-driven Ni-doped V ₂ O ₅ photocatalyst for degradation of Rhodamine B dye. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 12913-12925	2.1	5
205	Utilization of Bi ₂ WO ₆ -encapsulated polyaniline-based redox reactions for the efficient detoxification of organic pollutants. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 2037-2043	3.3	10
204	Interfacial Growth of Activated Carbon on WO ₃ Nanoplates for Enhanced Photocatalytic Activity by Surface Plasmon Resonance. <i>Plasmonics</i> , 2020 , 15, 1205-1212	2.4	4
203	Recent advances on photocatalytic nanomaterials for hydrogen energy evolution in sustainable environment. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 1-19	1.8	9
202	Surfactants for Enhanced Oil Recovery Applications 2020 ,		14
201	Plant-mediated green synthesis of zinc oxide nanoparticles from Syzygium Cumini for seed germination and wastewater purification. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 1-16	1.8	32
200	Green synthesis of TiO ₂ nanoparticles using lemon peel extract: their optical and photocatalytic properties. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 1-9	1.8	26
199	Role of nanophotocatalysts for the treatment of hazardous organic and inorganic pollutants in wastewater. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 1-25	1.8	14
198	Green synthesis of magnesium oxide nanoparticles using Dalbergia sissoo extract for photocatalytic activity and antibacterial efficacy. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 2351-2364	3.3	32
197	Design of 3kW integrated power generation system from solar and biogas. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 12711-12720	6.7	16
196	Boosting the electrochemical performance and reliability of conducting polymer microelectrode via intermediate graphene for on-chip asymmetric micro-supercapacitor. <i>Journal of Energy Chemistry</i> , 2020 , 49, 224-232	12	31
195	Photocatalyst for Wastewater Treatment. <i>Current Analytical Chemistry</i> , 2020 , 17, 3-3	1.7	

194	Novel Smart Photocatalysis for Energy Production and Environment Applications 2020 , 635-635		0
193	A review of the interfacial properties of 2-D materials for energy storage and sensor applications. <i>Chinese Journal of Physics</i> , 2020 , 66, 246-257	3.5	9
192	Role of cerium-doping in CoFe ₂ O ₄ electrodes for high performance supercapacitors. <i>Journal of Energy Storage</i> , 2020 , 29, 101452	7.8	21
191	Highly efficient Bi ₂ O ₃ /MoS ₂ p-n heterojunction photocatalyst for H ₂ evolution from water splitting. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 8479-8489	6.7	41
190	Lead-free relaxor-ferroelectric ceramics for high-energy-storage applications. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8962-8970	7.1	10
189	Integration of VS ₂ nanosheets into carbon for high energy density micro-supercapacitor. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 151769	5.7	17
188	Semiconductor based nanomaterials for harvesting green hydrogen energy under solar light irradiation. <i>International Journal of Environmental Analytical Chemistry</i> , 2020 , 1-17	1.8	8
187	Gallium vacancies role in hydrogen storage of single-crystalline GaN hexagonal micro-sheets. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 4731-4742	6.7	11
186	Eco-friendly green and biosynthesis of copper oxide nanoparticles using <i>Citrofortunella microcarpa</i> leaves extract for efficient photocatalytic degradation of Rhodamin B dye form textile wastewater. <i>Optik</i> , 2020 , 208, 164053	2.5	42
185	Promotion of Nitrogen Reserve and Electronic Regulation in Bamboo-like Carbon Tubules by Cobalt Nanoparticles for Highly Efficient ORR. <i>ACS Applied Energy Materials</i> , 2020 , 3, 2323-2330	6.1	10
184	Promotional role of MgO on sorption-enhanced steam reforming of ethanol over Ni/CaO catalysts. <i>AIChE Journal</i> , 2020 , 66, e16877	3.6	16
183	Role of rGO to improve the performance of BiVO ₄ nanostructures for efficient removal of heavy metals. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 1421-1432	3.3	2
182	Interfacial coupling effect of Ag ₂ O nanorods over MoS ₂ microflowers for improved photocatalytic activity. <i>Ceramics International</i> , 2020 , 46, 6856-6859	5.1	8
181	Interwoven Nanowire Based On-Chip Asymmetric Microsupercapacitor with High Integrability, Areal Energy, and Power Density. <i>Advanced Energy Materials</i> , 2020 , 10, 2001873	21.8	18
180	Highly stable 3D/2D WO ₃ /g-C ₃ N ₄ Z-scheme heterojunction for stimulating photocatalytic CO ₂ reduction by H ₂ O/H ₂ to CO and CH ₄ under visible light. <i>Journal of CO₂ Utilization</i> , 2020 , 41, 101270	7.6	33
179	Structural Engineering and Coupling of Two-Dimensional Transition Metal Compounds for Micro-Supercapacitor Electrodes. <i>ACS Central Science</i> , 2020 , 6, 1901-1915	16.8	17
178	Mixed solvent based surface modification of CuS nanostructures for an excellent photocatalytic application. <i>Inorganic Chemistry Communication</i> , 2020 , 121, 108205	3.1	5
177	Photocatalytic degradation and hydrogen evolution using bismuth tungstate based nanocomposites under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 22833-22847	6.7	9

176	Improved photocatalytic performance of Gd and Nd co-doped ZnO nanorods for the degradation of methylene blue. <i>Ceramics International</i> , 2020 , 46, 11955-11961	5.1	57
175	Role of Photocatalysts in Air Purification 2020 , 597-597		1
174	Synthesis methods of nanostructures 2020 , 45-56		2
173	Carbonaceous nanomaterials as photocatalysts 2020 , 97-117		1
172	Photocatalytic nanomaterials for degradation of organic pollutants and heavy metals 2020 , 119-138		6
171	Photocatalytic nanomaterials for the removal of pharmaceuticals 2020 , 191-202		
170	Recent advances in the development of photocatalysis and future perspectives 2020 , 221-223		0
169	A perspective on the fabrication of heterogeneous photocatalysts for enhanced hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 24544-24557	6.7	14
168	Role of Nanotechnology in Photocatalysis 2020 , 578-578		4
167	Cogent synergic effect of TiS ₂ /g-C ₃ N ₄ composite with enhanced electrochemical performance for supercapacitor. <i>Ceramics International</i> , 2020 , 46, 27601-27607	5.1	14
166	Nanostructure materials and their classification by dimensionality 2020 , 27-44		1
165	Nanomaterials for photocatalysis 2020 , 65-76		7
164	Preparation of a bifunctional ultrathin nickel phosphide nanosheet electrocatalyst for full water splitting. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 5294-5300	5.8	5
163	Synthesis, characterization and antibacterial activity of NiO NPs against pathogen. <i>Inorganic Chemistry Communication</i> , 2020 , 122, 108300	3.1	9
162	History and fundamentals of nanoscience and nanotechnology 2020 , 1-25		1
161	Review of the Geological Strength Index (GSI) as an Empirical Classification and Rock Mass Property Estimation Tool: Origination, Modifications, Applications, and Limitations. <i>Advances in Civil Engineering</i> , 2020 , 2020, 1-18	1.3	2
160	Tuning the Photocatalytic Performance of Tungsten Oxide by Incorporating Cu ₃ V ₂ O ₈ Nanoparticles for H ₂ Evolution Under Visible Light Irradiation. <i>Journal of Electrochemical Energy Conversion and Storage</i> , 2020 , 17,	2	2
159	Advances in photo-catalysis approach for the removal of toxic personal care product in aqueous environment. <i>Environment, Development and Sustainability</i> , 2020 , 22, 6029-6052	4.5	9

158	Au-NPs embedded Z-scheme WO ₃ /TiO ₂ nanocomposite for plasmon-assisted photocatalytic glycerol-water reforming towards enhanced H ₂ evolution. <i>Applied Surface Science</i> , 2020 , 503, 144344	6.7	55
157	Hierarchical WO ₃ @ BiVO ₄ nanostructures for improved green energy production. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 1183-1190	3.3	9
156	Green Synthesis of TiO ₂ Nanoparticle Using Cinnamon Powder Extract and the Study of Optical Properties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 1425-1429	3.2	29
155	Activated carbon doped WO ₃ for photocatalytic degradation of rhodamine-B. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 869-877	3.3	19
154	Tailorable and Rationally Designed MoS ₂ Based Heterostructure Photocatalyst for Efficient Photocatalytic Degradation of Phenol Under the Visible Light. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2020 , 30, 3965-3972	3.2	0
153	Optimization of 1D Silver Grating Devices for Extraordinary Optical Transmission. <i>Plasmonics</i> , 2019 , 14, 1099-1104	2.4	5
152	Qualitative and quantitative analysis of nanoparticles using laser-induced breakdown spectroscopy (LIBS) and energy dispersive x-ray spectroscopy (EDS). <i>Laser Physics</i> , 2019 , 29, 116001	1.2	6
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