

# Muhammad Tahir

## List of Publications by Citations

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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	Electrocatalytic oxygen evolution reaction for energy conversion and storage: A comprehensive review. <i>Nano Energy</i> , <b>2017</b> , 37, 136-157	17.1	860
300	Hollow Cobalt-Based Bimetallic Sulfide Polyhedra for Efficient All-pH-Value Electrochemical and Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 1359-65	16.4	540
299	A critical review in strategies to improve photocatalytic water splitting towards hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 540-577	6.7	343
298	A review on green synthesis of silver nanoparticles and their applications. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , <b>2017</b> , 45, 1272-1291	6.1	326
297	Multifunctional g-C(3)N(4) nanofibers: a template-free fabrication and enhanced optical, electrochemical, and photocatalyst properties. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 1258-65	9.5	300
296	Carbonaceous-TiO <sub>2</sub> nanomaterials for photocatalytic degradation of pollutants: A review. <i>Ceramics International</i> , <b>2017</b> , 43, 14552-14571	5.1	213
295	MOF-derived C-doped ZnO prepared via a two-step calcination for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 189, 181-191	21.8	211
294	Tubular graphitic-C <sub>3</sub> N <sub>4</sub> : a prospective material for energy storage and green photocatalysis. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13949	13	211
293	CdS Nanoparticle-Decorated Cd Nanosheets for Efficient Visible Light-Driven Photocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , <b>2016</b> , 6, 1501241	21.8	193
292	A critical review on TiO <sub>2</sub> based photocatalytic CO <sub>2</sub> reduction system: Strategies to improve efficiency. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2018</b> , 26, 98-122	7.6	179
291	Popcorn-Derived Porous Carbon Flakes with an Ultrahigh Specific Surface Area for Superior Performance Supercapacitors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 30626-30634	9.5	170
290	Direct Z-scheme composite of CdS and oxygen-defected CdWO <sub>4</sub> : An efficient visible-light-driven photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , <b>2016</b> , 198, 154-161	21.8	154
289	High-Valence-State NiO/Co <sub>3</sub> O <sub>4</sub> Nanoparticles on Nitrogen-Doped Carbon for Oxygen Evolution at Low Overpotential. <i>ACS Energy Letters</i> , <b>2017</b> , 2, 2177-2182	20.1	150
288	Photocatalytic reduction of carbon dioxide with water vapors over montmorillonite modified TiO <sub>2</sub> nanocomposites. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 142-143, 512-522	21.8	135
287	Well-designed ZnV <sub>2</sub> O <sub>6</sub> /g-C <sub>3</sub> N <sub>4</sub> 2D/2D nanosheets heterojunction with faster charges separation via pCN as mediator towards enhanced photocatalytic reduction of CO <sub>2</sub> to fuels. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 242, 312-326	21.8	125
286	Removal of acetylsalicylate and methyl-theobromine from aqueous environment using nano-photocatalyst WO <sub>3</sub> -TiO <sub>2</sub> @g-CN composite. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 363, 205-213	12.8	120
285	Synthesis of novel ZnV <sub>2</sub> O <sub>6</sub> hierarchical nanospheres and their applications as electrochemical supercapacitor and hydrogen storage material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 13635-41	9.5	118

284	Template free synthesis of CuS nanosheet-based hierarchical microspheres: an efficient natural light driven photocatalyst. <i>CrystEngComm</i> , <b>2014</b> , 16, 5290	3.3	117
283	Carbon nanodots and rare metals (RM = La, Gd, Er) doped tungsten oxide nanostructures for photocatalytic dyes degradation and hydrogen production. <i>Separation and Purification Technology</i> , <b>2019</b> , 209, 94-102	8.3	112
282	Recent advancements in engineering approach towards design of photo-reactors for selective photocatalytic CO <sub>2</sub> reduction to renewable fuels. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2019</b> , 29, 205-239	7.6	105
281	Nanostructured-based WO <sub>3</sub> photocatalysts: recent development, activity enhancement, perspectives and applications for wastewater treatment. <i>International Journal of Environmental Science and Technology</i> , <b>2017</b> , 14, 2519-2542	3.3	101
280	Role of MoSe <sub>2</sub> on nanostructures WO <sub>3</sub> -CNT performance for photocatalytic hydrogen evolution. <i>Ceramics International</i> , <b>2018</b> , 44, 6686-6690	5.1	100
279	A novel Z-scheme WO <sub>3</sub> /CdWO <sub>4</sub> photocatalyst with enhanced visible-light photocatalytic activity for the degradation of organic pollutants. <i>RSC Advances</i> , <b>2015</b> , 5, 6019-6026	3.7	89
278	Chlorine-doped carbonated cobalt hydroxide for supercapacitors with enormously high pseudocapacitive performance and energy density. <i>Nano Energy</i> , <b>2015</b> , 11, 267-276	17.1	89
277	Bifunctional catalysts of Co <sub>3</sub> O <sub>4</sub> @GCN tubular nanostructured (TNS) hybrids for oxygen and hydrogen evolution reactions. <i>Nano Research</i> , <b>2015</b> , 8, 3725-3736	10	86
276	Role of europium on WO <sub>3</sub> performance under visible-light for photocatalytic activity. <i>Ceramics International</i> , <b>2018</b> , 44, 5705-5709	5.1	84
275	Large scale production of novel g-C <sub>3</sub> N <sub>4</sub> micro strings with high surface area and versatile photodegradation ability. <i>CrystEngComm</i> , <b>2014</b> , 16, 1825	3.3	82
274	A Universal Grid-Connected Fuel-Cell Inverter for Residential Application. <i>IEEE Transactions on Industrial Electronics</i> , <b>2010</b> , 57, 3431-3447	8.9	79
273	Enhanced photocatalytic performance of visible-light active graphene-WO <sub>3</sub> nanostructures for hydrogen production. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 84, 36-41	4.3	78
272	Tunable porous structure of carbon nanosheets derived from puffed rice for high energy density supercapacitors. <i>Journal of Power Sources</i> , <b>2017</b> , 371, 148-155	8.9	73
271	Well-dispersed molybdenum nitrides on a nitrogen-doped carbon matrix for highly efficient hydrogen evolution in alkaline media. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 20932-20937	13	72
270	The detoxification of heavy metals from aqueous environment using nano-photocatalysis approach: a review. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 10515-10528	5.1	70
269	One Dimensional Graphitic Carbon Nitrides as Effective Metal-Free Oxygen Reduction Catalysts. <i>Scientific Reports</i> , <b>2015</b> , 5, 12389	4.9	70
268	Efficient water oxidation through strongly coupled graphitic C <sub>3</sub> N <sub>4</sub> coated cobalt hydroxide nanowires. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 12940-12946	13	70
267	The role of graphene and europium on TiO <sub>2</sub> performance for photocatalytic hydrogen evolution. <i>Ceramics International</i> , <b>2018</b> , 44, 546-549	5.1	69

266	Synthesis of CuS flowers exhibiting versatile photo-catalyst response. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 1459-1468	3.6	66
265	Fabrication of zero to three dimensional nanostructured molybdenum sulfides and their electrochemical and photocatalytic applications. <i>Nanoscale</i> , <b>2016</b> , 8, 18250-18269	7.7	66
264	Novel and facile synthesis of silver nanoparticles using Albizia procera leaf extract for dye degradation and antibacterial applications. <i>Materials Science and Engineering C</i> , <b>2019</b> , 99, 1313-1324	8.3	63
263	WO <sub>3</sub> Nanostructures-Based Photocatalyst Approach Towards Degradation of RhB Dye. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2018</b> , 28, 1107-1113	3.2	60
262	Construction of MoS <sub>2</sub> /CND-WO <sub>3</sub> Ternary Composite for Photocatalytic Hydrogen Evolution. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2018</b> , 28, 2160-2168	3.2	60
261	The synergistic effect between WO <sub>3</sub> and g-C <sub>3</sub> N <sub>4</sub> towards efficient visible-light-driven photocatalytic performance. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 5462-5469	3.6	60
260	Fabrication of heterogeneous photocatalysts for insight role of carbon nanofibre in hierarchical WO <sub>3</sub> / MoSe <sub>2</sub> composite for enhanced photocatalytic hydrogen generation. <i>Ceramics International</i> , <b>2019</b> , 45, 5547-5552	5.1	60
259	La-modified TiO <sub>2</sub> /carbon nanotubes assembly nanocomposite for efficient photocatalytic hydrogen evolution from glycerol-water mixture. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 3711-3725	6.7	59
258	Boosting the performance of visible light-driven WO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> anchored with BiVO <sub>4</sub> nanoparticles for photocatalytic hydrogen evolution. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 5747-5758	4.5	57
257	Improved photocatalytic performance of Gd and Nd co-doped ZnO nanorods for the degradation of methylene blue. <i>Ceramics International</i> , <b>2020</b> , 46, 11955-11961	5.1	57
256	Enhanced photocatalytic activity of Al and Fe co-doped ZnO nanorods for methylene blue degradation. <i>Ceramics International</i> , <b>2019</b> , 45, 21430-21435	5.1	56
255	Synthesis of mid-infrared SnSe nanowires and their optoelectronic properties. <i>CrystEngComm</i> , <b>2014</b> , 16, 3470	3.3	55
254	Au-NPs embedded ZrO <sub>2</sub> WO <sub>3</sub> /TiO <sub>2</sub> nanocomposite for plasmon-assisted photocatalytic glycerol-water reforming towards enhanced H <sub>2</sub> evolution. <i>Applied Surface Science</i> , <b>2020</b> , 503, 144344	6.7	55
253	Synergistic effects of 2D/2D ZnV <sub>2</sub> O <sub>6</sub> /RGO nanosheets heterojunction for stable and high performance photo-induced CO <sub>2</sub> reduction to solar fuels. <i>Chemical Engineering Journal</i> , <b>2018</b> , 334, 2142-2153	14.7	55
252	A Review on Synthesis, Characterization and Applications of Copper Nanoparticles Using Green Method. <i>Nano</i> , <b>2017</b> , 12, 1750043	1.1	54
251	Hierarchical 3D VO <sub>2</sub> /ZnV <sub>2</sub> O <sub>4</sub> microspheres as an excellent visible light photocatalyst for CO <sub>2</sub> reduction to solar fuels. <i>Applied Surface Science</i> , <b>2019</b> , 467-468, 1170-1180	6.7	54
250	Enhanced photocatalytic performance of CdO-WO <sub>3</sub> composite for hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 24690-24697	6.7	53
249	A Review on Novel Eco-Friendly Green Approach to Synthesis TiO <sub>2</sub> Nanoparticles Using Different Extracts. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2018</b> , 28, 1552-1564	3.2	52

248	Microwave assisted synthesis of mesoporous NiCo <sub>2</sub> O <sub>4</sub> nanosheets as electrode material for advanced flexible supercapacitors. <i>RSC Advances</i> , <b>2015</b> , 5, 33146-33154	3.7	52
247	Engineering the performance of heterogeneous WO <sub>3</sub> /fullerene@Ni <sub>3</sub> B/Ni(OH) <sub>2</sub> Photocatalysts for Hydrogen Generation. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 21738-21745	6.7	51
246	Role of fullerene to improve the WO <sub>3</sub> performance for photocatalytic applications and hydrogen evolution. <i>International Journal of Energy Research</i> , <b>2018</b> , 42, 4783-4789	4.5	50
245	Co-Electrodeposited porous PEDOT-CNT microelectrodes for integrated micro-supercapacitors with high energy density, high rate capability, and long cycling life. <i>Nanoscale</i> , <b>2019</b> , 11, 7761-7770	7.7	49
244	Synthesis, evolution and hydrogen storage properties of ZnV <sub>2</sub> O <sub>4</sub> glomerulus nano/microspheres: A prospective material for energy storage. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 7842-7851	6.7	49
243	Self-Triggered Communication Enabled Control of Distributed Generation in Microgrids. <i>IEEE Transactions on Industrial Informatics</i> , <b>2015</b> , 1-1	11.9	48
242	Effect of the morphology of CuS upon the photocatalytic degradation of organic dyes. <i>RSC Advances</i> , <b>2014</b> , 4, 63447-63456	3.7	47
241	Effect of synthesis technique on electrochemical performance of bismuth selenide. <i>Journal of Power Sources</i> , <b>2013</b> , 229, 216-222	8.9	47
240	Material and method selection for efficient solid oxide fuel cell anode: Recent advancements and reviews. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 2423-2446	4.5	46
239	Synthesis of Nanostructured Based WO <sub>3</sub> Materials for Photocatalytic Applications. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2018</b> , 28, 777-782	3.2	46
238	Potential of Biological Agents in Decontamination of Agricultural Soil. <i>Scientifica</i> , <b>2016</b> , 2016, 1598325	2.6	44
237	Microbial photoelectrochemical cell for improved hydrogen evolution using nickel ferrite incorporated WO <sub>3</sub> under visible light irradiation. <i>International Journal of Hydrogen Energy</i> , <b>2019</b> , 44, 17316-17322	6.7	43
236	Highly visible light responsive metal loaded N/TiO <sub>2</sub> nanoparticles for photocatalytic conversion of CO <sub>2</sub> into methane. <i>Ceramics International</i> , <b>2017</b> , 43, 6771-6777	5.1	42
235	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> , <b>2020</b> , 208, 164053	2.5	42
234	Highly efficient Bi <sub>2</sub> O <sub>3</sub> /MoS <sub>2</sub> p-n heterojunction photocatalyst for H <sub>2</sub> evolution from water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2020</b> , 45, 8479-8489	6.7	41
233	Narrowing the Band Gap of BiOCl for the Hydroxyl Radical Generation of Photocatalysis under Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 16569-16576	8.3	40
232	Template-free synthesis of highly ordered 3D-hollow hierarchical Nb <sub>2</sub> O <sub>5</sub> superstructures as an asymmetric supercapacitor by using inorganic electrolyte. <i>Electrochimica Acta</i> , <b>2016</b> , 216, 332-338	6.7	40
231	Green synthesis and characterization of novel iron particles by using different extracts. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 732, 935-944	5.7	39

230	Synthesis of novel ZnV2O4 spinel oxide nanosheets and their hydrogen storage properties. <i>CrystEngComm</i> , <b>2014</b> , 16, 894-899	3.3	37
229	Morphology Tailored Synthesis of C-WO3 nanostructures and its Photocatalytic Application. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2018</b> , 28, 738-745	3.2	35
228	Facile synthesis of novel Nb3O7F nanoflowers, their optical and photocatalytic properties. <i>CrystEngComm</i> , <b>2013</b> , 15, 8146	3.3	34
227	Synthesis of hierarchical ZnV2O6 nanosheets with enhanced activity and stability for visible light driven CO2 reduction to solar fuels. <i>Applied Surface Science</i> , <b>2018</b> , 435, 953-962	6.7	34
226	Highly stable 3D/2D WO3/g-C3N4 Z-scheme heterojunction for stimulating photocatalytic CO2 reduction by H2O/H2 to CO and CH4 under visible light. <i>Journal of CO2 Utilization</i> , <b>2020</b> , 41, 101270	7.6	33
225	Plant-mediated green synthesis of zinc oxide nanoparticles From <i>Syzygium Cumini</i> for seed germination and wastewater purification. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2020</b> , 1-16	1.8	32
224	Green synthesis of magnesium oxide nanoparticles using <i>Dalbergia sissoo</i> extract for photocatalytic activity and antibacterial efficacy. <i>Applied Nanoscience (Switzerland)</i> , <b>2020</b> , 10, 2351-2364	3.3	32
223	Synthesis of three-dimensional WO3 octahedra: characterization, optical and efficient photocatalytic properties. <i>RSC Advances</i> , <b>2014</b> , 4, 37914-37920	3.7	32
222	Insighting role of reduced graphene oxide in BiVO4 nanoparticles for improved photocatalytic hydrogen evolution and dyes degradation. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 2410-2417	4.5	31
221	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> , <b>2020</b> , 49, 224-232	12	31
220	Bimetallic metal-organic frameworks and MOF-derived composites: Recent progress on electro- and photoelectrocatalytic applications. <i>Coordination Chemistry Reviews</i> , <b>2022</b> , 451, 214264	23.2	30
219	Bismuth-based heterojunction nanocomposites for photocatalysis and heavy metal detection applications. <i>Nano Structures Nano Objects</i> , <b>2021</b> , 27, 100762	5.6	30
218	Lantern-like bismuth oxyiodide embedded typha-based carbon via in situ self-template and ion exchange-recrystallization for high-performance photocatalysis. <i>Dalton Transactions</i> , <b>2018</b> , 47, 6692-6701	4.3	29
217	Electrical and optical properties of single zigzag SnO2 nanobelts. <i>CrystEngComm</i> , <b>2013</b> , 15, 2106	3.3	29
216	Green Synthesis of TiO2 Nanoparticle Using Cinnamon Powder Extract and the Study of Optical Properties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2020</b> , 30, 1425-1429	3.2	29
215	A review on copper vanadate-based nanostructures for photocatalysis energy production. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 9-28	4.5	28
214	Facile synthesis and antimicrobial activity of CdS-AgS nanocomposites. <i>Bioorganic Chemistry</i> , <b>2019</b> , 90, 103064	5.1	27
213	Fabrication of V2O5 super long nanobelts: optical, in situ electrical and field emission properties. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 5197-5202	3.6	27



212	A review on remediation of harmful dyes through visible light-driven WO <sub>3</sub> photocatalytic nanomaterials. <i>International Journal of Environmental Science and Technology</i> , <b>2019</b> , 16, 4975-4988	3.3	26
211	Green synthesis of TiO <sub>2</sub> nanoparticles using lemon peel extract: their optical and photocatalytic properties. <i>International Journal of Environmental Analytical Chemistry</i> , <b>2020</b> , 1-9	1.8	26
210	Facile hydrothermal synthesis of 3D flower-like La-MoS <sub>2</sub> nanostructure for photocatalytic hydrogen energy production. <i>International Journal of Energy Research</i> , <b>2019</b> , 43, 491-499	4.5	26
209	Aquatic Biodegradation of Methylene Blue by Copper Oxide Nanoparticles Synthesized from Azadirachta indica Leaves Extract. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2018</b> , 28, 2455-2462	3.2	25
208	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> , <b>2021</b> , 46, 4947-4980	6.7	25
207	Template free and facile microwave-assisted synthesis method to prepare mesoporous copper sulfide nanosheets for high-performance hybrid supercapacitor. <i>Electrochimica Acta</i> , <b>2019</b> , 319, 49-60	6.7	24
206	Enhanced photocatalytic hydrogen energy production of g-C <sub>3</sub> N <sub>4</sub> -WO <sub>3</sub> composites under visible light irradiation. <i>International Journal of Energy Research</i> , <b>2018</b> , 42, 4667-4673	4.5	24
205	Fabrication of ZnV <sub>2</sub> O <sub>6</sub> nanostructures: Their energy storage and PL properties. <i>Materials Letters</i> , <b>2015</b> , 155, 15-17	3.3	23
204	An Optimal Au Grating Structure for Light Absorption in Amorphous Silicon Thin Film Solar Cell. <i>Plasmonics</i> , <b>2019</b> , 14, 147-154	2.4	23
203	Role of CuCo <sub>2</sub> S <sub>4</sub> in Z-scheme MoSe <sub>2</sub> /BiVO <sub>4</sub> composite for efficient photocatalytic reduction of heavy metals. <i>Ceramics International</i> , <b>2019</b> , 45, 23225-23232	5.1	23
202	Optical and electrical characterization of ZnO/CuO heterojunction solar cells. <i>Optik</i> , <b>2017</b> , 130, 372-377	2.5	23
201	BiOI/nitrogen-doped hierarchical carbon (NHC) composites with tremella-like structure for high photocatalytic performance. <i>Chemosphere</i> , <b>2019</b> , 229, 426-433	8.4	22
200	Role of anions on structure and pseudocapacitive performance of metal double hydroxides decorated with nitrogen-doped graphene. <i>Science China Materials</i> , <b>2015</b> , 58, 114-125	7.1	22
199	COVID-19: Healthy environmental impact for public safety and menaces oil market. <i>Science of the Total Environment</i> , <b>2020</b> , 740, 140054	10.2	22
198	In-Situ Synthesis of Nb <sub>2</sub> O <sub>5</sub> /g-C <sub>3</sub> N <sub>4</sub> Heterostructures as Highly Efficient Photocatalysts for Molecular H <sub>2</sub> Evolution under Solar Illumination. <i>Catalysts</i> , <b>2019</b> , 9, 169	4	21
197	Novel Zn <sub>2</sub> V <sub>2</sub> O <sub>7</sub> hierarchical nanostructures: Optical and hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 9359-9364	6.7	21
196	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> , <b>2020</b> , 30, 3837-3861	3.2	21
195	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> , <b>2020</b> , 219, 165138	2.5	21

194	Photocatalytic degradation of RhB from an aqueous solution using Ag <sub>3</sub> PO <sub>4</sub> /N-TiO <sub>2</sub> heterostructure. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 313, 113522	6	21
193	Synergistic effects of single/multi-walls carbon nanotubes in TiO <sub>2</sub> and process optimization using response surface methodology for photo-catalytic H <sub>2</sub> evolution. <i>Journal of Environmental Chemical Engineering</i> , <b>2019</b> , 7, 103361	6.8	21
192	Synthesis of novel hollow microflowers (NHMF) of Nb <sub>3</sub> O <sub>7</sub> F, their optical and hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 13174-13179	6.7	21
191	Joint brightness control and data transmission for visible light communication systems based on white LEDs <b>2011</b> ,		21
190	Role of cerium-doping in CoFe <sub>2</sub> O <sub>4</sub> electrodes for high performance supercapacitors. <i>Journal of Energy Storage</i> , <b>2020</b> , 29, 101452	7.8	21
189	Joint Rate-Brightness Control using Variable Rate MPPM for LED Based Visible Light Communication Systems. <i>IEEE Transactions on Wireless Communications</i> , <b>2013</b> , 12, 4604-4611	9.6	20
188	Activated carbon doped WO <sub>3</sub> for photocatalytic degradation of rhodamine-B. <i>Applied Nanoscience (Switzerland)</i> , <b>2020</b> , 10, 869-877	3.3	19
187	Interwoven Nanowire Based On-Chip Asymmetric Microsupercapacitor with High Integrability, Areal Energy, and Power Density. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2001873	21.8	18
186	Investigation of Photocatalytic and Seed Germination Effects of TiO <sub>2</sub> Nanoparticles Synthesized by Melia azedarach L. Leaf Extract. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2019</b> , 29, 2133-2144	3.2	17
185	Integration of VS <sub>2</sub> nanosheets into carbon for high energy density micro-supercapacitor. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 823, 151769	5.7	17
184	Structural Engineering and Coupling of Two-Dimensional Transition Metal Compounds for Micro-Supercapacitor Electrodes. <i>ACS Central Science</i> , <b>2020</b> , 6, 1901-1915	16.8	17
183	Intelligent networks for crosswise stream nanofluidic model with Cu <sub>2</sub> O over porous stretching medium. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 15322-15336	6.7	17
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54	Electrochemical study of Mo-doped Co3O4 nanostructures synthesized by sol-gel method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 3512-3521	2.1	2
53	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> , <b>2021</b> , 11, 1045-1056	3.3	2
52	Role of Nanocatalyst (Photocatalysts) for Waste Water Treatment. <i>Current Analytical Chemistry</i> , <b>2021</b> , 17, 138-149	1.7	2
51	Recent development in shape memory based perovskite materials for energy conversion and storage applications. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 20545	4.5	2

50	The enhanced electrical and dielectric properties of cobalt-based spinel ferrites for high-frequency applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 22440-22449	2.1	2
49	Capacitive properties of novel Sb-doped Co <sub>3</sub> O <sub>4</sub> electrode material synthesized by hydrothermal method. <i>Ceramics International</i> , <b>2021</b> , 47, 32210-32217	5.1	2
48	Synergistic effect of Cu <sub>x</sub> /Mg <sub>x</sub> and Zn <sub>1-x</sub> O for enhanced photocatalytic degradation and antibacterial activity. <i>Physica B: Condensed Matter</i> , <b>2022</b> , 624, 413396	2.8	2
47	Biomimetic brain-like nanostructures for solid polymer electrolytes with fast ion transport. <i>Science China Materials</i> , <b>2021</b> , 14, 100000	7.1	2
46	TiO <sub>2</sub> -Graphene-Based Composites: Synthesis, Characterization, and Application in Photocatalysis of Organic Pollutants <b>2018</b> , 95-122		1
45	Energetic metallic ion implantation in polymers via cost-effective laser-driven ion source. <i>Applied Physics B: Lasers and Optics</i> , <b>2017</b> , 123, 1	1.9	1
44	Rapid photocatalytic degradation of dye and energy production through ternary BiVO <sub>4</sub> /Ag/NiFe <sub>2</sub> O <sub>4</sub> nanocomposites under visible light irradiation. <i>Ceramics International</i> , <b>2022</b> , 48, 15210-15217	5.1	1
43	Role of Photocatalysts in Air Purification <b>2020</b> , 597-597		1
42	Carbonaceous nanomaterials as photocatalysts <b>2020</b> , 97-117		1
41	Nanostructure materials and their classification by dimensionality <b>2020</b> , 27-44		1
40	History and fundamentals of nanoscience and nanotechnology <b>2020</b> , 1-25		1
39	Insighting role of activated carbon based nanostructures for complete photocatalytic degradation of hazardous pharmaceutical compound. <i>Applied Nanoscience (Switzerland)</i> , <b>2021</b> , 11, 1117-1126	3.3	1
38	Novel Cr and Sn co-doped Co <sub>3</sub> O <sub>4</sub> polygon-based electrode material for supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 11467-11477	2.1	1
37	Irradiation effects of Cu ions on the electrical and morphological properties of polypropylene. <i>Polymers and Polymer Composites</i> , <b>2019</b> , 27, 103-107	0.8	1
36	Commissioning and evaluation of a radiochromic EBT3 film dosimetry system. <i>Journal of Radiotherapy in Practice</i> , <b>2019</b> , 18, 55-62	0.4	1
35	Construction of visible-light-driven ternary ZnO-MoS <sub>2</sub> -BiVO <sub>4</sub> composites for enhanced photocatalytic activity. <i>Applied Nanoscience (Switzerland)</i> , <b>2021</b> , 11, 241-247	3.3	1
34	Structural, Optical, and Magnetic Properties of Pure and Vanadium-Doped NiO Microstructures for Spintronics Applications. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2021</b> , 34, 1801-1806	1.5	1
33	Nuclear Desalination. <i>Advances in Science, Technology and Innovation</i> , <b>2021</b> , 121-135	0.3	1

32	Construction of Bi <sub>2</sub> WO <sub>6</sub> /MoSe <sub>2</sub> /Bi <sub>12</sub> O <sub>17</sub> Cl <sub>x</sub> Br <sub>2-x</sub> heterostructures for the production of hydrogen energy and degradation of methylene blue. <i>Applied Nanoscience (Switzerland)</i> , <b>2021</b> , 11, 951-959	3.3	1
31	Effect of Li, K and Be doping on phase stability, band structure and optoelectronic response of SrTiO <sub>3</sub> perovskite for semiconductor devices: A computational insight. <i>Optik</i> , <b>2021</b> , 227, 166044	2.5	1
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29	Recent advances in the rational design of 2D MXenes in energy conversion and storage systems. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 20448	4.5	1
28	CO <sub>2</sub> -Philic Surfactants Structural Morphology Prerequisites for CO <sub>2</sub> Philicity for Foam Durability for EOR Applications		1
27	Synthesis and characterization of Bi-doped antimony sulphide thin films for solar absorption applications. <i>Physica B: Condensed Matter</i> , <b>2021</b> , 619, 413196	2.8	1
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24	Integrating ZnO/CdS Schottky junction for remarkably enhanced photocatalytic performance under solar spectrum. <i>Applied Nanoscience (Switzerland)</i> , 1	3.3	0
23	Synthesis and characterization of copper-based spinel ferrites for high frequency applications. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2021</b> , 168778	2.8	0
22	Role of Photocatalysis in Green Energy Production <b>2022</b> , 590-596		0
21	Novel Smart Photocatalysis for Energy Production and Environment Applications <b>2020</b> , 635-635		0
20	Recent advances in the development of photocatalysis and future perspectives <b>2020</b> , 221-223		0
19	Recent advances in the rational design of 2D MXenes in energy conversion and storage systems. <i>International Journal of Energy Research</i> , <b>2021</b> , 45, 17563-17576	4.5	0
18	High-yield synthesis of silver nanowires for transparent conducting PET films. <i>Beilstein Journal of Nanotechnology</i> , <b>2021</b> , 12, 624-632	3	0
17	Tailorable and Rationally Designed MoS <sub>2</sub> Based Heterostructure Photocatalyst for Efficient Photocatalytic Degradation of Phenol Under the Visible Light. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2020</b> , 30, 3965-3972	3.2	0
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13	Role of Nanomaterials in the Detoxification of Harmful Dyes <b>2022</b> , 373-386	
12	Applications of Polymeric Materials in Biomedical Engineering. <i>Advances in Science, Technology and Innovation</i> , <b>2021</b> , 133-142	0.3
11	Photocatalytic nanomaterials for the removal of pharmaceuticals <b>2020</b> , 191-202	
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4	Enhancement in Physical Properties of Silver-Doped Fe <sub>3</sub> Ni Invar Nano-alloy Using Chemical Reduction Method. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2021</b> , 34, 3237	1.5
3	Application of Membrane in Reaction Engineering for Green Synthesis. <i>Advances in Science, Technology and Innovation</i> , <b>2021</b> , 163-171	0.3
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