

Muhammad Tahir

List of Publications by Year in descending order

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313
papers

15,487
citations

18436

62
h-index

23472

111
g-index

320
all docs

320
docs citations

320
times ranked

16020
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrocatalytic oxygen evolution reaction for energy conversion and storage: A comprehensive review. <i>Nano Energy</i> , 2017, 37, 136-157.	8.2	1,257
2	Hollow Cobalt-Based Bimetallic Sulfide Polyhedra for Efficient All-pH-Value Electrochemical and Photocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2016, 138, 1359-1365.	6.6	656
3	A critical review in strategies to improve photocatalytic water splitting towards hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 540-577.	3.8	573
4	A review on green synthesis of silver nanoparticles and their applications. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2017, 45, 1272-1291.	1.9	542
5	Multifunctional g-C ₃ N ₄ Nanofibers: A Template-Free Fabrication and Enhanced Optical, Electrochemical, and Photocatalyst Properties. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 1258-1265.	4.0	360
6	A critical review on TiO ₂ based photocatalytic CO ₂ reduction system: Strategies to improve efficiency. <i>Journal of CO₂ Utilization</i> , 2018, 26, 98-122.	3.3	313
7	Carbonaceous-TiO ₂ nanomaterials for photocatalytic degradation of pollutants: A review. <i>Ceramics International</i> , 2017, 43, 14552-14571.	2.3	288
8	MOF-derived C-doped ZnO prepared via a two-step calcination for efficient photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2016, 189, 181-191.	10.8	287
9	CdS Nanoparticle-Decorated Cd Nanosheets for Efficient Visible Light-Driven Photocatalytic Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2016, 6, 1501241.	10.2	253
10	Tubular graphitic-C ₃ N ₄ : a prospective material for energy storage and green photocatalysis. <i>Journal of Materials Chemistry A</i> , 2013, 1, 13949.	5.2	238
11	Popcorn-Derived Porous Carbon Flakes with an Ultrahigh Specific Surface Area for Superior Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30626-30634.	4.0	227
12	Bimetallic metal-organic frameworks and MOF-derived composites: Recent progress on electro- and photoelectrocatalytic applications. <i>Coordination Chemistry Reviews</i> , 2022, 451, 214264.	9.5	203
13	High-Valence-State NiO/Co ₃ O ₄ Nanoparticles on Nitrogen-Doped Carbon for Oxygen Evolution at Low Overpotential. <i>ACS Energy Letters</i> , 2017, 2, 2177-2182.	8.8	200
14	Direct Z-scheme composite of CdS and oxygen-defected CdWO ₄ : An efficient visible-light-driven photocatalyst for hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2016, 198, 154-161.	10.8	196
15	Recent advancements in engineering approach towards design of photo-reactors for selective photocatalytic CO ₂ reduction to renewable fuels. <i>Journal of CO₂ Utilization</i> , 2019, 29, 205-239.	3.3	189
16	Photocatalytic reduction of carbon dioxide with water vapors over montmorillonite modified TiO ₂ nanocomposites. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 512-522.	10.8	163
17	Well-designed ZnV ₂ O ₆ /g-C ₃ N ₄ 2D/2D nanosheets heterojunction with faster charges separation via pCN as mediator towards enhanced photocatalytic reduction of CO ₂ to fuels. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 312-326.	10.8	162
18	Removal of acetylsalicylate and methyl-theobromine from aqueous environment using nano-photocatalyst WO ₃ -TiO ₂ @g-C ₃ N ₄ composite. <i>Journal of Hazardous Materials</i> , 2019, 363, 205-213.	6.5	157

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19	Synthesis of Novel ZnV ₂ O ₄ Hierarchical Nanospheres and Their Applications as Electrochemical Supercapacitor and Hydrogen Storage Material. ACS Applied Materials & Interfaces, 2014, 6, 13635-13641.	4.0	150
20	Template free synthesis of CuS nanosheet-based hierarchical microspheres: an efficient natural light driven photocatalyst. CrystEngComm, 2014, 16, 5290.	1.3	147
21	Carbon nanodots and rare metals (La, Gd, Er) doped tungsten oxide nanostructures for photocatalytic dyes degradation and hydrogen production. Separation and Purification Technology, 2019, 209, 94-102.	3.9	142
22	Nanostructured-based WO ₃ photocatalysts: recent development, activity enhancement, perspectives and applications for wastewater treatment. International Journal of Environmental Science and Technology, 2017, 14, 2519-2542.	1.8	138
23	Enhanced photocatalytic activity of Al and Fe co-doped ZnO nanorods for methylene blue degradation. Ceramics International, 2019, 45, 21430-21435.	2.3	122
24	Chlorine-doped carbonated cobalt hydroxide for supercapacitors with enormously high pseudocapacitive performance and energy density. Nano Energy, 2015, 11, 267-276.	8.2	121
25	The detoxification of heavy metals from aqueous environment using nano-photocatalysis approach: a review. Environmental Science and Pollution Research, 2019, 26, 10515-10528.	2.7	121
26	Bifunctional catalysts of Co ₃ O ₄ @GCN tubular nanostructured (TNS) hybrids for oxygen and hydrogen evolution reactions. Nano Research, 2015, 8, 3725-3736.	5.8	117
27	Role of MoSe ₂ on nanostructures WO ₃ -CNT performance for photocatalytic hydrogen evolution. Ceramics International, 2018, 44, 6686-6690.	2.3	111
28	Improved photocatalytic performance of Gd and Nd co-doped ZnO nanorods for the degradation of methylene blue. Ceramics International, 2020, 46, 11955-11961.	2.3	107
29	A novel Z-scheme WO ₃ /CdWO ₄ photocatalyst with enhanced visible-light photocatalytic activity for the degradation of organic pollutants. RSC Advances, 2015, 5, 6019-6026.	1.7	104
30	Tunable porous structure of carbon nanosheets derived from puffed rice for high energy density supercapacitors. Journal of Power Sources, 2017, 371, 148-155.	4.0	104
31	Enhanced photocatalytic performance of visible-light active graphene-WO ₃ nanostructures for hydrogen production. Materials Science in Semiconductor Processing, 2018, 84, 36-41.	1.9	102
32	Role of europium on WO ₃ performance under visible-light for photocatalytic activity. Ceramics International, 2018, 44, 5705-5709.	2.3	101
33	Well-dispersed molybdenum nitrides on a nitrogen-doped carbon matrix for highly efficient hydrogen evolution in alkaline media. Journal of Materials Chemistry A, 2017, 5, 20932-20937.	5.2	100
34	A Universal Grid-Connected Fuel-Cell Inverter for Residential Application. IEEE Transactions on Industrial Electronics, 2010, 57, 3431-3447.	5.2	99
35	Eco-friendly green and biosynthesis of copper oxide nanoparticles using Citrofornunella microcarpa leaves extract for efficient photocatalytic degradation of Rhodamin B dye form textile wastewater. Optik, 2020, 208, 164053.	1.4	97
36	Large scale production of novel g-C ₃ N ₄ micro strings with high surface area and versatile photodegradation ability. CrystEngComm, 2014, 16, 1825.	1.3	96

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37	Trimetallic metal-organic frameworks and derived materials for environmental remediation and electrochemical energy storage and conversion. <i>Coordination Chemistry Reviews</i> , 2022, 461, 214505.	9.5	95
38	Green synthesis of magnesium oxide nanoparticles using <i>Dalbergia sissoo</i> extract for photocatalytic activity and antibacterial efficacy. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 2351-2364.	1.6	90
39	Efficient water oxidation through strongly coupled graphitic C ₃ N ₄ coated cobalt hydroxide nanowires. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12940-12946.	5.2	88
40	Novel and facile synthesis of silver nanoparticles using <i>Albizia procera</i> leaf extract for dye degradation and antibacterial applications. <i>Materials Science and Engineering C</i> , 2019, 99, 1313-1324.	3.8	88
41	A Review on Novel Eco-Friendly Green Approach to Synthesis TiO ₂ Nanoparticles Using Different Extracts. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 1552-1564.	1.9	85
42	A Review on Synthesis, Characterization and Applications of Copper Nanoparticles Using Green Method. <i>Nano</i> , 2017, 12, 1750043.	0.5	83
43	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> , 2022, 102, 23-38.	1.8	83
44	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.	1.9	82
45	One Dimensional Graphitic Carbon Nitrides as Effective Metal-Free Oxygen Reduction Catalysts. <i>Scientific Reports</i> , 2015, 5, 12389.	1.6	81
46	Narrowing the Band Gap of BiOCl for the Hydroxyl Radical Generation of Photocatalysis under Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16569-16576.	3.2	81
47	Au-NPs embedded ZrO ₂ 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.	3.1	81
48	Fabrication of zero to three dimensional nanostructured molybdenum sulfides and their electrochemical and photocatalytic applications. <i>Nanoscale</i> , 2016, 8, 18250-18269.	2.8	79
49	WO ₃ Nanostructures-Based Photocatalyst Approach Towards Degradation of RhB Dye. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 1107-1113.	1.9	79
50	Synergistic effects of 2D/2D ZnV ₂ O ₆ /RGO nanosheets heterojunction for stable and high performance photo-induced CO ₂ reduction to solar fuels. <i>Chemical Engineering Journal</i> , 2018, 334, 2142-2153.	6.6	76
51	Boosting the performance of visible light-driven WO ₃ /g-C ₃ N ₄ anchored with BiVO ₄ nanoparticles for photocatalytic hydrogen evolution. <i>International Journal of Energy Research</i> , 2019, 43, 5747-5758.	2.2	76
52	La-modified TiO ₂ /carbon nanotubes assembly nanocomposite for efficient photocatalytic hydrogen evolution from glycerol-water mixture. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 3711-3725.	3.8	76
53	The role of graphene and europium on TiO ₂ performance for photocatalytic hydrogen evolution. <i>Ceramics International</i> , 2018, 44, 546-549.	2.3	75
54	Fabrication of heterogeneous photocatalysts for insight role of carbon nanofibre in hierarchical WO ₃ / MoSe ₂ composite for enhanced photocatalytic hydrogen generation. <i>Ceramics International</i> , 2019, 45, 5547-5552.	2.3	75

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55	Synthesis of CuS flowers exhibiting versatile photo-catalyst response. <i>New Journal of Chemistry</i> , 2015, 39, 1459-1468.	1.4	72
56	Green synthesis of TiO ₂ nanoparticles using lemon peel extract: their optical and photocatalytic properties. <i>International Journal of Environmental Analytical Chemistry</i> , 2022, 102, 434-442.	1.8	70
57	The synergistic effect between WO ₃ and g-C ₃ N ₄ towards efficient visible-light-driven photocatalytic performance. <i>New Journal of Chemistry</i> , 2014, 38, 5462-5469.	1.4	69
58	Co-Electrodeposited porous PEDOT/CNT microelectrodes for integrated micro-supercapacitors with high energy density, high rate capability, and long cycling life. <i>Nanoscale</i> , 2019, 11, 7761-7770.	2.8	69
59	Hierarchical 3D VO ₂ /ZnV ₂ O ₄ microspheres as an excellent visible light photocatalyst for CO ₂ reduction to solar fuels. <i>Applied Surface Science</i> , 2019, 467-468, 1170-1180.	3.1	69
60	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.	3.8	69
61	Enhanced photocatalytic performance of CdO-WO ₃ composite for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 24690-24697.	3.8	67
62	Microwave assisted synthesis of mesoporous NiCo ₂ O ₄ nanosheets as electrode material for advanced flexible supercapacitors. <i>RSC Advances</i> , 2015, 5, 33146-33154.	1.7	65
63	Construction of MoS ₂ /CND-WO ₃ Ternary Composite for Photocatalytic Hydrogen Evolution. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 2160-2168.	1.9	65
64	Bismuth-based heterojunction nanocomposites for photocatalysis and heavy metal detection applications. <i>Nano Structures Nano Objects</i> , 2021, 27, 100762.	1.9	64
65	Synthesis of mid-infrared SnSe nanowires and their optoelectronic properties. <i>CrystEngComm</i> , 2014, 16, 3470.	1.3	63
66	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.	2.3	63
67	Self-triggered Communication Enabled Control of Distributed Generation in Microgrids. <i>IEEE Transactions on Industrial Informatics</i> , 2015, , 1-1.	7.2	62
68	Role of fullerene to improve the WO ₃ performance for photocatalytic applications and hydrogen evolution. <i>International Journal of Energy Research</i> , 2018, 42, 4783-4789.	2.2	62
69	Material and method selection for efficient solid oxide fuel cell anode: Recent advancements and reviews. <i>International Journal of Energy Research</i> , 2019, 43, 2423-2446.	2.2	62
70	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.	4.6	61
71	Effect of the morphology of CuS upon the photocatalytic degradation of organic dyes. <i>RSC Advances</i> , 2014, 4, 63447-63456.	1.7	58
72	Engineering the performance of heterogeneous WO ₃ /fullerene@Ni ₃ B/Ni(OH) ₂ Photocatalysts for Hydrogen Generation. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21738-21745.	3.8	58

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73	Role of cerium-doping in CoFe ₂ O ₄ electrodes for high performance supercapacitors. Journal of Energy Storage, 2020, 29, 101452.	3.9	58
74	Potential of Biological Agents in Decontamination of Agricultural Soil. Scientifica, 2016, 2016, 1-9.	0.6	57
75	Green synthesis and characterization of novel iron particles by using different extracts. Journal of Alloys and Compounds, 2018, 732, 935-944.	2.8	57
76	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. Journal of CO ₂ Utilization, 2020, 41, 101270.	3.3	56
77	A Comprehensive Study on Methods and Materials for Photocatalytic Water Splitting and Hydrogen Production as a Renewable Energy Resource. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 3837-3861.	1.9	56
78	Synthesis, evolution and hydrogen storage properties of ZnV ₂ O ₄ glomerulus nano/microspheres: A prospective material for energy storage. International Journal of Hydrogen Energy, 2014, 39, 7842-7851.	3.8	55
79	Synthesis of Nanostructured Based WO ₃ Materials for Photocatalytic Applications. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 777-782.	1.9	54
80	Microbial photoelectrochemical cell for improved hydrogen evolution using nickel ferrite incorporated WO ₃ under visible light irradiation. International Journal of Hydrogen Energy, 2019, 44, 17316-17322.	3.8	54
81	Structural Engineering and Coupling of Two-Dimensional Transition Metal Compounds for Micro-Supercapacitor Electrodes. ACS Central Science, 2020, 6, 1901-1915.	5.3	53
82	Boosting the electrochemical performance and reliability of conducting polymer microelectrode via intermediate graphene for on-chip asymmetric micro-supercapacitor. Journal of Energy Chemistry, 2020, 49, 224-232.	7.1	53
83	Effect of synthesis technique on electrochemical performance of bismuth selenide. Journal of Power Sources, 2013, 229, 216-222.	4.0	52
84	Highly visible light responsive metal loaded N/TiO ₂ nanoparticles for photocatalytic conversion of CO ₂ into methane. Ceramics International, 2017, 43, 6771-6777.	2.3	51
85	Synthesis of hierarchical ZnV ₂ O ₆ nanosheets with enhanced activity and stability for visible light driven CO ₂ reduction to solar fuels. Applied Surface Science, 2018, 435, 953-962.	3.1	51
86	Template-free synthesis of highly ordered 3D-hollow hierarchical Nb ₂ O ₅ superstructures as an asymmetric supercapacitor by using inorganic electrolyte. Electrochimica Acta, 2016, 216, 332-338.	2.6	47
87	Synthesis of novel ZnV ₂ O ₄ spinel oxide nanosheets and their hydrogen storage properties. CrystEngComm, 2014, 16, 894-899.	1.3	46
88	Facile hydrothermal synthesis of 3D flower-like LaMoS ₂ nanostructure for photocatalytic hydrogen energy production. International Journal of Energy Research, 2019, 43, 491-499.	2.2	45
89	An Optimal Au Grating Structure for Light Absorption in Amorphous Silicon Thin Film Solar Cell. Plasmonics, 2019, 14, 147-154.	1.8	44
90	Role of CuCo ₂ S ₄ in Z-scheme MoSe ₂ /BiVO ₄ composite for efficient photocatalytic reduction of heavy metals. Ceramics International, 2019, 45, 23225-23232.	2.3	43

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91	A review on copper vanadate-based nanostructures for photocatalysis energy production. International Journal of Energy Research, 2019, 43, 9-28.	2.2	43
92	Core-Shell MOF-in-MOF Nanopore Bifunctional Host of Electrolyte for High-Performance Solid-State Lithium Batteries. Small Methods, 2021, 5, e2100508.	4.6	43
93	Facile One-Step Microwave-Assisted Method to Synthesize Nickel Selenide Nanosheets for High-Performance Hybrid Supercapacitor. Journal of Colloid and Interface Science, 2022, 608, 1005-1014.	5.0	43
94	A review on remediation of harmful dyes through visible light-driven WO ₃ photocatalytic nanomaterials. International Journal of Environmental Science and Technology, 2019, 16, 4975-4988.	1.8	42
95	Role of nanophotocatalysts for the treatment of hazardous organic and inorganic pollutants in wastewater. International Journal of Environmental Analytical Chemistry, 2022, 102, 491-515.	1.8	42
96	Synergistically improved charge separation in bimetallic Co-La modified 3D g-C ₃ N ₄ for enhanced photocatalytic H ₂ production under UV-visible light. International Journal of Hydrogen Energy, 2021, 46, 20995-21012.	3.8	42
97	First-principles calculations to investigate structural, electronics, optical and elastic properties of Sn-based inorganic Halide-perovskites CsSnX ₃ (X=Al, Br, Cl) for solar cell applications. Computational and Theoretical Chemistry, 2022, 1209, 113624.	1.1	42
98	Insighting role of reduced graphene oxide in BiVO ₄ nanoparticles for improved photocatalytic hydrogen evolution and dyes degradation. International Journal of Energy Research, 2019, 43, 2410-2417.	2.2	41
99	Lantern-like bismuth oxyiodide embedded typha-based carbon <i>in situ</i> self-template and ion exchange-recrystallization for high-performance photocatalysis. Dalton Transactions, 2018, 47, 6692-6701.	1.6	40
100	In-Situ Synthesis of Nb ₂ O ₅ /g-C ₃ N ₄ Heterostructures as Highly Efficient Photocatalysts for Molecular H ₂ Evolution under Solar Illumination. Catalysts, 2019, 9, 169.	1.6	40
101	Interwoven Nanowire Based On-Chip Asymmetric Microsupercapacitor with High Integrability, Areal Energy, and Power Density. Advanced Energy Materials, 2020, 10, 2001873.	10.2	40
102	Role of Nanotechnology in Photocatalysis. , 2022, , 578-589.		40
103	Intelligent computing for the dynamics of fluidic system of electrically conducting Ag/Cu nanoparticles with mixed convection for hydrogen possessions. International Journal of Hydrogen Energy, 2021, 46, 4947-4980.	3.8	40
104	Aquatic Biodegradation of Methylene Blue by Copper Oxide Nanoparticles Synthesized from Azadirachta indica Leaves Extract. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 2455-2462.	1.9	39
105	Template free and facile microwave-assisted synthesis method to prepare mesoporous copper sulfide nanosheets for high-performance hybrid supercapacitor. Electrochimica Acta, 2019, 319, 49-60.	2.6	39
106	Promotion of Nitrogen Reserve and Electronic Regulation in Bamboo-like Carbon Tubules by Cobalt Nanoparticles for Highly Efficient ORR. ACS Applied Energy Materials, 2020, 3, 2323-2330.	2.5	39
107	Cogent synergic effect of TiS ₂ /g-C ₃ N ₄ composite with enhanced electrochemical performance for supercapacitor. Ceramics International, 2020, 46, 27601-27607.	2.3	39
108	Facile synthesis of novel Nb ₃ O ₇ F nanoflowers, their optical and photocatalytic properties. CrystEngComm, 2013, 15, 8146.	1.3	38

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109	Synthesis of three-dimensional WO ₃ octahedra: characterization, optical and efficient photocatalytic properties. RSC Advances, 2014, 4, 37914-37920.	1.7	38
110	Morphology Tailored Synthesis of C-WO ₃ nanostructures and its Photocatalytic Application. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 738-745.	1.9	38
111	Semiconductor nanomaterials for the detoxification of dyes in real wastewater under visible-light photocatalysis. International Journal of Environmental Analytical Chemistry, 2021, 101, 1735-1749.	1.8	37
112	Facile synthesis and antimicrobial activity of CdS-Ag ₂ S nanocomposites. Bioorganic Chemistry, 2019, 90, 103064.	2.0	37
113	Bi ₄ O ₅ I ₂ /nitrogen-doped hierarchical carbon (NHC) composites with tremella-like structure for high photocatalytic performance. Chemosphere, 2019, 229, 426-433.	4.2	36
114	A perspective on the fabrication of heterogeneous photocatalysts for enhanced hydrogen production. International Journal of Hydrogen Energy, 2020, 45, 24544-24557.	3.8	36
115	Design of 3ÂkW integrated power generation system from solar and biogas. International Journal of Hydrogen Energy, 2020, 45, 12711-12720.	3.8	36
116	Investigation of in-vitro antibacterial and seed germination properties of green synthesized pure and nickel doped ZnO nanoparticles. Physica B: Condensed Matter, 2021, 601, 412563.	1.3	36
117	Novel Citrus aurantifolia leaves based biosynthesis of copper oxide nanoparticles for environmental and wastewater purification as an efficient photocatalyst and antibacterial agent. Optik, 2020, 219, 165138.	1.4	35
118	Enhanced photocatalytic hydrogen energy production of g-C ₃ N ₄ -WO ₃ composites under visible light irradiation. International Journal of Energy Research, 2018, 42, 4667-4673.	2.2	34
119	Improved Dynamic Performance and Hierarchical Energy Management of Microgrids With Energy Routing. IEEE Transactions on Industrial Informatics, 2019, 15, 3218-3229.	7.2	34
120	Activated carbon doped WO ₃ for photocatalytic degradation of rhodamine-B. Applied Nanoscience (Switzerland), 2020, 10, 869-877.	1.6	34
121	Intelligent networks for crosswise stream nanofluidic model with Cuâ€H ₂ O over porous stretching medium. International Journal of Hydrogen Energy, 2021, 46, 15322-15336.	3.8	34
122	Emerging 2D-Nanostructured materials for electrochemical and sensing Application-A review. International Journal of Hydrogen Energy, 2022, 47, 1371-1389.	3.8	34
123	Structural, electronics, magnetic, optical, mechanical and hydrogen storage properties of <sc>Gaâ€based hydrideâ€perovskites</sc> <i>X</i> <sc>GaH</sc> ₃ </sc> (<i>X</i> = ÂK, Li). International Journal of Energy Research, 2022, 46, 15617-15626.	2.2	34
124	Green synthesis of novel lanthanum doped copper oxide nanoparticles for photocatalytic application: Correlation between experiment and COMSOL simulation. Ceramics International, 2022, 48, 13420-13430.	2.3	33
125	Synergistic effects of single/multi-walls carbon nanotubes in TiO ₂ and process optimization using response surface methodology for photo-catalytic H ₂ evolution. Journal of Environmental Chemical Engineering, 2019, 7, 103361.	3.3	32
126	Integration of VS ₂ nanosheets into carbon for high energy density micro-supercapacitor. Journal of Alloys and Compounds, 2020, 823, 151769.	2.8	32

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127	Photocatalytic degradation and hydrogen evolution using bismuth tungstate based nanocomposites under visible light irradiation. International Journal of Hydrogen Energy, 2020, 45, 22833-22847.	3.8	32
128	COVID-19: Healthy environmental impact for public safety and menaces oil market. Science of the Total Environment, 2020, 740, 140054.	3.9	32
129	A review on sources of heavy metals, their toxicity and removal technique using physico-chemical processes from wastewater. Environmental Science and Pollution Research, 2022, 29, 16772-16781.	2.7	32
130	Fabrication of ZnV ₂ O ₆ nanostructures: Their energy storage and PL properties. Materials Letters, 2015, 155, 15-17.	1.3	31
131	Promotional role of MgO on sorption-enhanced steam reforming of ethanol over Ni/CaO catalysts. AICHE Journal, 2020, 66, e16877.	1.8	31
132	Lead-free relaxor-ferroelectric ceramics for high-energy-storage applications. Journal of Materials Chemistry C, 2020, 8, 8962-8970.	2.7	31
133	Fabrication of V ₂ O ₅ super long nanobelts: optical, in situ electrical and field emission properties. New Journal of Chemistry, 2015, 39, 5197-5202.	1.4	30
134	Optical and electrical characterization of ZnO/CuO heterojunction solar cells. Optik, 2017, 130, 372-377.	1.4	30
135	Electrical and optical properties of single zigzag SnO ₂ nanobelts. CrystEngComm, 2013, 15, 2106.	1.3	29
136	Investigation of Photocatalytic and Seed Germination Effects of TiO ₂ Nanoparticles Synthesized by Melia azedarach L. Leaf Extract. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 2133-2144.	1.9	28
137	Advances in photo-catalysis approach for the removal of toxic personal care product in aqueous environment. Environment, Development and Sustainability, 2020, 22, 6029-6052.	2.7	28
138	A review of the interfacial properties of 2-D materials for energy storage and sensor applications. Chinese Journal of Physics, 2020, 66, 246-257.	2.0	28
139	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. Materials Chemistry and Physics, 2022, 275, 125301.	2.0	28
140	Role of anions on structure and pseudocapacitive performance of metal double hydroxides decorated with nitrogen-doped graphene. Science China Materials, 2015, 58, 114-125.	3.5	27
141	A review on the 2D black phosphorus materials for energy applications. Inorganic Chemistry Communication, 2021, 124, 108242.	1.8	27
142	Recent advances in BiOX-based photocatalysts to enhanced efficiency for energy and environment applications. Catalysis Reviews - Science and Engineering, 2024, 66, 119-173.	5.7	27
143	Neuro-intelligent mappings of hybrid hydro-nanofluid Al ₂ O ₃ -Cu-H ₂ O model in porous medium over rotating disk with viscous dissolution and Joule heating. International Journal of Hydrogen Energy, 2021, 46, 28298-28326.	3.8	26
144	Joint brightness control and data transmission for visible light communication systems based on white LEDs. , 2011, , .		25

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145	Synthesis of novel hollow microflowers (NHMF) of Nb ₃ O ₇ F, their optical and hydrogen storage properties. International Journal of Hydrogen Energy, 2014, 39, 13174-13179.	3.8	25
146	Wet Chemical Co-precipitation Synthesis of Nickel Ferrite Nanoparticles and Their Characterization. Journal of Inorganic and Organometallic Polymers and Materials, 2017, 27, 1430-1438.	1.9	25
147	Joint Rate-Brightness Control using Variable Rate MPPM for LED Based Visible Light Communication Systems. IEEE Transactions on Wireless Communications, 2013, 12, 4604-4611.	6.1	24
148	Photocorrosion inhibition of sulphide-based nanomaterials for energy production through photocatalytic water splitting. International Journal of Energy Research, 2022, 46, 634-666.	2.2	24
149	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. Optik, 2022, 252, 168532.	1.4	24
150	Novel Zn ₂ V ₂ O ₇ hierarchical nanostructures: Optical and hydrogen storage properties. International Journal of Hydrogen Energy, 2015, 40, 9359-9364.	3.8	23
151	Photocatalytic nanomaterials for degradation of organic pollutants and heavy metals. , 2020, , 119-138.		23
152	Highly efficient and visible light-driven nickel-doped vanadium oxide photocatalyst for degradation of Rhodamine B Dye. Applied Nanoscience (Switzerland), 2020, 10, 2365-2374.	1.6	23
153	Fabrication of TiO ₂ nanosheets via Ti ³⁺ doping and Ag ₃ PO ₄ QD sensitization for highly efficient visible-light photocatalysis. RSC Advances, 2016, 6, 63984-63990.	1.7	22
154	Dynamic Economic Dispatch and Transient Control of Distributed Generators in a Microgrid. IEEE Systems Journal, 2019, 13, 802-812.	2.9	22
155	Green synthesis of nanoparticles using Calendula officinalis extract from silver sulfate and their antibacterial effects on Pectobacterium caratovorum. Inorganic Chemistry Communication, 2021, 125, 108439.	1.8	22
156	Role of CTF in Bi ₂ WO ₆ /ZnO photocatalysts for effective degradation and hydrogen energy evolution. International Journal of Hydrogen Energy, 2021, 46, 30606-30614.	3.8	22
157	Electronic and optical properties of nitrogen and sulfur doped strontium titanate as efficient photocatalyst for water splitting: A DFT study. International Journal of Hydrogen Energy, 2022, 47, 1605-1612.	3.8	22
158	Visible light communication using wavelength division multiplexing for smart spaces. , 2012, , .		21
159	Photocatalytic performance of hybrid WO ₃ /TiO ₂ nanomaterials for the degradation of methylene blue under visible light irradiation. International Journal of Environmental Analytical Chemistry, 0, , 1-13.	1.8	21
160	The construction of a highly efficient p-n heterojunction Bi ₂ O ₃ /BiVO ₄ for hydrogen evolution through solar water splitting. International Journal of Hydrogen Energy, 2022, 47, 4594-4600.	3.8	21
161	First-principles calculations to investigate variation in the bandgap of NaSrF ₃ Fluoro-Perovskite with external static isotropic pressure and its Impact on optical properties. Computational and Theoretical Chemistry, 2022, 1214, 113766.	1.1	21
162	Surfactants for Enhanced Oil Recovery Applications. , 2020, , .		20

#	ARTICLE	IF	CITATIONS
163	Novel Nano-Flowers of Nb ₂ O ₅ by Template Free Synthesis and Enhanced Photocatalytic Response Under Visible Light. <i>Science of Advanced Materials</i> , 2015, 7, 1298-1303.	0.1	20
164	Investigation of Structural, Electronics, Optical, Mechanical and Thermodynamic Properties of YRu ₂ P ₂ Compound for Superconducting Application. <i>Journal of Superconductivity and Novel Magnetism</i> , 2021, 34, 3089-3097.	0.8	20
165	Wide Range Photodetector Based on Catalyst Free Grown Indium Selenide Microwires. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9550-9556.	4.0	19
166	Nanomaterials for photocatalysis. , 2020, , 65-76.		19
167	Fine-tuning internal electric field of BiOBr for suppressed charge recombination. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104766.	3.3	19
168	Iron and Manganese Codoped Cobalt Tungstates Co _{1-x} Fe _x Mn _y WO ₄ as Efficient Photoelectrocatalysts for Oxygen Evolution Reaction. <i>ACS Omega</i> , 2021, 6, 7334-7341.	1.6	19
169	Novel graphene-based transparent electrodes for perovskite solar cells. <i>International Journal of Energy Research</i> , 2018, 42, 4866-4874.	2.2	18
170	Fourth-Generation Antibiotic Gatifloxacin Encapsulated by Microemulsions: Structural and Probing Dynamics. <i>Langmuir</i> , 2018, 34, 10603-10612.	1.6	18
171	Biosorption of lead by cotton shells powder: Characterization and equilibrium modeling study. <i>International Journal of Phytoremediation</i> , 2019, 21, 138-144.	1.7	18
172	Semiconductor based nanomaterials for harvesting green hydrogen energy under solar light irradiation. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-17.	1.8	18
173	Gallium vacancies role in hydrogen storage of single-crystalline GaN hexagonal micro-sheets. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 4731-4742.	3.8	18
174	Synthesis, characterization and antibacterial activity of NiO NPs against pathogen. <i>Inorganic Chemistry Communication</i> , 2020, 122, 108300.	1.8	18
175	Visible light responsive photocatalytic hydrogen evolution using MoS ₂ incorporated ZnO. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3925-3931.	1.6	18
176	Biomimetic brain-like nanostructures for solid polymer electrolytes with fast ion transport. <i>Science China Materials</i> , 2022, 65, 1476-1484.	3.5	18
177	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> , 2022, 102, 8503-8518.	1.8	17
178	Fluorine Dissolution-Induced Capacity Degradation for Fluorophosphate-Based Cathode Materials. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23787-23793.	4.0	17
179	Fabrication of direct Z-scheme MoO ₃ /MoS ₂ photocatalyst for synergistically enhanced H ₂ production. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 39822-39829.	3.8	17
180	Thermochemically evolved nanoplatelets of bismuth selenide with enhanced thermoelectric figure of merit. <i>AIP Advances</i> , 2014, 4, .	0.6	16

#	ARTICLE	IF	CITATIONS
181	A facile one-step fabrication of novel WO_3/Fe_2O_3 (WO_4) $\cdot 10.7H_2O$ porous microplates with remarkable photocatalytic activities. <i>CrystEngComm</i> , 2015, 17, 4809-4817.	1.3	16
182	Preparation of a bifunctional ultrathin nickel phosphide nanosheet electrocatalyst for full water splitting. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5294-5300.	2.5	16
183	Facile hydrothermal synthesis of highly efficient and visible light-driven Ni-doped V_2O_5 photocatalyst for degradation of Rhodamine B dye. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 12913-12925.	1.1	16
184	Utilization of Bi_2WO_6 -encapsulated polyaniline-based redox reactions for the efficient detoxification of organic pollutants. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 2037-2043.	1.6	16
185	A novel ternary composite aerogel for high-performance supercapacitor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 610, 125644.	2.3	16
186	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.	1.7	16
187	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.	3.8	16
188	CO ₂ foam for enhanced oil recovery (EOR) applications using low adsorption surfactant structure. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	15
189	All ambient environment-based perovskite film fabrication for photovoltaic applications. <i>International Journal of Energy Research</i> , 2019, 43, 806-813.	2.2	15
190	Hierarchical $WO_3@BiVO_4$ nanostructures for improved green energy production. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 1183-1190.	1.6	15
191	Interfacial coupling effect of Ag_2O nanorods over MoS_2 microflowers for improved photocatalytic activity. <i>Ceramics International</i> , 2020, 46, 6856-6859.	2.3	15
192	Fabrication of p-n heterojunction $Ag_2O@Ce_2O_3$ nanocomposites make enables to improve photocatalytic activity under visible light. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 199-206.	1.6	15
193	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.	1.3	15
194	First principal calculations to investigate structural, electronic, optical, and magnetic properties of Fe_3O_4 and Cd-doped Fe_2O_3 . <i>Computational Condensed Matter</i> , 2022, 30, e00629.	0.9	15
195	Elastic, electronic and optical properties of cotunnite TiO_2 from first principles calculations. <i>Physica B: Condensed Matter</i> , 2012, 407, 4495-4501.	1.3	14
196	Electronic, elastic, acoustic and optical properties of cubic TiO_2 : A DFT approach. <i>Physica B: Condensed Matter</i> , 2013, 420, 74-80.	1.3	14
197	Mixed solvent based surface modification of CuS nanostructures for an excellent photocatalytic application. <i>Inorganic Chemistry Communication</i> , 2020, 121, 108205.	1.8	14
198	Chromium incorporated copper vanadate nano-materials for hydrogen evolution by water splitting. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 1661-1671.	1.6	14

#	ARTICLE	IF	CITATIONS
199	Influence of van der waals heterostructures of 2D materials on catalytic performance of ZnO and its applications in energy: A review. International Journal of Hydrogen Energy, 2021, 46, 25413-25423.	3.8	14
200	Novel, facile and first time synthesis of zinc oxide nanoparticles using leaves extract of Citrus reticulata for photocatalytic and antibacterial activity. Optik, 2021, 243, 167495.	1.4	14
201	Facile Synthesis of CuS Nanostructures: Structural, Optical and Photocatalytic Properties. Science of Advanced Materials, 2014, 6, 2694-2701.	0.1	14
202	Cu ₂ O/TiO ₂ nanoporous thin-film heterojunctions: Fabrication and electrical characterization. Materials Science in Semiconductor Processing, 2014, 25, 181-185.	1.9	13
203	Development of Sol Gel Derived Nanocrystalline TiO ₂ Thin Films via Indigenous Spin Coating Method. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1-8.	1.9	13
204	Efficient biosensing through 1D silver nanostructured devices using plasmonic effect. Nanotechnology, 2018, 29, 385501.	1.3	13
205	Numerical Modeling for Engineering Analysis and Designing of Optimum Support Systems for Headrace Tunnel. Advances in Civil Engineering, 2018, 2018, 1-10.	0.4	13
206	The chemical precipitation synthesis of nanorose-shaped Bi ₄ O ₅ I ₂ with highly visible light photocatalytic performance. Materials Letters, 2019, 252, 106-109.	1.3	13
207	Fabrication of WO ₃ based nanocomposites for the excellent photocatalytic energy production under visible light irradiation. International Journal of Hydrogen Energy, 2021, 46, 39058-39066.	3.8	13
208	Implantation of various energy metallic ions on aluminium substrate using a table top laser driven ion source. Laser and Particle Beams, 2014, 32, 261-270.	0.4	12
209	Solid waste for energy storage material as electrode of supercapacitors. Materials Letters, 2016, 181, 191-195.	1.3	12
210	Interfacial Growth of Activated Carbon on WO ₃ Nanoplates for Enhanced Photocatalytic Activity by Surface Plasmon Resonance. Plasmonics, 2020, 15, 1205-1212.	1.8	12
211	Recent advances on photocatalytic nanomaterials for hydrogen energy evolution in sustainable environment. International Journal of Environmental Analytical Chemistry, 0, , 1-19.	1.8	12
212	Fabrication of novel perovskite oxide $Ba_{1-x}Mn_xO_3$ electrode for supercapacitors. International Journal of Energy Research, 2021, 45, 4145-4154.	2.2	12
213	Determination of structural, mechanical, thermal and magnetic properties of Cr based new quaternary Heusler alloys with GGA and GGA+U. Physica Scripta, 2021, 96, 035701.	1.2	12
214	Health risk assessment in different age-group due to nitrate, fluoride, nitrite and geo-chemical parameters in drinking water in Ahmadpur East, Punjab, Pakistan. Human and Ecological Risk Assessment (HERA), 2021, 27, 1747-1763.	1.7	12
215	The enhanced electrical and dielectric properties of cobalt-based spinel ferrites for high-frequency applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 22440-22449.	1.1	12
216	Synergistic effect of Cu _x /Mg _x and Zn _{1-x} O for enhanced photocatalytic degradation and antibacterial activity. Physica B: Condensed Matter, 2022, 624, 413396.	1.3	12

#	ARTICLE	IF	CITATIONS
217	ZnO THIN FILMS: RECENT DEVELOPMENT, FUTURE PERSPECTIVES AND APPLICATIONS FOR DYE SENSITIZED SOLAR CELL. <i>Surface Review and Letters</i> , 2018, 25, 1930001.	0.5	11
218	Optimized structure and electrochemical properties of sulfonated carbon nanotubes/Co-Ni bimetallic layered hydroxide composites for high-performance supercapacitors. <i>Ceramics International</i> , 2021, 47, 4648-4658.	2.3	11
219	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, 48, 11779-11785.	2.3	11
220	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.	0.6	10
221	Fabrication of novel hybrid composite La _{2-x} CoxCuO ₄ electrode for high performance supercapacitors. <i>International Journal of Energy Research</i> , 2019, 43, 2361-2368.	2.2	10
222	Bilayered microelectrodes based on electrochemically deposited MnO ₂ /polypyrrole towards fast charge transport kinetics for micro-supercapacitors. <i>RSC Advances</i> , 2020, 10, 18245-18251.	1.7	10
223	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.	1.3	10
224	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.	1.1	10
225	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.	1.2	10
226	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.	2.2	10
227	Optimal Brightness-Rate Control using VR-MPPM and its Spectral Analysis for VLC System. <i>IEEE Communications Letters</i> , 2012, 16, 1125-1128.	2.5	9
228	Nanotechnology: An Innovative Way for Wastewater Treatment and Purification. <i>Nanotechnology in the Life Sciences</i> , 2019, , 95-131.	0.4	9
229	Preparation and characterization of polyvinylidene fluoride/1-butyl-3-methylimidazolium bromide-based ionogel membranes for desalination applications. <i>International Journal of Environmental Science and Technology</i> , 2019, 16, 7081-7092.	1.8	9
230	Construction of visible light driven CuBi ₂ O ₄ / Bi ₂ WO ₆ solid solutions anchored with Bi ₁₂ O ₁₇ Cl _x Br ₂ ^{x-} nanoparticles for improved photocatalytic activity. <i>Ceramics International</i> , 2021, 47, 320-328.	2.3	9
231	Smooth growth, characterization and optical properties of Cu ₂ SnS ₃ thin film via spray pyrolysis method. <i>Physica B: Condensed Matter</i> , 2021, 602, 412498.	1.3	9
232	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.	1.6	9
233	Metal-catalyzed synthesis of ultralong tin dioxide nanobelts: Electrical and optical properties with oxygen vacancy-related orange emission. <i>Materials Science in Semiconductor Processing</i> , 2014, 26, 388-394.	1.9	8
234	Nitrogen-Doped Carbon Nanosheets Decorated With Mn ₂ O ₃ Nanoparticles for Excellent Oxygen Reduction Reaction. <i>Frontiers in Chemistry</i> , 2019, 7, 741.	1.8	8

#	ARTICLE	IF	CITATIONS
235	Surface Engineering of Carbon-Based Microelectrodes for High-Performance Microsupercapacitors. <i>Micromachines</i> , 2019, 10, 307.	1.4	8
236	Ni and Ce oxide-based hollow fibers as battery-like electrodes. <i>Journal of Alloys and Compounds</i> , 2020, 830, 154633.	2.8	8
237	Role of Nanocatalyst (Photocatalysts) for Waste Water Treatment. <i>Current Analytical Chemistry</i> , 2021, 17, 138-149.	0.6	8
238	Recent development in shape memory based perovskite materials for energy conversion and storage applications. <i>International Journal of Energy Research</i> , 2021, 45, 20545-20558.	2.2	8
239	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, 39778-39785.	3.8	8
240	Optimal data transmission and battery charging policies for solar powered sensor networks using Markov decision process. , 2013, , .		7
241	Joint error-brightness control coding for LED based VLC link. , 2014, , .		7
242	VLS and VS effect on ferromagnetic behaviour of SnO ₂ nanobelts. <i>Journal of Experimental Nanoscience</i> , 2014, 9, 17-26.	1.3	7
243	Quality control and beam test of GEM detectors for future upgrades of the CMS muon high rate region at the LHC. <i>Journal of Instrumentation</i> , 2015, 10, C03039-C03039.	0.5	7
244	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.	1.6	7
245	Synthesis of BiVO ₄ /NiFe ₂ O ₄ composite for photocatalytic degradation of methylene blue. <i>Applied Nanoscience (Switzerland)</i> , 2021, 11, 2793.	1.6	7
246	Synthesis and characterization of copper-based spinel ferrites for high frequency applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 547, 168778.	1.0	7
247	Optimization of 1D Silver Grating Devices for Extraordinary Optical Transmission. <i>Plasmonics</i> , 2019, 14, 1099-1104.	1.8	6
248	Synergistic Effect Between WO ₃ /Activated Carbon and BiVO ₄ Nanoparticles for Improved Photocatalytic Hydrogen Evolution. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 869-875.	1.9	6
249	Study of plasmonic bandgap by optimization of geometrical parameters of metallic grating devices. <i>Solid State Communications</i> , 2021, 327, 114212.	0.9	6
250	Numerical and Analytical Modeling of FRP-Reinforced Concrete Columns Subjected to Compression Loading. <i>Australian Journal of Structural Engineering</i> , 2021, 22, 96-109.	0.4	6
251	High-yield synthesis of silver nanowires for transparent conducting PET films. <i>Beilstein Journal of Nanotechnology</i> , 2021, 12, 624-632.	1.5	6
252	Capacitive properties of novel Sb-doped Co ₃ O ₄ electrode material synthesized by hydrothermal method. <i>Ceramics International</i> , 2021, 47, 32210-32217.	2.3	6

#	ARTICLE	IF	CITATIONS
253	Static isotropic pressure induced ultra-wide band gap response of NaCaF ₃ fluoro-perovskite and its repercussions on optical properties: ab initio calculation. <i>Molecular Simulation</i> , 2021, 47, 1549-1557.	0.9	6
254	Morphological, structural and hardness changes of human dental enamel irradiated with a Nd:YAG laser. <i>Laser Physics</i> , 2018, 28, 126004.	0.6	5
255	Synthesis methods of nanostructures. , 2020, , 45-56.		5
256	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.	0.4	5
257	Role of Nano-Photocatalysts in Detoxification of Toxic Heavy Metals. <i>Current Analytical Chemistry</i> , 2021, 17, 126-137.	0.6	5
258	Novel Cr and Sn co-doped Co ₃ O ₄ polygon-based electrode material for supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 11467-11477.	1.1	5
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, 20448-20462.	2.2	5
260	The COVID-19 Outbreak: Other Parallel Problems. <i>SSRN Electronic Journal</i> , 0, , .	0.4	5
261	Plant-Mediated Green Synthesis of Zinc Oxide Nanoparticles Using Peel Extract of <i>Citrus reticulata</i> for Boosting Seed Germination of <i>Brassica nigra</i> Seeds. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 3573-3579.	0.9	5
262	A facile and simple microwave-assisted synthesis method for mesoporous ultrathin iron sulfide nanosheets as an efficient bifunctional electrocatalyst for overall water splitting. <i>Dalton Transactions</i> , 2022, 51, 6285-6292.	1.6	5
263	Novel sol-gel synthesis of Mo-doped ZnO-NPs for photo-catalytic waste water treatment using the RhB dye as a model pollutant. <i>Environment, Development and Sustainability</i> , 2023, 25, 11583-11598.	2.7	5
264	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, .	1.1	4
265	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.	0.8	4
266	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.	2.2	4
267	Synthesis and characterization of Bi-doped antimony sulphide thin films for solar absorption applications. <i>Physica B: Condensed Matter</i> , 2021, 619, 413196.	1.3	4
268	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.	2.3	4
269	Integrating ZnO/CdS Schottky junction for remarkably enhanced photocatalytic performance under solar spectrum. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 1613-1626.	1.6	4
270	Hydrogen Evolution: CdS Nanoparticle-Decorated Cd Nanosheets for Efficient Visible Light-Driven Photocatalytic Hydrogen Evolution (<i>Adv. Energy Mater.</i> 3/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	10.2	3

#	ARTICLE	IF	CITATIONS
271	Compressed Sensing based adaptive video coding for resource constrained devices. , 2016, , .		3
272	TiO ₂ -Graphene-Based Composites: Synthesis, Characterization, and Application in Photocatalysis of Organic Pollutants. , 2018, , 95-122.		3
273	Self-Triggered Control Plane for Cognitive Radio Networks. , 2018, , .		3
274	History and fundamentals of nanoscience and nanotechnology. , 2020, , 1-25.		3
275	Tailorable and Rationally Designed MoS ₂ Based Heterostructure Photocatalyst for Efficient Photocatalytic Degradation of Phenol Under the Visible Light. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 3965-3972.	1.9	3
276	Construction of visible-light-driven ternary ZnO-MoS ₂ -BiVO ₄ composites for enhanced photocatalytic activity. Applied Nanoscience (Switzerland), 2021, 11, 241-247.	1.6	3
277	Construction of Bi ₂ WO ₆ /MoSe ₂ /Bi ₂ O ₃ Br ₂ ·x heterostructures for the production of hydrogen energy and degradation of methylene blue. Applied Nanoscience (Switzerland), 2021, 11, 951-959.	1.6	3
278	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. Optik, 2021, 227, 166044.	1.4	3
279	Insighting role of activated carbon based nanostructures for complete photocatalytic degradation of hazardous pharmaceutical compound. Applied Nanoscience (Switzerland), 2021, 11, 1117-1126.	1.6	3
280	Insight role of TiO ₂ to improve the photocatalytic performance of WO ₃ nanostructures for the efficient degradation of ciprofloxacin. Zeitschrift Fur Physikalische Chemie, 2022, 236, 169-180.	1.4	3
281	Characterization of ion irradiated silicon surfaces ablated by laser-induced breakdown spectroscopy. Chinese Physics B, 2018, 27, 087401.	0.7	2
282	Irradiation effects of Cu ions on the electrical and morphological properties of polypropylene. Polymers and Polymer Composites, 2019, 27, 103-107.	1.0	2
283	Commissioning and evaluation of a radiochromic EBT3 film dosimetry system. Journal of Radiotherapy in Practice, 2019, 18, 55-62.	0.2	2
284	Recent advances in the development of photocatalysis and future perspectives. , 2020, , 221-223.		2
285	Nanostructure materials and their classification by dimensionality. , 2020, , 27-44.		2
286	CO ₂ -Philic Surfactants Structural Morphology Prerequisites for CO ₂ Philicity for Foam Durability for EOR Applications. , 0, , .		2
287	Social and Environmental Impact of COVID-19: Positive and Negative Aspects. SSRN Electronic Journal, 0, , .	0.4	2
288	Optimal flow splitting for multi-path multi-interface wireless data streaming networks. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
289	Acoustic sensor network relative self-calibration using joint TDOA and DOA with unknown beacon positions. , 2014, , .		1
290	Energetic metallic ion implantation in polymers via cost-effective laser-driven ion source. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	1
291	Selection of gamma analysis acceptance criteria in IMRT QA using Gafchromic EBT3 film dosimetry. Journal of Radiotherapy in Practice, 2019, 18, 127-131.	0.2	1
292	Role of Photocatalysts in Air Purification. , 2022, , 597-603.		1
293	Carbonaceous nanomaterials as photocatalysts. , 2020, , 97-117.		1
294	Photocatalytic nanomaterials for the removal of pharmaceuticals. , 2020, , 191-202.		1
295	Nuclear Desalination. Advances in Science, Technology and Innovation, 2021, , 121-135.	0.2	1
296	Biological Methods for Carbon Dioxide Conversion and Utilization. Advances in Science, Technology and Innovation, 2021, , 165-177.	0.2	1
297	Photocatalysts for Hydrogen Production. , 2021, , .		1
298	Novel Smart Photocatalysis for Energy Production and Environment Applications. , 2020, , 635-635.		1
299	Role of Photocatalysis in Green Energy Production. , 2022, , 590-596.		1
300	Applications of Polymeric Materials in Biomedical Engineering. Advances in Science, Technology and Innovation, 2021, , 133-142.	0.2	1
301	A half-duplex rateless coded protocol for a fading multi-way relay channel. , 2012, , .		0
302	Nanomaterials for Photocatalytic Energy Conversion. Materials Horizons, 2021, , 43-84.	0.3	0
303	Mechanistic investigation of Mg ²⁺ -ion-induced ZnO nanorods for enhanced photocatalytic performance. Applied Nanoscience (Switzerland), 2021, 11, 1917-1927.	1.6	0
304	Tunable emission in ferromagnetic CdS:Dy ³⁺ nanostructures for optoelectronic and spintronic applications. Physica B: Condensed Matter, 2021, 613, 412894.	1.3	0
305	Structural phase transformation, insulator to semiconductor transition by Be/Sr doping and impact on optical properties of KMgF ₃ fluoro-perovskite. Molecular Physics, 2021, 119, .	0.8	0
306	Enhancement in Physical Properties of Silver-Doped Fe-Ni Invar Nano-alloy Using Chemical Reduction Method. Journal of Superconductivity and Novel Magnetism, 2021, 34, 3237-3242.	0.8	0

#	ARTICLE	IF	CITATIONS
307	Application of Membrane in Reaction Engineering for Green Synthesis. Advances in Science, Technology and Innovation, 2021, , 163-171.	0.2	0
308	CO ₂ -Philic Surfactants: Structure Performance Relationship. Petroleum Engineering, 2021, , 315-327.	0.6	0
309	Photocatalyst for Wastewater Treatment. Current Analytical Chemistry, 2020, 17, 3-3.	0.6	0
310	Advances in Photocatalytic Materials for Waste Water Treatment Applications. , 2022, , 759-767.		0
311	Role of Nanomaterials in the Detoxification of Harmful Dyes. , 2022, , 373-386.		0
312	Carbon Dioxide Conversion Methods. Advances in Science, Technology and Innovation, 2022, , 221-228.	0.2	0
313	Withdrawal Notice: Nano Sensors: Designing and Fabrication, Applications for Flexible Devices and Future Perspectives. Current Nanoscience, 2020, 16, .	0.7	0