List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A review on green synthesis of silver nanoparticles and their applications. Artificial Cells, Nanomedicine and Biotechnology, 2017, 45, 1272-1291.	2.8	542
2	Nanostructured-based WO3 photocatalysts: recent development, activity enhancement, perspectives and applications for wastewater treatment. International Journal of Environmental Science and Technology, 2017, 14, 2519-2542.	3.5	138
3	Enhanced photocatalytic activity of Al and Fe co-doped ZnO nanorods for methylene blue degradation. Ceramics International, 2019, 45, 21430-21435.	4.8	122
4	Role of MoSe2 on nanostructures WO3-CNT performance for photocatalytic hydrogen evolution. Ceramics International, 2018, 44, 6686-6690.	4.8	111
5	Role of europium on WO3 performance under visible-light for photocatalytic activity. Ceramics International, 2018, 44, 5705-5709.	4.8	101
6	Eco-friendly green and biosynthesis of copper oxide nanoparticles using Citrofortunella microcarpa leaves extract for efficient photocatalytic degradation of Rhodamin B dye form textile wastewater. Optik, 2020, 208, 164053.	2.9	97
7	Novel and facile synthesis of silver nanoparticles using Albizia procera leaf extract for dye degradation and antibacterial applications. Materials Science and Engineering C, 2019, 99, 1313-1324.	7.3	88
8	A Review on Novel Eco-Friendly Green Approach to Synthesis TiO2 Nanoparticles Using Different Extracts. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1552-1564.	3.7	85
9	A Review on Synthesis, Characterization and Applications of Copper Nanoparticles Using Green Method. Nano, 2017, 12, 1750043.	1.0	83
10	Plant-mediated green synthesis of zinc oxide nanoparticles from <i>Syzygium Cumini</i> for seed germination and wastewater purification. International Journal of Environmental Analytical Chemistry, 2022, 102, 23-38.	3.3	83
11	WO3 Nanostructures-Based Photocatalyst Approach Towards Degradation of RhB Dye. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1107-1113.	3.7	79
12	Fabrication of heterogeneous photocatalysts for insight role of carbon nanofibre in hierarchical WO3/ MoSe2 composite for enhanced photocatalytic hydrogen generation. Ceramics International, 2019, 45, 5547-5552.	4.8	75
13	Green synthesis of TiO ₂ nanoparticles using lemon peel extract: their optical and photocatalytic properties. International Journal of Environmental Analytical Chemistry, 2022, 102, 434-442.	3.3	70
14	Photocatalysis and perovskite oxide-based materials: a remedy for a clean and sustainable future. RSC Advances, 2022, 12, 7009-7039.	3.6	63
15	Role of fullerene to improve the WO ₃ performance for photocatalytic applications and hydrogen evolution. International Journal of Energy Research, 2018, 42, 4783-4789.	4.5	62
16	Material and method selection for efficient solid oxide fuel cell anode: Recent advancements and reviews. International Journal of Energy Research, 2019, 43, 2423-2446.	4.5	62
17	Role of cerium-doping in CoFe2O4 electrodes for high performance supercapacitors. Journal of Energy Storage, 2020, 29, 101452.	8.1	58
18	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.	3.7	56

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19	Highly visible light responsive metal loaded N/TiO 2 nanoparticles for photocatalytic conversion of CO 2 into methane. Ceramics International, 2017, 43, 6771-6777.	4.8	51
20	An Optimal Au Grating Structure for Light Absorption in Amorphous Silicon Thin Film Solar Cell. Plasmonics, 2019, 14, 147-154.	3.4	44
21	Laser ablation synthesis of silver nanoparticles in water and dependence on laser nature. Optical and Quantum Electronics, 2019, 51, 1.	3.3	44
22	Evaluation of BaZr0.8X0.2 (X= Y, Gd, Sm) proton conducting electrolytes sintered at low temperature for IT-SOFC synthesized byAcost effective combustion method. Journal of Alloys and Compounds, 2020, 815, 152389.	5.5	43
23	Theoretical investigation of structural, magnetic and elastic properties of half Heusler LiCrZ (Z = P,) Tj ETQq1 1	0.784314 2.7	rgBŢ_/Overloo
24	Role of Nanotechnology in Photocatalysis. , 2022, , 578-589.		40
25	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.	3.7	39
26	Cogent synergic effect of TiS2/g-C3N4 composite with enhanced electrochemical performance for supercapacitor. Ceramics International, 2020, 46, 27601-27607.	4.8	39
27	Semiconductor nanomaterials for the detoxification of dyes in real wastewater under visible-light photocatalysis. International Journal of Environmental Analytical Chemistry, 2021, 101, 1735-1749.	3.3	37
28	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.	2.7	36
29	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.	2.9	35
30	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.	4.5	34
31	Activated carbon doped WO3 for photocatalytic degradation of rhodamine-B. Applied Nanoscience (Switzerland), 2020, 10, 869-877.	3.1	34
32	Photocatalytic degradation and hydrogen evolution using bismuth tungstate based nanocomposites under visible light irradiation. International Journal of Hydrogen Energy, 2020, 45, 22833-22847.	7.1	32
33	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.	5.3	32
34	Effect of magnesium doping on band gap and optical properties of SrZrO3 perovskite: A first-principles study. Optik, 2019, 191, 132-138.	2.9	31
35	First-principles computation of magnesium doped CaZrO3 perovskite: A study of phase transformation, bandgap engineering and optical response for optoelectronic applications. Solid State Communications, 2020, 313, 113907.	1.9	29
36	Electrochemical evaluation of mixed ionic electronic perovskite cathode LaNi1-xCoxO3-δ for IT-SOFC synthesized by high temperature decomposition. International Journal of Hydrogen Energy, 2021, 46, 10448-10456.	7.1	29

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37	Investigation of Photocatalytic and Seed Germination Effects of TiO2 Nanoparticles Synthesized by Melia azedarach L. Leaf Extract. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 2133-2144.	3.7	28
38	A review of the interfacial properties of 2-D materials for energy storage and sensor applications. Chinese Journal of Physics, 2020, 66, 246-257.	3.9	28
39	First-principles investigation of structural, electronic, optical and thermal properties of Zinc doped SrTiO3. Optik, 2020, 201, 163481.	2.9	26
40	Effect of external pressure on the structural stability, electronic structure, band gap engineering and optical properties of LiNbO3: An ab-initio calculation. Materials Today Communications, 2020, 23, 100919.	1.9	25
41	Photocatalytic nanomaterials for degradation of organic pollutants and heavy metals. , 2020, , 119-138.		23
42	Highly efficient and visible light–driven nickel–doped vanadium oxide photocatalyst for degradation of Rhodamine B Dye. Applied Nanoscience (Switzerland), 2020, 10, 2365-2374.	3.1	23
43	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.	3.3	21
44	Nanomaterials for photocatalysis. , 2020, , 65-76.		19
45	Novel graphene-based transparent electrodes for perovskite solar cells. International Journal of Energy Research, 2018, 42, 4866-4874.	4.5	18
46	Gallium vacancies role in hydrogen storage of single-crystalline GaN hexagonal micro-sheets. International Journal of Hydrogen Energy, 2020, 45, 4731-4742.	7.1	18
47	Synthesis, characterization and antibacterial activity of NiO NPs against pathogen. Inorganic Chemistry Communication, 2020, 122, 108300.	3.9	18
48	Visible light responsive photocatalytic hydrogen evolution using MoS2 incorporated ZnO. Applied Nanoscience (Switzerland), 2020, 10, 3925-3931.	3.1	18
49	Structural, electronic, magnetic and thermoelectric properties of full heusler alloys Co2YZ (Z = S,) Tj ETQq1 1 0.	784314 rg 2.7	BT /Overlock
50	Antibacterial Behavior of Laser-Ablated Copper Nanoparticles. Acta Metallurgica Sinica (English) Tj ETQq0 0 0 rg	BT /Oyerlo 2.9	ck 10 Tf 50 22
51	Dependence of the structural optical and thermo-physical properties of gold nano-particles synthesized by laser ablation method on the nature of laser. Optik, 2017, 134, 140-148.	2.9	17
52	Surface-Enhanced Raman Scattering (SERS) on 1D Nano-gratings. Plasmonics, 2020, 15, 1053-1059.	3.4	17
53	Fabrication of direct Z-scheme MoO3/N–MoS2 photocatalyst for synergistically enhanced H2 production. International Journal of Hydrogen Energy, 2021, 46, 39822-39829.	7.1	17
54	Laser nature dependence on enhancement of optical and thermal properties of copper oxide nanofluids. Applied Surface Science, 2019, 483, 187-193.	6.1	16

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55	Facile hydrothermal synthesis of highly efficient and visible light-driven Ni-doped V2O5 photocatalyst for degradation of Rhodamine B dye. Journal of Materials Science: Materials in Electronics, 2020, 31, 12913-12925.	2.2	16
56	Interfacial coupling effect of Ag2O nanorods over MoS2 microflowers for improved photocatalytic activity. Ceramics International, 2020, 46, 6856-6859.	4.8	15
57	Study the effect of magnesium doping concentration on structural and optoelectronic response of NaCa1-xMgxF3 fluoro-perovskite: First-principles computation. Optik, 2020, 218, 164990.	2.9	15
58	Effect of anomalous behavior of Be-doping on structural stability, bandgap and optical properties in comparison with Mg-doped BaZrO3 perovskite: insights from DFT calculations. Optical and Quantum Electronics, 2020, 52, 1.	3.3	15
59	Evaluation of densification effects on the properties of 8Âmol % yttria stabilized zirconia electrolyte synthesized by cost effective coprecipitation route. Ceramics International, 2021, 47, 2857-2863.	4.8	15
60	Structural stability of SrZrO ₃ perovskite and improvement in electronic and optical properties by Ca and Ba doping for optoelectronic applications: a DFT approach. Philosophical Magazine, 2019, 99, 3133-3145.	1.6	14
61	Mixed solvent based surface modification of CuS nanostructures for an excellent photocatalytic application. Inorganic Chemistry Communication, 2020, 121, 108205.	3.9	14
62	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.	2.9	14
63	NiO and Ag–Cd co-doped NiO nanoparticles: study of photocatalytic degradation of rhodamine B dye for wastewater treatment. International Journal of Environmental Science and Technology, 2023, 20, 2021-2036.	3.5	14
64	Synergistic Effect of Functionalized Nanokaolin Decorated MWCNTs on the Performance of Cellulose Acetate (CA) Membranes Spectacular. Nanomaterials, 2016, 6, 79.	4.1	12
65	Fabrication of novel perovskite oxide <scp> Ba _x Mn _{1â^x} O ₃ a _x Mn _{1â^x} O ₃ </scp>	4.5	12
66	Influence of Er doping on the structural, optical and luminescence properties of pulsed laser deposited Er: BaZrO3 thin films. Ceramics International, 2017, 43, 12162-12166.	4.8	11
67	Fabrication of novel hybrid composite La2-xCoxCuO4electrode for high performance supercapacitors. International Journal of Energy Research, 2019, 43, 2361-2368.	4.5	10
68	Electrochemical study of Mo-doped Co3O4 nanostructures synthesized by sol–gel method. Journal of Materials Science: Materials in Electronics, 2021, 32, 3512-3521.	2.2	10
69	Nanotechnology: An Innovative Way for Wastewater Treatment and Purification. Nanotechnology in the Life Sciences, 2019, , 95-131.	0.6	9
70	Cubic to pseudo-cubic tetragonal phase transformation with lithium and beryllium doping in CaTiO3 and its impact on electronic and optical properties: a DFT approach. Bulletin of Materials Science, 2020, 43, 1.	1.7	9
71	First principle computation of half metallicity and mechanical properties of a new series of half Heusler alloys KMnZ (Z = B, Si, Ge, As) for spintronics. Indian Journal of Physics, 2022, 96, 115-126.	1.8	9
72	Hydrothermal synthesis of an efficient and visible light responsive pure and strontium doped zinc oxide nano-hexagonal photocatalysts for photodegradation of Rhodamine B dye. Applied Nanoscience (Switzerland), 2021, 11, 1045-1056.	3.1	9

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73	Electrochemical Investigations of BaCe0.7-xSmxZr0.2Y0.1O3- $\hat{\Gamma}$ Sintered at a Low Sintering Temperature as a Perovskite Electrolyte for IT-SOFCs. Sustainability, 2021, 13, 12595.	3.2	9
74	Idiosyncratic cellulose acetate nanocomposite membranes: synthesis and performance control study for desalination. Environmental Technology (United Kingdom), 2021, 42, 1336-1352.	2.2	8
75	Evaluation of BaCo ₀ . ₄ Fe ₀ . ₄ Zr _{0.2â^x} Ni _x O <sub perovskite cathode using nickel as a sintering aid for IT-SOFC. RSC Advances, 2021, 11, 14475-14483.</sub 	ວ>3 ສີ.ີ ໔ <td>ıp>8</td>	ıp>8
76	Surface plasmon based 1D-grating device for efficient sensing using noble metals. Optical and Quantum Electronics, 2020, 52, 1.	3.3	7
77	Influence of Low Sintering Temperature on BaCe0.2Zr0.6Y0.2O3â^î´IT-SOFC Perovskite Electrolyte Synthesized by Co-Precipitation Method. Materials, 2022, 15, 3585.	2.9	7
78	Structural and Magnetic Behavior of MoS2 on Doping of Transition Metals: a DFT Study. Journal of Superconductivity and Novel Magnetism, 2021, 34, 3441-3453.	1.8	6
79	Synthesis methods of nanostructures. , 2020, , 45-56.		5
80	Role of Nano-Photocatalysts in Detoxification of Toxic Heavy Metals. Current Analytical Chemistry, 2021, 17, 126-137.	1.2	5
81	Novel Cr and Sn co-doped Co3O4 polygon-based electrode material for supercapacitor application. Journal of Materials Science: Materials in Electronics, 2021, 32, 11467-11477.	2.2	5
82	Phase stability, band gap engineering and optical response of Li-, Be- and Mg-doped SrZrO3 perovskite: Theoretical perspective with GGA-PBE. European Physical Journal Plus, 2021, 136, 1.	2.6	5
83	Plant-Mediated Green Synthesis of Zinc Oxide Nanoparticles Using Peel Extract of <i>Citrus reticulate</i> for Boosting Seed Germination of <i>Brassica nigra</i> Seeds. Journal of Nanoscience and Nanotechnology, 2021, 21, 3573-3579.	0.9	5
84	Removal of Organic Colorants Using Nano Copper Antimony Oxychloride Synthesized by Non-solvated System. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 893-900.	3.7	4
85	Nanomaterials for Photocatalytic Applications. , 2019, , .		3
86	History and fundamentals of nanoscience and nanotechnology. , 2020, , 1-25.		3
87	Stimulated band structure by external isotropic static pressure and its impact on optoelectronic properties of PbZrO3: An ab-initio calculation. Optik, 2021, 241, 167024.	2.9	3
88	Influence of Sintering Temperature on the Structural, Morphological, and Electrochemical Properties of NiO-YSZ Anode Synthesized by the Autocombustion Route. Metals, 2022, 12, 219.	2.3	3
89	Spectroscopic and Structural Dynamics of MoS ₂ Thin Films. Journal of Nano Research, 2019, 58, 74-79.	0.8	2
90	Commissioning and evaluation of a radiochromic EBT3 film dosimetry system. Journal of Radiotherapy in Practice, 2019, 18, 55-62.	0.5	2

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91	Hydrogen Production Through Water Splitting Using Nanomaterials Under Solar Energy. , 2020, , 132-135.		2
92	Photonic and optoelectronic properties of layered semiconductors. Applied Nanoscience (Switzerland), 2020, 10, 3933-3938.	3.1	2
93	Recent advances in the development of photocatalysis and future perspectives. , 2020, , 221-223.		2
94	Nanostructure materials and their classification by dimensionality. , 2020, , 27-44.		2
95	Investigations on synergistic and antioxidant actions of medicinal plant based biosynthesis of Zinc Oxide Nanoparticles against E.coli and K. pneumonia bacteria. Combinatorial Chemistry and High Throughput Screening, 2021, 24, .	1.1	2
96	Energetic metallic ion implantation in polymers via cost-effective laser-driven ion source. Applied Physics B: Lasers and Optics, 2017, 123, 1.	2.2	1
97	Selection of gamma analysis acceptance criteria in IMRT QA using Gafchromic EBT3 film dosimetry. Journal of Radiotherapy in Practice, 2019, 18, 127-131.	0.5	1
98	Carbonaceous nanomaterials as photocatalysts. , 2020, , 97-117.		1
99	Photocatalytic nanomaterials for the removal of pharmaceuticals. , 2020, , 191-202.		1
100	Mechanistic investigation of Mg2+-ion-induced ZnO nanorods for enhanced photocatalytic performance. Applied Nanoscience (Switzerland), 2021, 11, 1917-1927.	3.1	0
101	Facile and Novel Synthesis of Spiky Gold Nanoparticles as an Efficient Antimicrobial Agent against Pseudomonas Aeruginosa. Combinatorial Chemistry and High Throughput Screening, 2021, 24, .	1.1	0
102	Role of Nanomaterials in the Detoxification of Harmful Dyes. , 2022, , 373-386.		0