

Bonamali Pal

List of Publications by Year in descending order

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140
papers

3,440
citations

172457

29
h-index

175258

52
g-index

140
all docs

140
docs citations

140
times ranked

4484
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced photocatalytic activity of highly porous ZnO thin films prepared by sol-gel process. <i>Materials Chemistry and Physics</i> , 2002, 76, 82-87.	4.0	244
2	Photocatalytic activity of transition-metal-loaded titanium(IV) oxide powders suspended in aqueous solutions: Correlation with electron-hole recombination kinetics. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 267-273.	2.8	192
3	Preparation and characterization of TiO ₂ /Fe ₂ O ₃ binary mixed oxides and its photocatalytic properties. <i>Materials Chemistry and Physics</i> , 1999, 59, 254-261.	4.0	190
4	The preparation, surface structure, zeta potential, surface charge density and photocatalytic activity of TiO ₂ nanostructures of different shapes. <i>Applied Surface Science</i> , 2013, 280, 366-372.	6.1	114
5	Preparation of iron oxide thin film by metal organic deposition from Fe(III)-acetylacetonate: a study of photocatalytic properties. <i>Thin Solid Films</i> , 2000, 379, 83-88.	1.8	111
6	Preparation of Novel Silica-Cadmium Sulfide Composite Nanoparticles Having Adjustable Void Space by Size-Selective Photoetching. <i>Journal of the American Chemical Society</i> , 2003, 125, 316-317.	13.7	94
7	Photocatalytic degradation of o-cresol sensitized by iron-titania binary photocatalysts. <i>Journal of Molecular Catalysis A</i> , 2001, 169, 147-155.	4.8	91
8	Size and shape dependent attachments of Au nanostructures to TiO ₂ for optimum reactivity of Au-TiO ₂ photocatalysis. <i>Journal of Molecular Catalysis A</i> , 2012, 355, 39-43.	4.8	87
9	A C ₃ N ₄ surface passivated highly photoactive Au-TiO ₂ tubular nanostructure for the efficient H ₂ production from water under sunlight irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 213, 9-17.	20.2	77
10	Photocatalytic syntheses of azoxybenzene by visible light irradiation of silica-coated cadmium sulfide nanocomposites. <i>Chemical Communications</i> , 2007, , 483.	4.1	68
11	A Cu ⁺¹ /Cu ⁰ -TiO ₂ mesoporous nanocomposite exhibits improved H ₂ production from H ₂ O under direct solar irradiation. <i>Journal of Catalysis</i> , 2017, 346, 1-9.	6.2	66
12	Visible and direct sunlight induced H ₂ production from water by plasmonic Ag-TiO ₂ nanorods hybrid interface. <i>Solar Energy Materials and Solar Cells</i> , 2017, 160, 463-469.	6.2	66
13	Photocatalytic Organic Syntheses: Selective Cyclization of Amino Acids in Aqueous Suspensions. <i>Catalysis Surveys From Asia</i> , 2003, 7, 165-176.	2.6	62
14	Photodegradation of polyaromatic hydrocarbons over thin film of TiO ₂ nanoparticles; a study of intermediate photoproducts. <i>Journal of Molecular Catalysis A</i> , 2000, 160, 453-460.	4.8	58
15	Improved degradation of methyl orange dye using bio-co-catalyst Se nanoparticles impregnated ZnS photocatalyst under UV irradiation. <i>Chemical Engineering Journal</i> , 2016, 306, 1041-1048.	12.7	58
16	A review on CaTiO ₃ photocatalyst: Activity enhancement methods and photocatalytic applications. <i>Powder Technology</i> , 2021, 388, 274-304.	4.2	52
17	Superior adsorption and photodegradation of eriochrome black-T dye by Fe ³⁺ and Pt ⁴⁺ impregnated TiO ₂ nanostructures of different shapes. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 33, 178-184.	5.8	51
18	Size and Structure-Dependent Photocatalytic Activity of Jingle-Bell-Shaped Silica-Coated Cadmium Sulfide Nanoparticles for Methanol Dehydrogenation. <i>Journal of Physical Chemistry B</i> , 2004, 108, 18670-18674.	2.6	49

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19	Photocatalytic redox-combined synthesis of γ -pipecolic acid from γ -lysine by suspended titania particles: effect of noble metal loading on the selectivity and optical purity of the product. <i>Journal of Catalysis</i> , 2003, 217, 152-152.	6.2	45
20	Plasmonic coinage metal-TiO ₂ hybrid nanocatalysts for highly efficient photocatalytic oxidation under sunlight irradiation. <i>New Journal of Chemistry</i> , 2015, 39, 5966-5976.	2.8	45
21	Study of excited charge carrier's lifetime for the observed photoluminescence and photocatalytic activity of CdS nanostructures of different shapes. <i>Journal of Molecular Catalysis A</i> , 2013, 371, 77-85.	4.8	42
22	Highly dispersed Au, Ag and Cu nanoparticles in mesoporous SBA-15 for highly selective catalytic reduction of nitroaromatics. <i>RSC Advances</i> , 2015, 5, 184-190.	3.6	42
23	Cu nanostructures of various shapes and sizes as superior catalysts for nitro-aromatic reduction and co-catalyst for Cu/TiO ₂ photocatalysis. <i>Applied Catalysis A: General</i> , 2015, 491, 28-36.	4.3	38
24	Photodeposition of Ag and Cu binary co-catalyst onto TiO ₂ for improved optical and photocatalytic degradation properties. <i>Advanced Powder Technology</i> , 2018, 29, 2119-2128.	4.1	36
25	Highly enhanced photocatalytic activity of Au nanorod-CdS nanorod heterocomposites. <i>Journal of Molecular Catalysis A</i> , 2013, 378, 246-254.	4.8	35
26	Highly photoactive Au-TiO ₂ nanowires for improved photo-degradation of propiconazole fungicide under UV/sunlight irradiation. <i>Solar Energy</i> , 2017, 144, 612-618.	6.1	32
27	Influence of coinage and platinum group metal co-catalysis for the photocatalytic reduction of m-dinitrobenzene by P25 and rutile TiO ₂ . <i>Journal of Molecular Catalysis A</i> , 2015, 397, 99-105.	4.8	31
28	Priority PAHs in orthodox black tea during manufacturing process. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 6291-6294.	2.7	30
29	Plasmonic stimulated photocatalytic/electrochemical hydrogen evolution from water by (001) faceted and bimetallic loaded titania nanosheets under sunlight irradiation. <i>Journal of Cleaner Production</i> , 2018, 175, 394-401.	9.3	30
30	Photodeposition time dependant growth, size and photoactivity of Ag and Cu deposited TiO ₂ nanocatalyst under solar irradiation. <i>Solar Energy</i> , 2019, 194, 618-627.	6.1	30
31	Core-shell structure of metal loaded CdS-SiO ₂ hybrid nanocomposites for complete photomineralization of methyl orange by visible light. <i>Journal of Molecular Catalysis A</i> , 2014, 391, 158-167.	4.8	28
32	Core-shell morphology of Au-TiO ₂ @graphene oxide nanocomposite exhibiting enhanced hydrogen production from water. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 37, 288-294.	5.8	28
33	Influence of photodeposition time and loading amount of Ag co-catalyst on growth, distribution and photocatalytic properties of Ag@TiO ₂ nanocatalysts. <i>Optical Materials</i> , 2020, 106, 109975.	3.6	27
34	Tuning the optical and photocatalytic properties of anisotropic ZnS nanostructures for the selective reduction of nitroaromatics. <i>Chemical Engineering Journal</i> , 2015, 263, 200-208.	12.7	26
35	Synthesis of bimetallic Au-Ag alloyed mesocomposites and their catalytic activity for the reduction of nitroaromatics. <i>Applied Surface Science</i> , 2018, 435, 552-562.	6.1	26
36	Photoinduced Chemical Reactions on Natural Single Crystals and Synthesized Crystallites of Mercury(II) Sulfide in Aqueous Solution Containing Naturally Occurring Amino Acids. <i>Inorganic Chemistry</i> , 2003, 42, 1518-1524.	4.0	25

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37	Improved catalytic activity and surface electro-kinetics of bimetallic Au@Ag core-shell nanocomposites. <i>New Journal of Chemistry</i> , 2015, 39, 304-313.	2.8	25
38	A Cu-Au bimetallic co-catalysis for the improved photocatalytic activity of TiO ₂ under visible light radiation. <i>Solar Energy</i> , 2017, 155, 1403-1410.	6.1	25
39	Photodegradation of Imidacloprid Insecticide by Ag-Deposited Titanate Nanotubes: A Study of Intermediates and Their Reaction Pathways. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 12497-12503.	5.2	24
40	Fine CuO anisotropic nanoparticles supported on mesoporous SBA-15 for selective hydrogenation of nitroaromatics. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 203-210.	9.4	24
41	Photocatalytic Degradation of Methylene Blue by Plasmonic Metal-TiO ₂ Nanocatalysts Under Visible Light Irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 1210-1216.	0.9	24
42	Impact of g-C ₃ N ₄ loading on NiCo LDH for adsorptive removal of anionic and cationic organic pollutants from aqueous solution. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 1248-1259.	2.7	24
43	Shape-dependent bactericidal activity of TiO ₂ for the killing of Gram-negative bacteria <i>Agrobacterium tumefaciens</i> under UV torch irradiation. <i>Environmental Science and Pollution Research</i> , 2013, 20, 6521-6530.	5.3	23
44	Polycyclic aromatic hydrocarbons in some grounded coffee brands. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 6459-6463.	2.7	23
45	Photocatalytic activity of transition metal and metal ions impregnated TiO ₂ nanostructures for iodide oxidation to iodine formation. <i>Journal of Molecular Catalysis A</i> , 2013, 371, 48-55.	4.8	23
46	100% selective yield of m-nitroaniline by rutile TiO ₂ and m-phenylenediamine by P25-TiO ₂ during m-dinitrobenzene photoreduction. <i>Catalysis Communications</i> , 2014, 53, 25-28.	3.3	23
47	Morphological influence of ZnO nanostructures and their Cu loaded composites for effective photodegradation of methyl parathion. <i>Solid State Sciences</i> , 2020, 99, 106045.	3.2	22
48	Superior adsorptive removal of brilliant green and phenol red dyes mixture by CaO nanoparticles extracted from egg shells. <i>Journal of Nanostructure in Chemistry</i> , 2022, 12, 207-221.	9.1	22
49	Photocatalytic degradation of salicylic acid by colloidal Fe ₂ O ₃ particles. <i>Journal of Chemical Technology and Biotechnology</i> , 1998, 73, 269-273.	3.2	21
50	Layer-by-layer accumulation of cadmium sulfide core-silica shell nanoparticles and size-selective photoetching to make adjustable void space between core and shell. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003, 160, 69-76.	3.9	21
51	The synthesis, structure, optical and photocatalytic properties of silica-coated cadmium sulfide nanocomposites of different shapes. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 250-256.	9.4	21
52	Impact of reducing and capping agents on carbohydrates for the growth of Ag and Cu nanostructures and their antibacterial activities. <i>Particuology</i> , 2019, 43, 219-226.	3.6	21
53	Photo-induced oxidation and reduction by plasmonic Ag-TiO ₂ nanocomposites under UV/sunlight. <i>Solar Energy</i> , 2020, 196, 427-436.	6.1	21
54	Highly efficient CaCO ₃ -CaO extracted from tap water distillation for effective adsorption and photocatalytic degradation of malachite green dye. <i>Materials Research Bulletin</i> , 2019, 116, 1-7.	5.2	20

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55	Anisotropic CuO nanostructures of different size and shape exhibit thermal conductivity superior than typical bulk powder. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 459, 282-289.	4.7	19
56	Homogeneous dispersion of Au nanoparticles into mesoporous SBA-15 exhibiting improved catalytic activity for nitroaromatic reduction. <i>Microporous and Mesoporous Materials</i> , 2015, 202, 219-225.	4.4	18
57	Superior adsorption removal of dye and high catalytic activity for transesterification reaction displayed by crystalline CaO nanocubes extracted from mollusc shells. <i>Fuel Processing Technology</i> , 2021, 213, 106707.	7.2	18
58	Selective formation of benzo[c]cinnoline by photocatalytic reduction of 2,2'-dinitrobiphenyl using TiO ₂ and under UV light irradiation. <i>Chemical Communications</i> , 2015, 51, 8500-8503.	4.1	17
59	Enhanced co-catalytic effect of Cu-Ag bimetallic core-shell nanocomposites imparted to TiO ₂ under visible light illumination. <i>Solar Energy Materials and Solar Cells</i> , 2017, 172, 285-292.	6.2	17
60	Fabrication of core-shell PLGA/PLA-pNIPAM nanocomposites for improved entrapment and release kinetics of antihypertensive drugs. <i>Particuology</i> , 2018, 40, 169-176.	3.6	17
61	Bimetallic Cu(core)@Zn(shell) co-catalyst impregnated TiO ₂ nanosheets (001 faceted) for the selective hydrogenation of quinoline under visible light irradiation. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 79, 314-325.	5.8	16
62	Superior adsorptive removal of eco-toxic drug diclofenac sodium by Zn-Al LDH/Bi ₂ O ₃ layer double hydroxide composites. <i>Applied Clay Science</i> , 2021, 208, 106119.	5.2	16
63	Co-catalysis effect of different morphological facets of as prepared Ag nanostructures for the photocatalytic oxidation reaction by Ag-TiO ₂ aqueous slurry. <i>Materials Chemistry and Physics</i> , 2013, 143, 393-399.	4.0	15
64	Superior photoactivity and stability of movable CdS (core)-CdO (shell) nanostructures formed in tubular SiO ₂ by laser etching of SiO ₂ @CdS nanorod. <i>Chemical Engineering Journal</i> , 2014, 246, 260-267.	12.7	15
65	Preparation and characterization of different shapes of Au-Ag bimetallic nanocomposites for enhanced physicochemical properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 481, 158-166.	4.7	15
66	Bimetallic Pd@Ni-mesoporous TiO ₂ nanocatalyst for highly improved and selective hydrogenation of carbonyl compounds under UV light radiation. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 67, 486-496.	5.8	15
67	Morphology Dependent Photocatalytic Activity of CuO/CuO-TiO ₂ Nanocatalyst for Degradation of Methyl Orange Under Sunlight. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 3123-3130.	0.9	15
68	Superior co-catalytic activity of Pd(core)@Au(shell) nanocatalyst imparted to TiO ₂ for the selective hydrogenation under solar radiations. <i>Solar Energy</i> , 2020, 205, 292-301.	6.1	15
69	Photocatalytic degradation of N-heterocyclic aromatics-effects of number and position of nitrogen atoms in the ring. <i>Environmental Science and Pollution Research</i> , 2013, 20, 3956-3964.	5.3	14
70	Catalytic Selective Hydrogenation and Cross Coupling Reaction Using Polyvinylpyrrolidone-Capped Nickel Nanoparticles. <i>ChemistrySelect</i> , 2018, 3, 4738-4744.	1.5	14
71	Hollow chitosan nanocomposite as drug carrier system for controlled delivery of ramipril. <i>Chemical Physics Letters</i> , 2018, 706, 465-471.	2.6	14
72	Effect of variable oxidation states of Mn ⁿ⁺ ion impregnated TiO ₂ nanocomposites for superior adsorption and photoactivity under visible light. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152639.	5.5	14

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73	Preparation and characterization of phase pure monoclinic ϵ - Bi_2O_3 nanoparticles and influence of Ni^{2+} and Cu^{2+} impregnation on their photocatalytic properties. <i>Materials Chemistry and Physics</i> , 2021, 260, 124173.	4.0	14
74	Recent progress in bimetallic nanostructure impregnated metal-organic framework for photodegradation of organic pollutants. <i>Applied Materials Today</i> , 2021, 24, 101105.	4.3	14
75	Superior photodecomposition of pyrene by metal ion-loaded TiO_2 catalyst under UV light irradiation. <i>Environmental Science and Pollution Research</i> , 2012, 19, 2305-2312.	5.3	13
76	Ag^+ and Cu^{2+} doped CdS nanorods with tunable band structure and superior photocatalytic activity under sunlight. <i>Materials Research Bulletin</i> , 2017, 94, 279-286.	5.2	13
77	SiO_2 -coated pure anatase TiO_2 catalysts for enhanced photo-oxidation of naphthalene and anthracene. <i>Particuology</i> , 2017, 34, 156-161.	3.6	13
78	Highly porous ZnS microspheres for superior photoactivity after Au and Pt deposition and thermal treatment. <i>Materials Research Bulletin</i> , 2013, 48, 4867-4871.	5.2	12
79	Stable anatase TiO_2 formed by calcination of rice-like titania nanorod at $800\text{ }^\circ\text{C}$ exhibits high photocatalytic activity. <i>RSC Advances</i> , 2014, 4, 24704-24709.	3.6	12
80	Fine-tuning the photoluminescence and photocatalytic properties of CdS nanorods of varying dimensions. <i>Materials Research Bulletin</i> , 2013, 48, 1403-1410.	5.2	11
81	Fe_3O_4 @ PLGA-PEG Nanocomposite for Improved Delivery of Methotrexate in Cancer Treatment. <i>ChemistrySelect</i> , 2018, 3, 8522-8528.	1.5	11
82	Recent advances on visible light active non-typical stoichiometric oxygen-rich Bi_2O_3 photocatalyst for environment pollution remediation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107688.	6.7	11
83	Physicochemical and catalytic properties of Au nanorods micro-assembled in solvents of varying dipole moment and refractive index. <i>Materials Research Bulletin</i> , 2015, 62, 11-18.	5.2	10
84	Metal ion- TiO_2 nanocomposites for the selective photooxidation of benzene to phenol and cycloalkanol to cycloalkanone. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 148-160.	2.4	10
85	An investigation into the effect of nanoclusters growth on perikinetic heat conduction mechanism in an oxide based nanofluid. <i>Powder Technology</i> , 2017, 311, 273-286.	4.2	10
86	Selective detection of Mg^{2+} ions via enhanced fluorescence emission using Au-DNA nanocomposites. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 762-771.	2.8	10
87	Solar light driven photocatalytic oxidative degradation of methyl viologen using $\text{Mn}^{2+}/\text{Mn}^{7+}$ - TiO_2 nanocomposites. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 393, 112430.	3.9	10
88	Influence of Ag/Cu photodeposition on CaTiO_3 photocatalytic activity for degradation of Rhodamine B dye. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 942-953.	2.7	10
89	Synthesis of metal-cadmium sulfide nanocomposites using jingle-bell-shaped core-shell photocatalyst particles. <i>Journal of Applied Electrochemistry</i> , 2005, 35, 751-756.	2.9	9
90	Influence of thermal treatment and Au-loading on the growth of versatile crystal phase composition and photocatalytic activity of sodium titanate nanotubes. <i>RSC Advances</i> , 2014, 4, 51342-51348.	3.6	9

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91	Morphological and physicochemical properties of Ag@Au binary nanocomposites prepared using different surfactant capped Ag nanoparticles. RSC Advances, 2015, 5, 39954-39963.	3.6	9
92	Aloe-vera flower shaped rutile TiO ₂ for selective hydrogenation of nitroaromatics under direct sunlight irradiation. Arabian Journal of Chemistry, 2020, 13, 2171-2182.	4.9	9
93	Photocatalytic Killing of Pathogenic Bacterial Cells Using Nanosize Fe ₂ O ₃ and Carbon Nanotubes. Journal of Biomedical Nanotechnology, 2005, 1, 365-368.	1.1	9
94	Selective Photo-Reduction of Nitrophenol to p-Aminophenol by Au Deposited CdS Nanostructures of Different Shapes Having Large Surface Area. Journal of Nanoscience and Nanotechnology, 2013, 13, 4917-4924.	0.9	8
95	Influence of Au Photodeposition and Doping in CdS Nanorods: Optical and Photocatalytic Study. Particulate Science and Technology, 2015, 33, 53-58.	2.1	8
96	Prediction and optimization of nanoclusters-based thermal conductivity of nanofluids: Application of Box-Behnken design (BBD). Particulate Science and Technology, 2017, 35, 265-276.	2.1	8
97	Influence of co-catalyst amount/size for selective hydrogenation of 1,3-dinitrobenzene over Au-mTiO ₂ nanocomposites under visible light. Advanced Powder Technology, 2019, 30, 1329-1337.	4.1	8
98	Enhanced photocatalytic degradation of eco-toxic pharmaceutical waste diclofenac sodium by anion loaded Cu-Al LDH/BiO composites. Journal of the Taiwan Institute of Chemical Engineers, 2021, 129, 227-236.	5.3	8
99	Solar irradiated selective nitroaromatics reduction over plasmonic Ag-TiO ₂ : Deposition time dependent size growth and oxidation state of co-catalyst. Chemical Engineering Journal, 2022, 429, 132385.	12.7	8
100	Influence of capping agents on morphology and photocatalytic response of ZnS nanostructures towards crystal violet degradation under UV and sunlight. Separation and Purification Technology, 2022, 281, 119869.	7.9	8
101	Photocatalytic formation of hydrogen peroxide over highly porous illuminated ZnO and TiO ₂ thin film. Toxicological and Environmental Chemistry, 2000, 78, 233-241.	1.2	7
102	Rapid photokilling of gram-negative Escherichia coli bacteria by platinum dispersed titania nanocomposite films. Materials Chemistry and Physics, 2012, 136, 21-27.	4.0	7
103	Woolen bun shaped CdS microspheres enfolded 1D nanowires for the superior photooxidation of dyes: A comparative case study. Journal of Molecular Catalysis A, 2015, 396, 15-22.	4.8	7
104	Photocatalytic Preparation of Encapsulated Gold Nanoparticles by Jingle-bell-shaped Cadmium Sulfide/silica Nanoparticles. Topics in Catalysis, 2005, 35, 321-325.	2.8	6
105	Improved surface properties and catalytic activity of anisotropic shapes of photoetched Au nanostructures formed by variable energy laser exposure. Journal of Molecular Catalysis A, 2014, 395, 7-15.	4.8	6
106	Co-catalytic and electro-kinetic properties of Au nanostructures dispersed in solvents of varying dipole moments. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 441, 155-163.	4.7	6
107	Phase-dependent thermophysical properties of α - and β -Al ₂ O ₃ in aqueous suspension. Journal of Industrial and Engineering Chemistry, 2015, 25, 99-104.	5.8	6
108	Surface structural, morphological, and catalytic studies of homogeneously dispersed anisotropic Ag nanostructures within mesoporous silica. Journal of Nanoparticle Research, 2016, 18, 1.	1.9	6

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109	Effect of time dependent nanoclusters morphology on the thermal conductivity and heat transport mechanism of TiO ₂ based nanofluid. Heat and Mass Transfer, 2017, 53, 1873-1892.	2.1	6
110	Biosynthesized monodispersed spherical Se co-catalyst nanoparticles impregnated over ZnO for 4-chloroguaiacol degradation under solar irradiations. Journal of Environmental Chemical Engineering, 2021, 9, 104892.	6.7	6
111	Time-dependent growth of CaO nano flowers from egg shells exhibit improved adsorption and catalytic activity. Advanced Powder Technology, 2021, 32, 3288-3296.	4.1	5
112	Synthesis and Characterization of Ramipril Embedded Nanospheres of Biodegradable Poly-D,L-Lactide-co-Glycolide and Their Kinetic Release Study. Advanced Science, Engineering and Medicine, 2016, 8, 444-449.	0.3	5
113	Enhanced Photocatalytic Activity of as-Prepared Sodium Titanates for <math>m\</math>-Dinitrobenzene Reduction and Sulfosulfuron Oxidation. Journal of Nanoscience and Nanotechnology, 2015, 15, 1490-1498.	0.9	4
114	Influence of CuO Nanostructures on the Thermal Conductivity of DI Water and Ethylene Glycol Based Nanofluids. Particulate Science and Technology, 2015, 33, 224-228.	2.1	4
115	Enhanced Stability, Conductance, and Catalytic Activity of Gold Nanoparticles via Oxidative Dissolution by KMnO ₄ . Particulate Science and Technology, 2015, 33, 159-165.	2.1	4
116	Facile Synthesis of Anisotropic Au Nanostructures by Laser Irradiation and Study of Their Optical and Electrokinetic Properties. Particulate Science and Technology, 2015, 33, 139-144.	2.1	4
117	Influence of Oxidative Etching of Au Nanostructures by KMnO ₄ on its Surface Morphology, Electro-kinetic Properties and Improved Catalytic Activity. Journal of Industrial and Engineering Chemistry, 2015, 31, 223-230.	5.8	4
118	Influence of Different Reducing Agents on the Ag Nanostructures and Their Electrokinetic and Catalytic Properties. Journal of Nanoscience and Nanotechnology, 2015, 15, 2753-2760.	0.9	4
119	Preparation, Surface and Crystal Structure, Band Energetics, Optoelectronic, and Photocatalytic Properties of Au _x Cd _{1-x} S Nanorods. ChemPlusChem, 2015, 80, 851-858.	2.8	4
120	Remarkably Improved Dispersion Stability and Thermal Conductivity of WO ₃ •H ₂ O Suspension by SiO ₂ Coating. Journal of Nanoscience and Nanotechnology, 2018, 18, 3283-3290.	0.9	4
121	Tuning the band energetics of size dependent titania nanostructures for improved photo-reductive efficiency of aromatic aldehydes. Journal of Industrial and Engineering Chemistry, 2019, 80, 325-334.	5.8	4
122	A co-relation study of efficient photocatalytic reduction of aromatic nitriles and band energies of Cu loaded elongated TiO ₂ nanocatalysts. Journal of the Taiwan Institute of Chemical Engineers, 2019, 96, 559-565.	5.3	4
123	Fabrication of hollow SiO ₂ and Au (core)@SiO ₂ (shell) nanostructures of different shapes by CdS template dissolution. Journal of Sol-Gel Science and Technology, 2013, 68, 284-293.	2.4	3
124	Superior Photoluminescence and Photocatalytic Activity of CdS (Core)@SiO ₂ (Shell) Nanostructures Obtained by CdS Photoetching and Au Deposition. Journal of Nanoscience and Nanotechnology, 2013, 13, 5069-5079.	0.9	3
125	Photo-oxidation kinetics of sugars having different molecular size and glycosidic linkages for their complete mineralization to subunits by bare/Ag@TiO ₂ under UV irradiation. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 488-494.	5.3	3
126	Effect of Different Shapes of TiO ₂ Nanoparticles on the Catalytic Photodegradation of Salicylic Acid Under UV Light. Journal of Nanoscience and Nanotechnology, 2017, 17, 5303-5309.	0.9	3

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127	Surface structure, morphology and crystal phase-dependent photoactivity of MnO ₂ nanocatalysts under sunlight. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	1.7	3
128	Shape Dependent Thermal Conductivity of TiO ₂ -Deionized Water and Ethylene Glycol Dispersion. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3670-3676.	0.9	2
129	A brief review on modified layered double hydroxides for H ₂ production through photoinduced H ₂ O splitting. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2021, 16, 100451.	2.9	2
130	Enhanced Photocatalytic Activity of Coinage Metal-Cadmium Sulfide Nanorod Composites under Sun Light Irradiation. <i>Advanced Materials Research</i> , 0, 678, 189-192.	0.3	1
131	EFFECT OF Au AND Pt DEPOSITION AND THERMAL TREATMENT ON THE PHOTOCATALYTIC ACTIVITY OF AS-PREPARED ZnS NANOROD. <i>International Journal of Nanoscience</i> , 2013, 12, 1350032.	0.7	1
132	Sensitivity of the Multiple Functional Moieties of Amino Acids for the Self-Assembly of Au Nanoparticles on Different Physicochemical Properties. <i>Journal of Cluster Science</i> , 2014, 25, 1085-1098.	3.3	1
133	Influence of Thermal Treatment and Fe-Loading on Morphology, Crystal Structure, and Photocatalytic Activity of Sodium Titanate Nanotubes. <i>Particulate Science and Technology</i> , 2015, 33, 132-138.	2.1	1
134	Phase and Shape Dependent Photoactivity of Titania for Nitroaromatics Reduction Under UV Light Irradiation. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 803-809.	0.9	1
135	Impact of metal ions (Cr ⁺⁶ /Mn ⁺⁷) loaded CaCO ₃ extracted from tap water for adsorption/ degradation of toxic pollutants under sunlight. <i>Materials Express</i> , 2022, 12, 106-113.	0.5	1
136	Photocatalytic Organic Syntheses: Selective Cyclization of Amino Acids in Aqueous Suspensions. <i>ChemInform</i> , 2004, 35, no.	0.0	0
137	PHOTOCHEMICAL FABRICATION OF TRANSITION METAL NANOPARTICLES USING CdS TEMPLATE AND THEIR CO-CATALYSIS EFFECTS FOR TiO ₂ PHOTOCATALYSIS. <i>International Journal of Nanoscience</i> , 2013, 12, 1350020.	0.7	0
138	Oxidative degradation of aliphatic carboxylic acids by photocatalysis with bare and Ag-loaded TiO ₂ under UV light irradiation. <i>Particulate Science and Technology</i> , 2018, 36, 212-216.	2.1	0
139	Superior Co-catalysis by Bimetallic Nanostructure for TiO ₂ Photocatalysis. <i>Journal of Photocatalysis</i> , 2021, 2, 62-70.	0.4	0
140	Role of different oxidation states of Cr ⁿ⁺ -TiO ₂ nanocomposites for the degradation of drugs under solar irradiation. <i>Materials Chemistry and Physics</i> , 2021, 269, 124740.	4.0	0