

Swee-Yong Pung

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,986
citations

257450

24
h-index

265206

42
g-index

80
all docs

80
docs citations

80
times ranked

2394
citing authors

#	ARTICLE	IF	CITATIONS
1	Preferential growth of ZnO thin films by the atomic layer deposition technique. <i>Nanotechnology</i> , 2008, 19, 435609.	2.6	188
2	A review on ZnO-based piezoelectric nanogenerators: Synthesis, characterization techniques, performance enhancement and applications. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156172.	5.5	136
3	Mechanisms of removal of heavy metal ions by ZnO particles. <i>Heliyon</i> , 2019, 5, e01440.	3.2	131
4	New Insights on the Burstein-Moss Shift and Band Gap Narrowing in Indium-Doped Zinc Oxide Thin Films. <i>PLoS ONE</i> , 2015, 10, e0141180.	2.5	122
5	Recent developments in MnO ₂ -based photocatalysts for organic dye removal: a review. <i>Environmental Science and Pollution Research</i> , 2020, 27, 5759-5778.	5.3	113
6	Amino-Functionalized MXene Nanosheets Doped with Ce(III) as Potent Nanocontainers toward Self-Healing Epoxy Nanocomposite Coating for Corrosion Protection of Mild Steel. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42074-42093.	8.0	103
7	ZnO based nanowires grown by chemical vapour deposition for selective hydrogenation of acetylene alcohols. <i>Catalysis Science and Technology</i> , 2011, 1, 768.	4.1	81
8	Kinetic Study of Organic Dye Degradation Using ZnO Particles with Different Morphologies as a Photocatalyst. <i>International Journal of Inorganic Chemistry</i> , 2012, 2012, 1-9.	0.6	74
9	Photodegradation of rhodamine B-dye pollutant using CaCu ₃ Ti ₄ O ₁₂ -multiwall carbon nanotube nanocomposites. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105185.	6.7	59
10	Conversion and characterization of activated carbon fiber derived from palm empty fruit bunch waste and its kinetic study on urea adsorption. <i>Journal of Environmental Management</i> , 2017, 197, 199-205.	7.8	57
11	Stacked ZnO nanorods synthesized by solution precipitation method and their photocatalytic activity study. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 74, 260-271.	2.4	48
12	Tip-growth mode and base-growth mode of Au-catalyzed zinc oxide nanowires using chemical vapor deposition technique. <i>Journal of Crystal Growth</i> , 2010, 312, 2049-2055.	1.5	40
13	Antibacterial activity by ZnO nanorods and ZnO nanodisks: A model used to illustrate the Nanotoxicity Threshold. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 62, 333-340.	5.8	40
14	Influence of annealing temperature on morphological and photocatalytic activity of sputter-coated CaCu ₃ Ti ₄ O ₁₂ thin film under ultraviolet light irradiation. <i>Ceramics International</i> , 2019, 45, 20697-20703.	4.8	38
15	Photocatalytic Degradation of Organic Dye by Sol-Gel-Synthesized CaCu ₃ Ti ₄ O ₁₂ Powder. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 2006-2014.	2.5	38
16	Highly efficient oxidative degradation of organic dyes by manganese dioxide nanoflowers. <i>Materials Chemistry and Physics</i> , 2022, 280, 125848.	4.0	37
17	Polycrystalline TiO ₂ particles synthesized via one-step rapid heating method as electrons transfer intermediate for Rhodamine B removal. <i>Materials Chemistry and Physics</i> , 2021, 257, 123784.	4.0	35
18	Effect of Ar:N ₂ flow rate on morphology, optical and electrical properties of CCTO thin films deposited by RF magnetron sputtering. <i>Ceramics International</i> , 2019, 45, 15077-15081.	4.8	31

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19	Synthesis of core/shell-structured CaCu ₃ Ti ₄ O ₁₂ /SiO ₂ composites for effective degradation of rhodamine B under ultraviolet light. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 19587-19598.	2.2	31
20	Physicochemical evaluation and in vitro hemocompatibility study on nanoporous hydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2019, 30, 44.	3.6	30
21	Synthesis of V ₂ O ₅ Nanoflakes on PET Fiber as Visible-Light-Driven Photocatalysts for Degradation of RhB Dye. <i>Journal of Catalysts</i> , 2014, 2014, 1-7.	0.5	27
22	Effect of Ni coupling on the photoluminescence property and photocatalytic activity of ZnO nanorods. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 61, 156-165.	5.3	27
23	The role of ammonia hydroxide in the formation of ZnO hexagonal nanodisks using sol-gel technique and their photocatalytic study. <i>Journal of Experimental Nanoscience</i> , 2015, 10, 1068-1081.	2.4	26
24	Photocatalytic activity of Fe ²⁺ -MnO ₂ nanotubes grown on PET fibre under visible light irradiation. <i>Journal of Experimental Nanoscience</i> , 2016, 11, 603-618.	2.4	25
25	Synergistic effect of pH solution and photocorrosion of ZnO particles on the photocatalytic degradation of Rhodamine B. <i>Bulletin of Materials Science</i> , 2021, 44, 1.	1.7	25
26	Photocatalytic activity of ZnO-MnO ₂ core shell nanocomposite in degradation of RhB dye. <i>Pigment and Resin Technology</i> , 2016, 45, 408-418.	0.9	23
27	Highly UV light driven WO _x @ZnO nanocomposites synthesized by liquid impregnation method. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 46, 119-129.	5.8	21
28	Efficient dye-removal via Ni-decorated graphene oxide-carbon nanotube nanocomposites. <i>Materials Chemistry and Physics</i> , 2021, 260, 124117.	4.0	20
29	Photocatalytic Degradation of Rhodamine B Using MnO ₂ and ZnO Nanoparticles. <i>Materials Science Forum</i> , 0, 756, 167-174.	0.3	19
30	Mesoporous hydroxyapatite derived from surfactant-templating system for p-Cresol adsorption: Physicochemical properties, formation process and adsorption performance. <i>Powder Technology</i> , 2019, 342, 725-734.	4.2	19
31	Current Updates On the In vivo Assessment of Zinc Oxide Nanoparticles Toxicity Using Animal Models. <i>BioNanoScience</i> , 2021, 11, 590-620.	3.5	19
32	Morphology and optical properties of ZnO nanorods coupled with metal oxides of various bandgaps by photo-oxidation. <i>Journal of Luminescence</i> , 2021, 229, 117649.	3.1	18
33	Effects of multiwall carbon nanotubes on dielectric and mechanical properties of CaCu ₃ Ti ₄ O ₁₂ composite. <i>Ceramics International</i> , 2020, 46, 20313-20319.	4.8	17
34	Sol-gel hydrothermal synthesis of microstructured CaO-based adsorbents for CO ₂ capture. <i>RSC Advances</i> , 2015, 5, 6051-6060.	3.6	16
35	Degradation of organic dye using ZnO nanorods based continuous flow water purifier. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 66, 399-405.	2.4	15
36	Effect of ZnO Seed Layer on the Growth of ZnO Nanorods on Silicon Substrate. <i>Materials Today: Proceedings</i> , 2019, 17, 553-559.	1.8	14

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37	Predicting the photocatalytic performance of metal/metal oxide coupled TiO ₂ particles using Response Surface Methodology (RSM). <i>Materials Chemistry and Physics</i> , 2021, 269, 124739.	4.0	14
38	Growth of Fe-doped ZnO nanorods using aerosol-assisted chemical vapour deposition via in situ doping. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 116, 1801-1811.	2.3	13
39	Structural and infrared properties of zinc oxide film and nanowires. <i>Journal of Crystal Growth</i> , 2010, 312, 2220-2225.	1.5	12
40	Effect of cetyl trimethyl ammonium bromide concentration on structure, morphology and carbon dioxide adsorption capacity of calcium hydroxide based sorbents. <i>Applied Surface Science</i> , 2016, 363, 586-592.	6.1	12
41	Enhancement of thermal stability and UV resistance of halloysite nanotubes using zinc oxide functionalization via a solvent-free approach. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 787-795.	4.9	11
42	Effect of WO ₃ loading on structural, electrical and dielectric properties of CaCu ₃ Ti ₄ O ₁₂ ceramic composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 6806-6810.	2.2	11
43	Growth of ZnO Nanorods on Stainless Steel Wire Using Chemical Vapour Deposition and Their Photocatalytic Activity. <i>Scientific World Journal, The</i> , 2014, 2014, 1-9.	2.1	10
44	Assessment of Rhodamine B Dye Removal by ZnO Nanodisks under Visible Light. <i>Journal of Physics: Conference Series</i> , 2018, 1082, 012045.	0.4	10
45	Growth of (002)-oriented ZnO thin films on largely lattice-mismatched substrates using atomic layer deposition. <i>International Journal of Nanotechnology</i> , 2013, 10, 247.	0.2	9
46	Effect of metal/metal oxide coupling on the photoluminescence properties of ZnO microrods. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	2.3	9
47	Silver nanoparticles coupled ZnO nanorods array prepared using photo-reduction method for localized surface plasmonic effect study. <i>Journal of Crystal Growth</i> , 2020, 547, 125806.	1.5	9
48	Effect of TiO ₂ sol on the conversion efficiency of TiO ₂ based dye-sensitized solar cell. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 95, 439-446.	2.4	8
49	Effect of Dip-Coating Cycles on the Structural and Performance of ZnO Thin Film-based DSSC. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 6741-6751.	3.0	8
50	<i>In situ</i> doping of ZnO nanowires using aerosol-assisted chemical vapour deposition. <i>Nanotechnology</i> , 2010, 21, 345602.	2.6	7
51	Loading effect of Ag/AgO on the photocatalytic performance of ZnO rods. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	7
52	Reusability of metals/metal oxide coupled zinc oxide nanorods in degradation of rhodamine B dye. <i>Pigment and Resin Technology</i> , 2020, 50, 10-18.	0.9	7
53	Effect of pH on the photocatalytic removal of silver ions by $\hat{\text{I}}^2\text{-MnO}_2$ particles. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 325-334.	4.9	7
54	Effect of Deposition Temperature on the Growth of Tungsten Oxide Layer Deposited on Polyethylene Terephthalate Fibers. <i>Procedia Engineering</i> , 2017, 184, 695-707.	1.2	5

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55	Rhodamine B dye removal and inhibitory effect on <i>B. subtilis</i> and <i>S. aureus</i> by WO _x nanoparticles. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 67, 437-447.	5.8	5
56	Tire strain piezoelectric energy harvesters: a systematic review. <i>International Journal of Power Electronics and Drive Systems</i> , 2022, 13, 444.	0.6	5
57	UV-protective properties of poly(lactic acid) nanocomposites containing chemical treated halloysite nanotube. <i>Materials Today: Proceedings</i> , 2019, 17, 853-863.	1.8	4
58	Structural and Antibacterial Properties of WO ₃ /ZnO Hybrid Particles against Pathogenic Bacteria. <i>Materials Today: Proceedings</i> , 2019, 17, 1008-1017.	1.8	4
59	Effect of annealing temperature on the performance of ZnO thin film-based dye sensitized solar cell. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	4
60	A Comparison Study between ZnO Nanorods and WO ₃ /ZnO Nanorods in Bromocresol Green Dye Removal. <i>Solid State Phenomena</i> , 0, 264, 87-90.	0.3	3
61	Photocatalytic activity of ZnO nanodisks in degradation of Rhodamine B and Bromocresol Green under UV light exposure. <i>Journal of Physics: Conference Series</i> , 2018, 1082, 012085.	0.4	3
62	Photocatalytic performance of TiO ₂ particles in degradation of various organic dyes under visible and UV light irradiation. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	3
63	Sodium Tungsten Oxide Bronze Nanowires Bundles in Adsorption of Methylene Blue Dye under UV and Visible Light Exposure. <i>Energies</i> , 2021, 14, 1322.	3.1	3
64	Growth Mechanism of Au-Catalyzed ZnO Nanowires: VLS or VS-VLS?. <i>Advanced Materials Research</i> , 2011, 364, 333-337.	0.3	2
65	<i>Ex Situ</i> Doping of ZnO Nanorods by Spray Pyrolysis Technique. <i>Materials Science Forum</i> , 2013, 756, 16-23.	0.3	2
66	Effect of CVD Synthesis Parameters on the Growth of Catalyst-Free ZnO NRs. <i>Materials Science Forum</i> , 0, 756, 24-30.	0.3	2
67	Luminescence of Sr ₂ MgSi ₂ O ₇ Phosphor Prepared by Solid State Reaction. <i>Advanced Materials Research</i> , 0, 1024, 344-347.	0.3	2
68	Insights on semiconductor-metal transition in indium-doped zinc oxide from x-ray photoelectron spectroscopy, time-of-flight secondary ion mass spectrometry and x-ray diffraction. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
69	Photodegradation behavior of ZnO nanorods on various types of organic dyes. <i>Advances in Materials and Processing Technologies</i> , 2018, 4, 272-280.	1.4	2
70	Growth of Au-catalyzed and self-catalyzed ZnO nanowires using chemical vapor deposition technique. , 2010, , .		1
71	Synthesis and Growth Mechanism of Catalyst-Free ZnO Nanowires Using Chemical Vapour Deposition. <i>Advanced Materials Research</i> , 0, 620, 320-324.	0.3	1
72	Ultraviolet Photoresponse Properties of Zinc Oxide Nanorods on Heavily Boron-Doped Diamond Heterostructure. <i>Advanced Materials Research</i> , 2013, 832, 172-177.	0.3	1

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73	Structural and Optical Properties of Fe-Doped ZnO Nanorods. Advanced Materials Research, 0, 858, 151-158.	0.3	1
74	Effect of calcination temperature on the photodegradation efficiency of Ni/ZnO composite in removal of organic dye. AIP Conference Proceedings, 2017, , .	0.4	1
75	Effect of sodium tungstate dehydrate concentration on the growth of tungsten oxide layer grown on polyethylene terephthalate fiber and its photocatalytic in removal of RhB dye under visible light irradiation. AIP Conference Proceedings, 2017, , .	0.4	1
76	Effect of Co-Dopant on the Phase Structure and Photoluminescence Properties of Sr ₂ MgSi ₂ O ₇ : Eu ²⁺ +Phosphors. Journal of Physics: Conference Series, 2018, 1082, 012022.	0.4	1
77	Heavy metal ions removal using \hat{I}^2 -MnO ₂ particles under UV irradiation. AIP Conference Proceedings, 2020, , .	0.4	1
78	Growth of Vertically Aligned ZnO Nanowires on Iron Oxide Layer. Advanced Materials Research, 0, 378-379, 740-743.	0.3	0
79	Controlled Growth of ZnO Nanoparticles with Different Morphologies Using Sol-Gel Technique. Advanced Materials Research, 0, 1024, 19-22.	0.3	0
80	Microstructure and Mechanical Behavior of CaCu ₃ Ti ₄ O ₁₂ ; Ceramics Hollow Fiber Prepared via Dry/Wet Spinning Method. Materials Science Forum, 0, 1010, 239-243.	0.3	0