

Jin-Chung Sin

List of Publications by Year in descending order

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98
papers

4,245
citations

87401

40
h-index

129628

63
g-index

98
all docs

98
docs citations

98
times ranked

4622
citing authors

#	ARTICLE	IF	CITATIONS
1	Ameliorating Cu ²⁺ reduction in microbial fuel cell with Z-scheme BiFeO ₃ decorated on flower-like ZnO composite photocathode. <i>Chemosphere</i> , 2022, 287, 132384.	4.2	45
2	MXenes and their composites for potential antimicrobial applications. , 2022, , 525-551.		3
3	Comparative study of g-C ₃ N ₄ /Ag-based metals (V, Mo, and Fe) composites for degradation of Reactive Black 5 (RB5) under simulated solar light irradiation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107308.	3.3	7
4	Ameliorated photodegradation performance of polyethylene and polystyrene films incorporated with ZnO-PVP catalyst. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107594.	3.3	32
5	0-D/3-D heterojunction composite constructed by decorating transition metal oxide nanoparticle on peony-like ZnO hierarchical microstructure for improved photodegradation of palm oil mill effluent. <i>Optik</i> , 2022, 260, 169098.	1.4	17
6	Enhanced synchronous photocatalytic 4-chlorophenol degradation and Cr(VI) reduction by novel magnetic separable visible-light-driven Z-scheme CoFe ₂ O ₄ /P-doped BiOBr heterojunction nanocomposites. <i>Environmental Research</i> , 2022, 212, 113394.	3.7	59
7	Sunlight-driven photocatalytic fuel cell with WO ₃ /rod-like ZnO/Zn photoanode for food wastewater treatment and electricity production. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	0
8	Response surface approach for visible-light-driven photodegradation of sunset yellow over flower-like BiOBr hierarchical structures. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	0
9	Construction of delaminated Ti ₃ C ₂ MXene/NiFe ₂ O ₄ /V ₂ O ₅ ternary composites for expeditious pollutant degradation and bactericidal property. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108284.	3.3	61
10	Green synthesis of Fe-ZnO nanoparticles with improved sunlight photocatalytic performance for polyethylene film deterioration and bacterial inactivation. <i>Materials Science in Semiconductor Processing</i> , 2021, 123, 105574.	1.9	84
11	Surface decorated coral-like magnetic BiFeO ₃ with Au nanoparticles for effective sunlight photodegradation of 2,4-D and E. coli inactivation. <i>Journal of Molecular Liquids</i> , 2021, 326, 115372.	2.3	71
12	Insight into the influence of noble metal decorated on BiFeO ₃ for 2,4-dichlorophenol and real herbicide wastewater treatment under visible light. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 614, 126138.	2.3	41
13	Z-scheme MoO ₃ anchored-hexagonal rod like ZnO/Zn photoanode for effective wastewater treatment, copper reduction accompanied with electricity production in sunlight-powered photocatalytic fuel cell. <i>Separation and Purification Technology</i> , 2021, 265, 118495.	3.9	69
14	Fabrication of Z-scheme rod-like Ag ₂ Mo ₂ O ₇ /g-C ₃ N ₄ for phenol degradation under IO ₄ ⁻ /visible light system. <i>Materials Letters</i> , 2021, 294, 129791.	1.3	8
15	Punica granatum mediated green synthesis of cauliflower-like ZnO and decorated with bovine bone-derived hydroxyapatite for expeditious visible light photocatalytic antibacterial, antibiofilm and antioxidant activities. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105736.	3.3	37
16	Magnetic NiFe ₂ O ₄ nanoparticles decorated on N-doped BiOBr nanosheets for expeditious visible light photocatalytic phenol degradation and hexavalent chromium reduction via a Z-scheme heterojunction mechanism. <i>Applied Surface Science</i> , 2021, 559, 149966.	3.1	82
17	Facile synthesis of MnO ₂ /ZnO coated on cotton fabric for boosted antimicrobial, self-cleaning and photocatalytic activities under sunlight. <i>Materials Letters</i> , 2021, 305, 130818.	1.3	34
18	Effect of carbon nanotubes loading on the photocatalytic activity of zinc oxide/carbon nanotubes photocatalyst synthesized via a modified sol-gel method. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103222.	3.3	42

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19	Magnetic-Based Photocatalyst for Antibacterial Application and Catalytic Performance. Environmental Chemistry for A Sustainable World, 2020, , 195-215.	0.3	2
20	Magnetically recoverable Pd-loaded BiFeO ₃ microcomposite with enhanced visible light photocatalytic performance for pollutant, bacterial and fungal elimination. Separation and Purification Technology, 2020, 236, 116195.	3.9	78
21	Explicating charge transfer dynamics in anodic TiO ₂ /ZnO/Zn photocatalytic fuel cell for ameliorated palm oil mill effluent treatment and synchronized energy generation. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 391, 112353.	2.0	35
22	Greywater and bacteria removal with synchronized energy production in photocatalytic fuel cell based on anodic TiO ₂ /ZnO/Zn and cathodic CuO/Cu. Chemosphere, 2020, 245, 125565.	4.2	47
23	In situ acid fabrication of g-C ₃ N ₄ photocatalyst with improved adsorptive and photocatalytic properties. Materials Letters, 2020, 261, 126990.	1.3	13
24	Bioinspired green synthesis of ZnO structures with enhanced visible light photocatalytic activity. Journal of Materials Science: Materials in Electronics, 2020, 31, 1144-1158.	1.1	22
25	<i>Musa acuminata</i> peel extract mediated eco-friendly synthesis of solar light-active ZnO nanosponge for enhanced dyeing wastewater degradation. E3S Web of Conferences, 2020, 167, 01003.	0.2	2
26	Synchronous organics removal and copper reduction in semiconductor wastewater with energy recuperation via photocatalytic fuel cell. E3S Web of Conferences, 2020, 167, 01002.	0.2	2
27	Constructing magnetic separable BiOBr/MnFe ₂ O ₄ as efficient Z-scheme nanocomposite for visible light-driven degradation of palm oil mill effluent and inactivation of bacteria. Materials Letters, 2020, 275, 128112.	1.3	29
28	Z-scheme heterojunction nanocomposite fabricated by decorating magnetic MnFe ₂ O ₄ nanoparticles on BiOBr nanosheets for enhanced visible light photocatalytic degradation of 2,4-dichlorophenoxyacetic acid and Rhodamine B. Separation and Purification Technology, 2020, 250, 117186.	3.9	92
29	Fabrication of novel visible light-driven Nd-doped BiOBr nanosheets with enhanced photocatalytic performance for palm oil mill effluent degradation and Escherichia coli inactivation. Journal of Physics and Chemistry of Solids, 2020, 140, 109382.	1.9	25
30	A Z-scheme WO ₃ loaded-hexagonal rod-like ZnO/Zn photocatalytic fuel cell for chemical energy recuperation from food wastewater treatment. Applied Surface Science, 2020, 514, 145945.	3.1	69
31	Valorization of exo-microbial fermented coconut endosperm waste by black soldier fly larvae for simultaneous biodiesel and protein productions. Environmental Research, 2020, 185, 109458.	3.7	50
32	Application of Liquid Chromatography-Mass Spectrometry for the Analysis of Endocrine Disrupting Chemical Transformation Products in Advanced Oxidation Processes and Their Reaction Mechanisms. , 2019, , 1633-1657.		0
33	Citrullus lanatus mediated-green synthesis of Ag/ZnO composite for photocatalytic degradation of 2,4-dichlorophenoxyacetic acid. AIP Conference Proceedings, 2019, , .	0.3	4
34	Investigation of By-products from Acetylene Manufacturing for Acid Mine Drainage Remediation. Mine Water and the Environment, 2019, 38, 757-766.	0.9	5
35	Concurrent palm oil mill effluent degradation and power production by photocatalytic fuel cell. AIP Conference Proceedings, 2019, , .	0.3	2
36	Green synthesis of ZnO nanoparticles using Hibiscus rosa-sinensis leaves extracts and evaluation of their photocatalytic activities. AIP Conference Proceedings, 2019, , .	0.3	5

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37	Green synthesis of magnetic Fe-doped ZnO nanoparticles via Hibiscus rosa-sinensis leaf extracts for boosted photocatalytic, antibacterial and antifungal activities. <i>Materials Letters</i> , 2019, 242, 103-106.	1.3	64
38	Boosting visible light photocatalytic and antibacterial performance by decoration of silver on magnetic spindle-like bismuth ferrite. <i>Materials Science in Semiconductor Processing</i> , 2019, 101, 103-115.	1.9	64
39	Advancement of Photocatalytic Water Treatment Technology for Environmental Control. , 2019, , 1719-1746.		0
40	Shape-Controlled Fabrication of ZnO Architectures for Palm Oil Mill Effluent Degradation. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 5271-5278.	0.9	3
41	Facile synthesis of novel ZnO/Nd-doped BiOBr composites with boosted visible light photocatalytic degradation of phenol. <i>Materials Letters</i> , 2019, 248, 20-23.	1.3	29
42	Constructing magnetic Pt-loaded BiFeO ₃ nanocomposite for boosted visible light photocatalytic and antibacterial activities. <i>Environmental Science and Pollution Research</i> , 2019, 26, 10204-10218.	2.7	35
43	Photocatalytic Fuel Cell Using TiO ₂ /ZnO/Zn Photoanode for Greywater and Bacteria Abatements with Power Generation Concomitantly. <i>Key Engineering Materials</i> , 2019, 821, 366-371.	0.4	2
44	Photocatalytic degradation of organic pollutants using magnetic Pd-doped BiFeO ₃ composites under visible light irradiation. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	2
45	Preparation of Nb ₂ O ₅ -decorated hierarchical porous ZnO microspheres with enhanced photocatalytic degradation of palm oil mill effluent. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1739-1750.	1.1	11
46	Wet chemically synthesized ZnO structures for photodegradation of pre-treated palm oil mill effluent and antibacterial activity. <i>Ceramics International</i> , 2019, 45, 1868-1880.	2.3	55
47	Influence of PVP surfactant on the morphology and properties of ZnO micro/nanoflowers for dye mixtures and textile wastewater degradation. <i>Materials Chemistry and Physics</i> , 2018, 212, 35-43.	2.0	73
48	Hydrothermal synthesis of coral-like palladium-doped BiFeO ₃ nanocomposites with enhanced photocatalytic and magnetic properties. <i>Materials Letters</i> , 2018, 224, 1-4.	1.3	20
49	Sequencing coagulation-photodegradation treatment of Malachite Green dye and textile wastewater through ZnO micro/nanoflowers. <i>Chemical Engineering Communications</i> , 2018, 205, 1143-1156.	1.5	23
50	Application of Liquid Chromatography-Mass Spectrometry for the Analysis of Endocrine Disrupting Chemical Transformation Products in Advanced Oxidation Processes and Their Reaction Mechanisms. , 2018, , 1-25.		0
51	A facile route for fabrication of hierarchical porous Nb ₂ O ₅ /ZnO composites with enhanced photocatalytic degradation of palm oil mill effluent. <i>Materials Letters</i> , 2018, 216, 8-11.	1.3	25
52	Advancement of Photocatalytic Water Treatment Technology for Environmental Control. , 2018, , 1-28.		0
53	One-dimensional ZnO nanorods doped with neodymium for enhanced resorcinol degradation under sunlight irradiation. <i>Chemical Engineering Communications</i> , 2018, 205, 311-324.	1.5	14
54	Mechanistic investigation of visible light responsive Ag/ZnO micro/nanoflowers for enhanced photocatalytic performance and antibacterial activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 353, 171-184.	2.0	83

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55	Photocatalytic Performance of ZnO/g-C3N4 for Removal of Phenol under Simulated Sunlight Irradiation. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, .	0.7	56
56	Facile Synthesis of ZnO Flower-Like Micro/nanostructures with Enhanced Antibacterial Activity. <i>E3S Web of Conferences</i> , 2018, 65, 05013.	0.2	0
57	Fabrication of Flower-like ZnO Micro/Nanostructures for Photodegradation of Pre-treated Palm Oil Mill Effluent. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 112, 012003.	0.2	1
58	A Surfactant-Free Synthesis Technique of Coral-Like ZnO Hierarchical Structures for Photocatalytic Degradation of Resorcinol under UV Irradiation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 112, 012002.	0.2	0
59	Evaluation of photocatalytic fuel cell (PFC) for electricity production and simultaneous degradation of methyl green in synthetic and real greywater effluents. <i>Journal of Environmental Management</i> , 2018, 228, 383-392.	3.8	51
60	Photocatalytic degradation of organic pollutants using surfactant-free hydrothermally prepared flower-like BiOBr hierarchical structures under visible light irradiation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 151, 012022.	0.2	1
61	Visible light responsive flower-like ZnO in photocatalytic antibacterial mechanism towards <i>Enterococcus faecalis</i> and <i>Micrococcus luteus</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 187, 66-75.	1.7	52
62	Spindly BiFeO ₃ Nanoparticles for Photodegradation of Organic Pollutants Under a Compact Fluorescent Lamp. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 151, 012021.	0.2	4
63	Facile fabrication of hierarchical porous ZnO/Fe ₃ O ₄ composites with enhanced magnetic, photocatalytic and antibacterial properties. <i>Materials Letters</i> , 2018, 228, 207-211.	1.3	27
64	Surfactant-free synthesis of ZnO micro/nanoflowers with efficient photocatalytic antibacterial performance. <i>Materials Letters</i> , 2017, 195, 34-36.	1.3	10
65	A newly emerging visible light-responsive BiFeO ₃ perovskite for photocatalytic applications: A mini review. <i>Materials Research Bulletin</i> , 2017, 90, 15-30.	2.7	151
66	Surfactant-free hydrothermal synthesis of flower-like BiOBr hierarchical structure and its visible light-driven catalytic activity towards the degradation of sunset yellow. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 13236-13246.	1.1	11
67	Hydrothermal synthesis of europium-doped flower-like ZnO hierarchical structures with enhanced sunlight photocatalytic degradation of phenol. <i>Materials Letters</i> , 2016, 182, 223-226.	1.3	44
68	A review on photocatalytic application of g-C ₃ N ₄ /semiconductor (CNS) nanocomposites towards the erasure of dyeing wastewater. <i>Materials Science in Semiconductor Processing</i> , 2016, 47, 62-84.	1.9	178
69	Fabrication of ZnO nanorods via a green hydrothermal method and their light driven catalytic activity towards the erasure of phenol compounds. <i>Materials Letters</i> , 2016, 167, 141-144.	1.3	30
70	An efficient Ag ₂ SO ₄ -deposited ZnO in photocatalytic removal of indigo carmine and phenol under outdoor light irradiation. <i>Desalination and Water Treatment</i> , 2016, 57, 14227-14240.	1.0	12
71	Surfactant-free precipitation synthesis, growth mechanism and photocatalytic studies of ZnO nanostructures. <i>Materials Letters</i> , 2015, 160, 259-262.	1.3	12
72	Sunlight responsive WO ₃ /ZnO nanorods for photocatalytic degradation and mineralization of chlorinated phenoxyacetic acid herbicides in water. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 34-44.	5.0	94

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73	Surfactant-free precipitation synthesis of lithium-doped ZnO nanopetals for degradation of phenol under UV-visible light. <i>Materials Letters</i> , 2015, 154, 5-7.	1.3	9
74	Preparation of cerium-doped ZnO hierarchical micro/nanospheres with enhanced photocatalytic performance for phenol degradation under visible light. <i>Journal of Molecular Catalysis A</i> , 2015, 409, 1-10.	4.8	77
75	Surfactant-free solvothermal synthesis of ZnO nanorods for effective sunlight degradation of 2,4-dichlorophenol. <i>Materials Letters</i> , 2015, 140, 51-54.	1.3	11
76	Preparation of flower-like ZnO hierarchical structures for photodegradation of phenol under UV irradiation. <i>Research on Chemical Intermediates</i> , 2015, 41, 2489-2502.	1.3	12
77	Response Surface Methodology Applied for Phenol Photocatalytic Degradation in TiO ₂ /P25/Activated Carbon. <i>Current Environmental Engineering</i> , 2014, 1, 17-22.	0.6	0
78	Photocatalytic TiO ₂ /Carbon Nanotube Nanocomposites for Environmental Applications: An Overview and Recent Developments. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2014, 22, 471-509.	1.0	43
79	Enhanced sunlight photocatalytic performance over Nb ₂ O ₅ /ZnO nanorod composites and the mechanism study. <i>Applied Catalysis A: General</i> , 2014, 471, 126-135.	2.2	108
80	Preparation of rare earth-doped ZnO hierarchical micro/nanospheres and their enhanced photocatalytic activity under visible light irradiation. <i>Ceramics International</i> , 2014, 40, 5431-5440.	2.3	109
81	Sunlight photocatalytic activity enhancement and mechanism of novel europium-doped ZnO hierarchical micro/nanospheres for degradation of phenol. <i>Applied Catalysis B: Environmental</i> , 2014, 148-149, 258-268.	10.8	150
82	Transition metal oxide loaded ZnO nanorods: Preparation, characterization and their UV-visible photocatalytic activities. <i>Separation and Purification Technology</i> , 2014, 132, 378-387.	3.9	76
83	Preparation and photocatalytic properties of visible light-driven samarium-doped ZnO nanorods. <i>Ceramics International</i> , 2013, 39, 5833-5843.	2.3	144
84	Photocatalytic performance of novel samarium-doped spherical-like ZnO hierarchical nanostructures under visible light irradiation for 2,4-dichlorophenol degradation. <i>Journal of Colloid and Interface Science</i> , 2013, 401, 40-49.	5.0	104
85	Efficient Photodegradation of Endocrine-Disrupting Chemicals with Bi ₂ O ₃ -ZnO Nanorods Under a Compact Fluorescent Lamp. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	1.1	25
86	Efficient photodegradation of resorcinol with Ag ₂ O/ZnO nanorods heterostructure under a compact fluorescent lamp irradiation. <i>Chemical Papers</i> , 2013, 67, .	1.0	35
87	Investigation on visible-light photocatalytic degradation of 2,4-dichlorophenoxyacetic acid in the presence of MoO ₃ /ZnO nanorod composites. <i>Journal of Molecular Catalysis A</i> , 2013, 370, 123-131.	4.8	80
88	ZnO nanorods surface-decorated by WO ₃ nanoparticles for photocatalytic degradation of endocrine disruptors under a compact fluorescent lamp. <i>Ceramics International</i> , 2013, 39, 2343-2352.	2.3	56
89	Self-assembly fabrication of ZnO hierarchical micro/nanospheres for enhanced photocatalytic degradation of endocrine-disrupting chemicals. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1542-1550.	1.9	48
90	Green hydrothermal synthesis of ZnO nanotubes for photocatalytic degradation of methylparaben. <i>Materials Letters</i> , 2013, 93, 423-426.	1.3	41

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91	Degrading two endocrine-disrupting chemicals from water by UV irradiation with the presence of nanophotocatalysts. <i>Desalination and Water Treatment</i> , 2013, 51, 3505-3520.	1.0	13
92	Fabrication of erbium-doped spherical-like ZnO hierarchical nanostructures with enhanced visible light-driven photocatalytic activity. <i>Materials Letters</i> , 2013, 91, 1-4.	1.3	52
93	Photocatalytic degradation of resorcinol, an endocrine disrupter, by TiO ₂ and ZnO suspensions. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1097-1106.	1.2	40
94	Degrading Endocrine Disrupting Chemicals from Wastewater by Photocatalysis: A Review. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-23.	1.4	109
95	Degradation of wastewaters containing organic dyes photocatalysed by zinc oxide: a review. <i>Desalination and Water Treatment</i> , 2012, 41, 131-169.	1.0	359
96	Optimizing photocatalytic degradation of phenol by TiO ₂ /GAC using response surface methodology. <i>Korean Journal of Chemical Engineering</i> , 2011, 28, 84-92.	1.2	49
97	Parameter effect on photocatalytic degradation of phenol using TiO ₂ -P25/activated carbon (AC). <i>Korean Journal of Chemical Engineering</i> , 2010, 27, 1109-1116.	1.2	77
98	WO ₃ /Nb ₂ O ₅ Nanoparticles-Decorated Hierarchical Porous ZnO Microspheres for Enhanced Photocatalytic Degradation of Palm Oil Mill Effluent and Simultaneous Production of Biogas. <i>Key Engineering Materials</i> , 0, 821, 379-385.	0.4	7