

Sze-Mun Lam

List of Publications by Year in descending order

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103
papers

4,431
citations

76031

42
h-index

124990

64
g-index

103
all docs

103
docs citations

103
times ranked

4690
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the effects of various synthesis routes on morphological, optical, photoelectrochemical and photocatalytic properties of single-phase perovskite BiFeO ₃ . Journal of Physics and Chemistry of Solids, 2022, 160, 110342.	1.9	27
2	A review on recent disposal of hazardous sewage sludge via anaerobic digestion and novel composting. Journal of Hazardous Materials, 2022, 423, 126995.	6.5	76
3	Ameliorating Cu ²⁺ reduction in microbial fuel cell with Z-scheme BiFeO ₃ decorated on flower-like ZnO composite photocathode. Chemosphere, 2022, 287, 132384.	4.2	45
4	MXenes and their composites for potential antimicrobial applications. , 2022, , 525-551.		3
5	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. Journal of Environmental Chemical Engineering, 2022, 10, 107308.	3.3	7
6	Ameliorated photodegradation performance of polyethylene and polystyrene films incorporated with ZnO-PVP catalyst. Journal of Environmental Chemical Engineering, 2022, 10, 107594.	3.3	32
7	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. Optik, 2022, 260, 169098.	1.4	17
8	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. Environmental Research, 2022, 212, 113394.	3.7	59
9	Recent progress in Ti ₃ C ₂ T _x -based materials: From fundamentals to emerging applications. Materials Science in Semiconductor Processing, 2022, 148, 106835.	1.9	9
10	Sunlight-driven photocatalytic fuel cell with WO ₃ /rod-like ZnO/Zn photoanode for food wastewater treatment and electricity production. AIP Conference Proceedings, 2022, , .	0.3	0
11	Response surface approach for visible-light-driven photodegradation of sunset yellow over flower-like BiOBr hierarchical structures. AIP Conference Proceedings, 2022, , .	0.3	0
12	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. Journal of Environmental Chemical Engineering, 2022, 10, 108284.	3.3	61
13	Novel sequential flow baffled microalgal-bacterial photobioreactor for enhancing nitrogen assimilation into microalgal biomass whilst bioremediating nutrient-rich wastewater simultaneously. Journal of Hazardous Materials, 2021, 409, 124455.	6.5	49
14	Green synthesis of Fe-ZnO nanoparticles with improved sunlight photocatalytic performance for polyethylene film deterioration and bacterial inactivation. Materials Science in Semiconductor Processing, 2021, 123, 105574.	1.9	84
15	The enhancement of photocatalytic CO ₂ reduction by the <i>in situ</i> growth of TiO ₂ on Ti ₃ C ₂ MXene. Catalysis Science and Technology, 2021, 11, 1602-1614.	2.1	65
16	Surface decorated coral-like magnetic BiFeO ₃ with Au nanoparticles for effective sunlight photodegradation of 2,4-D and E. coli inactivation. Journal of Molecular Liquids, 2021, 326, 115372.	2.3	71
17	Insight into the influence of noble metal decorated on BiFeO ₃ for 2,4-dichlorophenol and real herbicide wastewater treatment under visible light. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 614, 126138.	2.3	41
18	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. Separation and Purification Technology, 2021, 265, 118495.	3.9	69

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19	Fabrication of Z-scheme rod-like Ag ₂ Mo ₂ O ₇ /g-C ₃ N ₄ for phenol degradation under IO ₄ ²⁻ /visible light system. <i>Materials Letters</i> , 2021, 294, 129791.	1.3	8
20	<i>Punica granatum</i> 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
21	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
22	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
23	Synthesis of Z-scheme BiOCl/CuFe ₂ O ₄ Composite with Enhanced Visible Light Photodegradation of Palm Oil Mill Effluent. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 945, 012034.	0.2	2
24	Magnetic-Based Photocatalyst for Antibacterial Application and Catalytic Performance. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , 195-215.	0.3	2
25	Magnetically recoverable Pd-loaded BiFeO ₃ microcomposite with enhanced visible light photocatalytic performance for pollutant, bacterial and fungal elimination. <i>Separation and Purification Technology</i> , 2020, 236, 116195.	3.9	78
26	Explicating charge transfer dynamics in anodic TiO ₂ /ZnO/Zn photocatalytic fuel cell for ameliorated palm oil mill effluent treatment and synchronized energy generation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 391, 112353.	2.0	35
27	Greywater and bacteria removal with synchronized energy production in photocatalytic fuel cell based on anodic TiO ₂ /ZnO/Zn and cathodic CuO/Cu. <i>Chemosphere</i> , 2020, 245, 125565.	4.2	47
28	In situ acid fabrication of g-C ₃ N ₄ photocatalyst with improved adsorptive and photocatalytic properties. <i>Materials Letters</i> , 2020, 261, 126990.	1.3	13
29	Bioinspired green synthesis of ZnO structures with enhanced visible light photocatalytic activity. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1144-1158.	1.1	22
30	<i>Musa acuminata</i> peel extract mediated eco-friendly synthesis of solar light-active ZnO nanosponge for enhanced dyeing wastewater degradation. <i>E3S Web of Conferences</i> , 2020, 167, 01003.	0.2	2
31	Synchronous organics removal and copper reduction in semiconductor wastewater with energy recuperation via photocatalytic fuel cell. <i>E3S Web of Conferences</i> , 2020, 167, 01002.	0.2	2
32	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. <i>Materials Letters</i> , 2020, 275, 128112.	1.3	29
33	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. <i>Separation and Purification Technology</i> , 2020, 250, 117186.	3.9	92
34	Fabrication of novel visible light-driven Nd-doped BiOBr nanosheets with enhanced photocatalytic performance for palm oil mill effluent degradation and <i>Escherichia coli</i> inactivation. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 140, 109382.	1.9	25
35	A Z-scheme WO ₃ loaded-hexagonal rod-like ZnO/Zn photocatalytic fuel cell for chemical energy recuperation from food wastewater treatment. <i>Applied Surface Science</i> , 2020, 514, 145945.	3.1	69
36	Valorization of exo-microbial fermented coconut endosperm waste by black soldier fly larvae for simultaneous biodiesel and protein productions. <i>Environmental Research</i> , 2020, 185, 109458.	3.7	50

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37	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
38	Citrullus lanatus mediated-green synthesis of Ag/ZnO composite for photocatalytic degradation of 2,4-dichlorophenoxyacetic acid. AIP Conference Proceedings, 2019, , .	0.3	4
39	Investigation of By-products from Acetylene Manufacturing for Acid Mine Drainage Remediation. Mine Water and the Environment, 2019, 38, 757-766.	0.9	5
40	Concurrent palm oil mill effluent degradation and power production by photocatalytic fuel cell. AIP Conference Proceedings, 2019, , .	0.3	2
41	Green synthesis of ZnO nanoparticles using Hibiscus rosa-sinensis leaves extracts and evaluation of their photocatalytic activities. AIP Conference Proceedings, 2019, , .	0.3	5
42	Green synthesis of magnetic Fe-doped ZnO nanoparticles via Hibiscus rosa-sinensis leaf extracts for boosted photocatalytic, antibacterial and antifungal activities. Materials Letters, 2019, 242, 103-106.	1.3	64
43	Boosting visible light photocatalytic and antibacterial performance by decoration of silver on magnetic spindle-like bismuth ferrite. Materials Science in Semiconductor Processing, 2019, 101, 103-115.	1.9	64
44	Advancement of Photocatalytic Water Treatment Technology for Environmental Control. , 2019, , 1719-1746.		0
45	Shape-Controlled Fabrication of ZnO Architectures for Palm Oil Mill Effluent Degradation. Journal of Nanoscience and Nanotechnology, 2019, 19, 5271-5278.	0.9	3
46	Facile synthesis of novel ZnO/Nd-doped BiOBr composites with boosted visible light photocatalytic degradation of phenol. Materials Letters, 2019, 248, 20-23.	1.3	29
47	Constructing magnetic Pt-loaded BiFeO ₃ nanocomposite for boosted visible light photocatalytic and antibacterial activities. Environmental Science and Pollution Research, 2019, 26, 10204-10218.	2.7	35
48	Photocatalytic Fuel Cell Using TiO ₂ /ZnO/Zn Photoanode for Greywater and Bacteria Abatements with Power Generation Concomitantly. Key Engineering Materials, 2019, 821, 366-371.	0.4	2
49	Photocatalytic degradation of organic pollutants using magnetic Pd-doped BiFeO ₃ composites under visible light irradiation. AIP Conference Proceedings, 2019, , .	0.3	2
50	Preparation of Nb ₂ O ₅ -decorated hierarchical porous ZnO microspheres with enhanced photocatalytic degradation of palm oil mill effluent. Journal of Materials Science: Materials in Electronics, 2019, 30, 1739-1750.	1.1	11
51	Wet chemically synthesized ZnO structures for photodegradation of pre-treated palm oil mill effluent and antibacterial activity. Ceramics International, 2019, 45, 1868-1880.	2.3	55
52	Influence of PVP surfactant on the morphology and properties of ZnO micro/nanoflowers for dye mixtures and textile wastewater degradation. Materials Chemistry and Physics, 2018, 212, 35-43.	2.0	73
53	Hydrothermal synthesis of coral-like palladium-doped BiFeO ₃ nanocomposites with enhanced photocatalytic and magnetic properties. Materials Letters, 2018, 224, 1-4.	1.3	20
54	Sequencing coagulation-photodegradation treatment of Malachite Green dye and textile wastewater through ZnO micro/nanoflowers. Chemical Engineering Communications, 2018, 205, 1143-1156.	1.5	23

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55	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
56	A facile route for fabrication of hierarchical porous Nb ₂ O ₅ /ZnO composites with enhanced photocatalytic degradation of palm oil mill effluent. Materials Letters, 2018, 216, 8-11.	1.3	25
57	Advancement of Photocatalytic Water Treatment Technology for Environmental Control. , 2018, , 1-28.		0
58	One-dimensional ZnO nanorods doped with neodymium for enhanced resorcinol degradation under sunlight irradiation. Chemical Engineering Communications, 2018, 205, 311-324.	1.5	14
59	Mechanistic investigation of visible light responsive Ag/ZnO micro/nanoflowers for enhanced photocatalytic performance and antibacterial activity. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 171-184.	2.0	83
60	Photocatalytic Performance of ZnO/g-C ₃ N ₄ for Removal of Phenol under Simulated Sunlight Irradiation. Journal of Environmental Engineering, ASCE, 2018, 144, .	0.7	56
61	Facile Synthesis of ZnO Flower-Like Micro/nanostructures with Enhanced Antibacterial Activity. E3S Web of Conferences, 2018, 65, 05013.	0.2	0
62	Fabrication of Flower-like ZnO Micro/Nanostructures for Photodegradation of Pre-treated Palm Oil Mill Effluent. IOP Conference Series: Earth and Environmental Science, 2018, 112, 012003.	0.2	1
63	A Surfactant-Free Synthesis Technique of Coral-Like ZnO Hierarchical Structures for Photocatalytic Degradation of Resorcinol under UV Irradiation. IOP Conference Series: Earth and Environmental Science, 2018, 112, 012002.	0.2	0
64	Evaluation of photocatalytic fuel cell (PFC) for electricity production and simultaneous degradation of methyl green in synthetic and real greywater effluents. Journal of Environmental Management, 2018, 228, 383-392.	3.8	51
65	Photocatalytic degradation of organic pollutants using surfactant-free hydrothermally prepared flower-like BiOBr hierarchical structures under visible light irradiation. IOP Conference Series: Earth and Environmental Science, 2018, 151, 012022.	0.2	1
66	Visible light responsive flower-like ZnO in photocatalytic antibacterial mechanism towards Enterococcus faecalis and Micrococcus luteus. Journal of Photochemistry and Photobiology B: Biology, 2018, 187, 66-75.	1.7	52
67	Spindly BiFeO ₃ Nanoparticles for Photodegradation of Organic Pollutants Under a Compact Fluorescent Lamp. IOP Conference Series: Earth and Environmental Science, 2018, 151, 012021.	0.2	4
68	Facile fabrication of hierarchical porous ZnO/Fe ₃ O ₄ composites with enhanced magnetic, photocatalytic and antibacterial properties. Materials Letters, 2018, 228, 207-211.	1.3	27
69	Surfactant-free synthesis of ZnO micro/nanoflowers with efficient photocatalytic antibacterial performance. Materials Letters, 2017, 195, 34-36.	1.3	10
70	A newly emerging visible light-responsive BiFeO ₃ perovskite for photocatalytic applications: A mini review. Materials Research Bulletin, 2017, 90, 15-30.	2.7	151
71	Surfactant-free hydrothermal synthesis of flower-like BiOBr hierarchical structure and its visible light-driven catalytic activity towards the degradation of sunset yellow. Journal of Materials Science: Materials in Electronics, 2017, 28, 13236-13246.	1.1	11
72	Hydrothermal synthesis of europium-doped flower-like ZnO hierarchical structures with enhanced sunlight photocatalytic degradation of phenol. Materials Letters, 2016, 182, 223-226.	1.3	44

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73	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
74	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
75	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
76	Surfactant-free precipitation synthesis, growth mechanism and photocatalytic studies of ZnO nanostructures. <i>Materials Letters</i> , 2015, 160, 259-262.	1.3	12
77	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
78	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
79	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
80	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
81	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
82	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
83	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
84	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
85	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
86	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
87	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
88	Preparation and photocatalytic properties of visible light-driven samarium-doped ZnO nanorods. <i>Ceramics International</i> , 2013, 39, 5833-5843.	2.3	144
89	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
90	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

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91	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
92	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
93	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
94	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
95	Green hydrothermal synthesis of ZnO nanotubes for photocatalytic degradation of methylparaben. <i>Materials Letters</i> , 2013, 93, 423-426.	1.3	41
96	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
97	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
98	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
99	Degrading Endocrine Disrupting Chemicals from Wastewater by Photocatalysis: A Review. <i>International Journal of Photoenergy</i> , 2012, 2012, 1-23.	1.4	109
100	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
101	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
102	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
103	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