

Meng Nan Chong

List of Publications by Year in descending order

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72
papers

8,077
citations

126858

33
h-index

88593

70
g-index

74
all docs

74
docs citations

74
times ranked

10894
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in photocatalytic degradation of chlorinated phenols and reduction of heavy metal ions in water by TiO ₂ -based catalysts. <i>International Materials Reviews</i> , 2022, 67, 47-64.	9.4	51
2	Controlled synthesis of high-performance silver/silver orthophosphate (Ag/Ag ₃ PO ₄) interfaced photoanode with porous tetrahedrons layer for photoelectrochemical water splitting. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107161.	3.3	3
3	Distinctive correlations between cell concentration and cell size to microalgae biomass under increasing carbon dioxide. <i>Bioresource Technology</i> , 2022, 347, 126733.	4.8	13
4	Unravelling the roles of H ⁺ , Na ⁺ and K ⁺ cations over the self-photorechargeability of a Pt-mediated MoO ₃ photoanode-driven photoelectrochemical system: Experimental and DFT study. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107252.	3.3	1
5	Catalysing electrowinning of copper from E-waste: A critical review. <i>Chemosphere</i> , 2022, 298, 134340.	4.2	11
6	Data-driven and validated dimensional analysis for rational scale-up of a dual-chamber microbial fuel cell system for water-energy nexus exploitation. <i>Bioresource Technology</i> , 2022, 354, 127233.	4.8	1
7	Alkaline earth atom doping-induced changes in the electronic and magnetic properties of graphene: a density functional theory study. <i>RSC Advances</i> , 2021, 11, 6268-6283.	1.7	10
8	Understanding the synergistic role of Pt-mediated MoO ₃ photoanode with self-photorechargeability during illuminated and non-illuminated conditions: A combined experimental and density functional theory study. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 120, 381-390.	2.7	5
9	Assessment of Pre-Treatment Techniques for Coarse Printed Circuit Boards (PCBs) Recycling. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1134.	0.8	14
10	Determining the structure-antibacterial properties relationship and bacterial inactivation kinetics in different morphological-controlled ZnO nanoarchitectures for wastewater applications. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106646.	3.3	3
11	Synergistic effects of dual-electrocatalyst FeOOH/NiOOH thin films as effective surface photogenerated hole extractors on a novel hierarchical heterojunction photoanode structure for solar-driven photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2020, 380, 122501.	6.6	30
12	Multi-dimensional zinc oxide (ZnO) nanoarchitectures as efficient photocatalysts: What is the fundamental factor that determines photoactivity in ZnO?. <i>Journal of Hazardous Materials</i> , 2020, 381, 120958.	6.5	66
13	Tuning of reduced graphene oxide thin film as an efficient electron conductive interlayer in a proven heterojunction photoanode for solar-driven photoelectrochemical water splitting. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152721.	2.8	11
14	Impacts of morphological-controlled ZnO nanoarchitectures on aerobic microbial communities during real wastewater treatment in an aerobic-photocatalytic system. <i>Environmental Pollution</i> , 2020, 259, 113867.	3.7	6
15	Exploration of a novel Type II 1D-ZnO nanorods/BiVO ₄ heterojunction photocatalyst for water depollution. <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 83, 303-314.	2.9	34
16	Facile synthesis and characterisation of functional MoO ₃ photoanode with self-photorechargeability. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155624.	2.8	13
17	A Type II n-n staggered orthorhombic V ₂ O ₅ /monoclinic clinobisvanite BiVO ₄ heterojunction photoanode for photoelectrochemical water oxidation: Fabrication, characterisation and experimental validation. <i>Chemical Engineering Journal</i> , 2019, 364, 177-185.	6.6	81
18	Life-cycle assessment and life-cycle cost analysis of decentralised rainwater harvesting, greywater recycling and hybrid rainwater-greywater systems. <i>Journal of Cleaner Production</i> , 2019, 229, 1211-1224.	4.6	43

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19	Synthesis and characterisation of a novel bilayer tungsten trioxide nanojunction with different crystal growth orientation for improved photoactivity under visible light irradiation. <i>Journal of Alloys and Compounds</i> , 2018, 749, 268-275.	2.8	6
20	Quantification of mains water savings from decentralised rainwater, greywater, and hybrid rainwater-greywater systems in tropical climatic conditions. <i>Journal of Cleaner Production</i> , 2018, 176, 946-958.	4.6	30
21	Assessment of greywater quality and performance of a pilot-scale decentralised hybrid rainwater-greywater system. <i>Journal of Cleaner Production</i> , 2018, 172, 81-91.	4.6	35
22	Electrochemical oxidation remediation of real wastewater effluents – A review. <i>Chemical Engineering Research and Design</i> , 2018, 113, 48-67.	2.7	515
23	A review of greywater recycling related issues: Challenges and future prospects in Malaysia. <i>Journal of Cleaner Production</i> , 2018, 171, 17-29.	4.6	75
24	E-waste in the international context – A review of trade flows, regulations, hazards, waste management strategies and technologies for value recovery. <i>Waste Management</i> , 2018, 82, 258-275.	3.7	335
25	Electrochemically-synthesized tungstate nanocomposites $\text{W}^{3+}\text{-WO}_3/\text{CuWO}_4$ and $\text{W}^{3+}\text{-WO}_3/\text{NiWO}_4$ thin films with improved band gap and photoactivity for solar-driven photoelectrochemical water oxidation. <i>Journal of Alloys and Compounds</i> , 2018, 762, 90-97.	2.8	24
26	Employing electrochemical reduced graphene oxide as a co-catalyst for synergistically improving the photoelectrochemical performance of nanostructured hematite thin films. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 71, 510-517.	2.7	10
27	Longitudinal assessment of rainwater quality under tropical climatic conditions in enabling effective rainwater harvesting and reuse schemes. <i>Journal of Cleaner Production</i> , 2017, 143, 64-75.	4.6	34
28	Physicochemical stability of calcium alginate beads immobilizing TiO_2 nanoparticles for removal of cationic dye under UV irradiation. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	28
29	Readily Wash-Off Road Dust and Associated Heavy Metals on Motorways. <i>Water, Air, and Soil Pollution</i> , 2017, 228, 1.	1.1	62
30	A novel ternary nanostructured carbonaceous-metal-semiconductor $\text{eRGO}/\text{NiO}/\text{Fe}_2\text{O}_3$ heterojunction photoanode with enhanced charge transfer properties for photoelectrochemical water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2017, 169, 236-244.	3.0	29
31	Prospects of electrochemically synthesized hematite photoanodes for photoelectrochemical water splitting: A review. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2017, 33, 54-82.	5.6	101
32	Design and CFD modelling of the anodic chamber of a continuous PhotoFuelCell reactor for water treatment. <i>Chemical Engineering Research and Design</i> , 2017, 111, 449-461.	2.7	9
33	Morphological tunable three-dimensional flower-like zinc oxides with high photoactivity for targeted environmental Remediation: Degradation of emerging micropollutant and radicals trapping experiments. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 81, 206-217.	2.7	18
34	Synthesis and Characterization of a Novel Ternary Hematite Nanocomposites Structure with Fullerene and 2D-Electrochemical Reduced Graphene Oxide for Superior Photoelectrochemical Performance. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600216.	1.2	9
35	In situ Ni-doping during cathodic electrodeposition of hematite for excellent photoelectrochemical performance of nanostructured nickel oxide-hematite p-n junction photoanode. <i>Applied Surface Science</i> , 2017, 392, 144-152.	3.1	52
36	Prospects of hybrid rainwater-greywater decentralised system for water recycling and reuse: A review. <i>Journal of Cleaner Production</i> , 2017, 142, 3014-3027.	4.6	83

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37	Effect of Deposition Time on the Photoelectrochemical Properties of Cupric Oxide Thin Films Synthesized via Electrodeposition Method. MATEC Web of Conferences, 2016, 60, 01001.	0.1	4
38	Bathroom greywater recycling using polyelectrolyte-complex bilayer membrane: Advanced study of membrane structure and treatment efficiency. Carbohydrate Polymers, 2016, 148, 161-170.	5.1	31
39	Understanding the synergistic between optimum dopant loading and charge transfer kinetics in platinum-mediated nanostructured hematite thin films. Journal of the Taiwan Institute of Chemical Engineers, 2016, 66, 249-257.	2.7	15
40	Effects of electrodeposition synthesis parameters on the photoactivity of nanostructured tungsten trioxide thin films: Optimisation study using response surface methodology. Journal of the Taiwan Institute of Chemical Engineers, 2016, 61, 196-204.	2.7	21
41	Evaluation of physicochemical methods in enhancing the adsorption performance of natural zeolite as low-cost adsorbent of methylene blue dye from wastewater. Journal of Cleaner Production, 2016, 118, 197-209.	4.6	127
42	Synthesis, characterisation and application of TiO ₂ @zeolite nanocomposites for the advanced treatment of industrial dye wastewater. Journal of the Taiwan Institute of Chemical Engineers, 2015, 50, 288-296.	2.7	92
43	Effects of annealing temperature on the physicochemical, optical and photoelectrochemical properties of nanostructured hematite thin films prepared via electrodeposition method. Materials Research Bulletin, 2015, 69, 71-77.	2.7	48
44	Prospects of metal-insulator-semiconductor (MIS) nanojunction structures for enhanced hydrogen evolution in photoelectrochemical cells: A review. Nano Energy, 2015, 12, 347-373.	8.2	73
45	Hybridising nitrogen doped titania with kaolinite: A feasible catalyst for a semi-continuous photo-degradation reactor system. Chemical Engineering Journal, 2015, 279, 939-947.	6.6	8
46	Decentralized light greywater treatment using aerobic digestion and hydrogen peroxide disinfection for non-potable reuse. Journal of Cleaner Production, 2015, 99, 305-311.	4.6	41
47	Electrochemically synthesized tungsten trioxide nanostructures for photoelectrochemical water splitting: Influence of heat treatment on physicochemical properties, photocurrent densities and electron shuttling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 484, 297-303.	2.3	20
48	Evaluation of Titanium dioxide photocatalytic technology for the treatment of reactive Black 5 dye in synthetic and real greywater effluents. Journal of Cleaner Production, 2015, 89, 196-202.	4.6	93
49	Nanostructured Tungsten Trioxide Thin Films Synthesized for Photoelectrocatalytic Water Oxidation: A review. ChemSusChem, 2014, 7, 2974-2997.	3.6	194
50	Basic Psychological Needs Influencing the Regularity of Domestic Rainwater Tank Maintenance. Water Resources Management, 2014, 28, 4059-4073.	1.9	4
51	Urban stormwater harvesting and reuse: a probe into the chemical, toxicology and microbiological contaminants in water quality. Environmental Monitoring and Assessment, 2013, 185, 6645-6652.	1.3	39
52	Evaluation of plumbed rainwater tanks in households for sustainable water resource management: a real-time monitoring study. Journal of Cleaner Production, 2013, 42, 204-214.	4.6	58
53	Assessing decentralised wastewater treatment technologies: correlating technology selection to system robustness, energy consumption and GHG emission. Journal of Water and Climate Change, 2013, 4, 338-347.	1.2	29
54	Sol-Gel Synthesis of Inorganic Mesostructured Composite Photocatalyst for Water Purification: An Insight Into the Synthesis Fundamentals, Reaction, and Binding Mechanisms. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 68-75.	0.6	12

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55	Prevalence of human pathogens and indicators in stormwater runoff in Brisbane, Australia. <i>Water Research</i> , 2012, 46, 6652-6660.	5.3	125
56	Feasibility study on the application of advanced oxidation technologies for decentralised wastewater treatment. <i>Journal of Cleaner Production</i> , 2012, 35, 230-238.	4.6	105
57	Examining Biophysical and Socio-Demographic Factors across Mandated Tank Users in Urban Australia: A Linking Step towards Achieving Best Practices. <i>Water Resources Management</i> , 2012, 26, 1983-1998.	1.9	9
58	Photocatalytic treatment of high concentration carbamazepine in synthetic hospital wastewater. <i>Journal of Hazardous Materials</i> , 2012, 199-200, 135-142.	6.5	85
59	Urban stormwater quality monitoring: From sampling to water quality analysis. , 2011, , .		3
60	Evaluating the photodegradation of Carbamazepine in a sequential batch photoreactor system: Impacts of effluent organic matter and inorganic ions. <i>Chemical Engineering Journal</i> , 2011, 174, 595-602.	6.6	48
61	Using H-titanate nanofiber catalysts for water disinfection: Understanding and modelling of the inactivation kinetics and mechanisms. <i>Chemical Engineering Science</i> , 2011, 66, 6525-6535.	1.9	13
62	Bacterial inactivation kinetics of a photo-disinfection system using novel titania-impregnated kaolinite photocatalyst. <i>Chemical Engineering Journal</i> , 2011, 171, 16-23.	6.6	58
63	An integrated MBR–TiO ₂ photocatalysis process for the removal of Carbamazepine from simulated pharmaceutical industrial effluent. <i>Bioresource Technology</i> , 2011, 102, 7012-7015.	4.8	84
64	Evaluation of the physical properties and photodegradation ability of titania nanocrystalline impregnated onto modified kaolin. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 201-209.	2.2	35
65	Bacterial inactivation kinetics, regrowth and synergistic competition in a photocatalytic disinfection system using anatase titanate nanofiber catalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 214, 1-9.	2.0	30
66	Response surface optimization of photocatalytic process for degradation of Congo Red using H-titanate nanofiber catalyst. <i>Chemical Engineering Journal</i> , 2010, 156, 278-285.	6.6	44
67	Recent developments in photocatalytic water treatment technology: A review. <i>Water Research</i> , 2010, 44, 2997-3027.	5.3	4,343
68	Synthesis and characterisation of novel titania impregnated kaolinite nano-photocatalyst. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 233-242.	2.2	109
69	Optimisation of an annular photoreactor process for degradation of Congo Red using a newly synthesized titania impregnated kaolinite nano-photocatalyst. <i>Separation and Purification Technology</i> , 2009, 67, 355-363.	3.9	116
70	Application of H-titanate nanofibers for degradation of Congo Red in an annular slurry photoreactor. <i>Chemical Engineering Journal</i> , 2009, 150, 49-54.	6.6	64
71	A new approach to optimise an annular slurry photoreactor system for the degradation of Congo Red: Statistical analysis and modelling. <i>Chemical Engineering Journal</i> , 2009, 152, 158-166.	6.6	44
72	Computational Fluid Dynamics Modelling of Photoelectrocatalytic Reactors for the Degradation of Formic Acid. <i>Applied Mechanics and Materials</i> , 0, 835, 386-393.	0.2	2