

Ng Kim Hoong

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,249
citations

279701

23
h-index

377752

34
g-index

34
all docs

34
docs citations

34
times ranked

798
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic water splitting for solving energy crisis: Myth, Fact or Busted?. Chemical Engineering Journal, 2021, 417, 128847.	6.6	108
2	Perspective review on Municipal Solid Waste-to-energy route: Characteristics, management strategy, and role in circular economy. Journal of Cleaner Production, 2022, 359, 131897.	4.6	103
3	Photocatalytic remediation of organic waste over Keggin-based polyoxometalate materials: A review. Chemosphere, 2021, 263, 128244.	4.2	87
4	Photocatalytic degradation of recalcitrant POME waste by using silver doped titania: Photokinetics and scavenging studies. Chemical Engineering Journal, 2016, 286, 282-290.	6.6	63
5	Microbial fuel cells for bioelectricity production from waste as sustainable prospect of future energy sector. Chemosphere, 2022, 287, 132285.	4.2	62
6	TiO ₂ and ZnO photocatalytic treatment of palm oil mill effluent (POME) and feasibility of renewable energy generation: A short review. Journal of Cleaner Production, 2019, 233, 209-225.	4.6	60
7	Catalyst-Based Synthesis of 2,5-Dimethylfuran from Carbohydrates as a Sustainable Biofuel Production Route. ACS Sustainable Chemistry and Engineering, 2022, 10, 3079-3115.	3.2	56
8	Photo-polishing of POME into CH ₄ -lean biogas over the UV-responsive ZnO photocatalyst. Chemical Engineering Journal, 2016, 300, 127-138.	6.6	50
9	Preparation of titania doped argentum photocatalyst and its photoactivity towards palm oil mill effluent degradation. Journal of Cleaner Production, 2016, 112, 1128-1135.	4.6	50
10	Photocatalytic restoration of liquid effluent from oil palm agroindustry in Malaysia using tungsten oxides catalyst. Journal of Cleaner Production, 2017, 162, 205-219.	4.6	50
11	A novel photomineralization of POME over UV-responsive TiO ₂ photocatalyst: kinetics of POME degradation and gaseous product formations. RSC Advances, 2015, 5, 53100-53110.	1.7	49
12	Restoration of liquid effluent from oil palm agroindustry in Malaysia using UV/TiO ₂ and UV/ZnO photocatalytic systems: A comparative study. Journal of Environmental Management, 2017, 196, 674-680.	3.8	42
13	Hydrogen-rich syngas production via steam reforming of palm oil mill effluent (POME) – A thermodynamics analysis. International Journal of Hydrogen Energy, 2019, 44, 20711-20724.	3.8	39
14	Harnessing renewable hydrogen-rich syngas from valorization of palm oil mill effluent (POME) using steam reforming technique. Renewable Energy, 2019, 138, 1114-1126.	4.3	39
15	Syngas from catalytic steam reforming of palm oil mill effluent: An optimization study. International Journal of Hydrogen Energy, 2019, 44, 9220-9236.	3.8	37
16	Noble-metal-free metallic MoC combined with CdS for enhanced visible-light-driven photocatalytic hydrogen evolution. Journal of Cleaner Production, 2021, 322, 129018.	4.6	36
17	Facile synthesis of CaFe ₂ O ₄ for visible light driven treatment of polluting palm oil mill effluent: Photokinetic and scavenging study. Science of the Total Environment, 2019, 661, 522-530.	3.9	33
18	Optimization of photocatalytic degradation of palm oil mill effluent in UV/ZnO system based on response surface methodology. Journal of Environmental Management, 2016, 184, 487-493.	3.8	31

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19	Photocatalytic degradation of palm oil mill effluent over ultraviolet-responsive titania: Successive assessments of significance factors and process optimization. <i>Journal of Cleaner Production</i> , 2017, 142, 2073-2083.	4.6	31
20	Ethylene production from ethanol dehydration over mesoporous SBA-15 catalyst derived from palm oil clinker waste. <i>Journal of Cleaner Production</i> , 2020, 249, 119323.	4.6	30
21	Bio-hydrogen production from steam reforming of liquid biomass wastes and biomass-derived oxygenates: A review. <i>Fuel</i> , 2022, 311, 122623.	3.4	29
22	A review on dry-based and wet-based catalytic sulphur dioxide (SO ₂) reduction technologies. <i>Journal of Hazardous Materials</i> , 2022, 423, 127061.	6.5	28
23	Adoption of TiO ₂ -photocatalysis for palm oil mill effluent (POME) treatment: Strengths, weaknesses, opportunities, threats (SWOT) and its practicality against traditional treatment in Malaysia. <i>Chemosphere</i> , 2021, 270, 129378.	4.2	26
24	A study into syngas production from catalytic steam reforming of palm oil mill effluent (POME): A new treatment approach. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 20900-20913.	3.8	20
25	Experimental evaluation and empirical modelling of palm oil mill effluent steam reforming. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 15784-15793.	3.8	18
26	Integration of machine learning-based prediction for enhanced Model's generalization: Application in photocatalytic polishing of palm oil mill effluent (POME). <i>Environmental Pollution</i> , 2020, 267, 115500.	3.7	17
27	Reduction of hazardous SO ₂ into elemental sulphur over chicken eggshells-derived calcium-based redox agent: A systematic step-by-step thermodynamic analysis and process validations. <i>Journal of Cleaner Production</i> , 2021, 278, 123927.	4.6	12
28	Elimination of energy-consuming mechanical stirring: Development of auto-suspending ZnO-based photocatalyst for organic wastewater treatment. <i>Journal of Hazardous Materials</i> , 2021, 409, 124532.	6.5	10
29	Phototreatment of Palm Oil Mill Effluent (POME) over Cu/TiO ₂ Photocatalyst. <i>Bulletin of Chemical Reaction Engineering and Catalysis</i> , 2014, 9, 121-127.	0.5	9
30	Biomass-derived carbon-based and silica-based materials for catalytic and adsorptive applications- An update since 2010. <i>Chemosphere</i> , 2022, 287, 132222.	4.2	8
31	Coupled porosity and heterojunction engineering: MOF-derived porous Co ₃ O ₄ embedded on TiO ₂ nanotube arrays for water remediation. <i>Chemosphere</i> , 2021, 274, 129799.	4.2	5
32	Rational construction of superhydrophobic PDMS/PTW@ cotton fabric for efficient UV/NIR light shielding. <i>Cellulose</i> , 2022, 29, 4673-4685.	2.4	5
33	Thermodynamic analysis of CaS production from various Ca-based precursors: A prequel to SO ₂ reduction mediated by CaS/CaSO ₄ redox agents. <i>Chemical Engineering Research and Design</i> , 2021, 147, 900-911.	2.7	4
34	Inhibitory effects and mechanisms of low-molecular-mass organic acids (LMMOAs) toward Cr(III) oxidation. <i>Journal of Cleaner Production</i> , 2021, 313, 127726.	4.6	2