

Lai Yee Lee

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,863
citations

331259

21
h-index

329751

37
g-index

39
all docs

39
docs citations

39
times ranked

2361
citing authors

#	ARTICLE	IF	CITATIONS
1	Review on graphene and its derivatives: Synthesis methods and potential industrial implementation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 98, 163-180.	2.7	335
2	Biochar potential evaluation of palm oil wastes through slow pyrolysis: Thermochemical characterization and pyrolytic kinetic studies. <i>Bioresource Technology</i> , 2017, 236, 155-163.	4.8	156
3	Environmental application of three-dimensional graphene materials as adsorbents for dyes and heavy metals: Review on ice-templating method and adsorption mechanisms. <i>Journal of Environmental Sciences</i> , 2019, 79, 174-199.	3.2	136
4	Adsorptive decontamination of diclofenac by three-dimensional graphene-based adsorbent: Response surface methodology, adsorption equilibrium, kinetic and thermodynamic studies. <i>Environmental Research</i> , 2019, 168, 241-253.	3.7	132
5	Review on synthesis of 3D graphene-based configurations and their adsorption performance for hazardous water pollutants. <i>Chemical Engineering Research and Design</i> , 2018, 116, 262-286.	2.7	124
6	Effective removal of Acid Blue 113 dye using overripe <i>Cucumis sativus</i> peel as an eco-friendly biosorbent from agricultural residue. <i>Journal of Cleaner Production</i> , 2016, 113, 194-203.	4.6	102
7	Ice-templated graphene oxide/chitosan aerogel as an effective adsorbent for sequestration of metanil yellow dye. <i>Bioresource Technology</i> , 2019, 274, 134-144.	4.8	99
8	Assessment of fish scales waste as a low cost and eco-friendly adsorbent for removal of an azo dye: Equilibrium, kinetic and thermodynamic studies. <i>Bioresource Technology</i> , 2017, 245, 656-664.	4.8	96
9	Adsorptive removal of diclofenac by graphene oxide: Optimization, equilibrium, kinetic and thermodynamic studies. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 98, 150-162.	2.7	63
10	Insights into the equilibrium, kinetic and thermodynamics of nickel removal by environmental friendly <i>Lansium domesticum</i> peel biosorbent. <i>Ecotoxicology and Environmental Safety</i> , 2016, 127, 61-70.	2.9	61
11	Facile synthesis of xanthan biopolymer integrated 3D hierarchical graphene oxide/titanium dioxide composite for adsorptive lead removal in wastewater. <i>Bioresource Technology</i> , 2020, 309, 123296.	4.8	58
12	Utilisation of eco-friendly and low cost 3D graphene-based composite for treatment of aqueous Reactive Black 5 dye: Characterisation, adsorption mechanism and recyclability studies. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 114, 57-66.	2.7	44
13	Utilisation of <i>Cymbopogon citratus</i> (lemon grass) as biosorbent for the sequestration of nickel ions from aqueous solution: Equilibrium, kinetic, thermodynamics and mechanism studies. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1764-1772.	2.7	42
14	Multistage optimizations of slow pyrolysis synthesis of biochar from palm oil sludge for adsorption of lead. <i>Bioresource Technology</i> , 2017, 245, 944-953.	4.8	41
15	Evaluation of <i>Abelmoschus esculentus</i> (lady's finger) seed as a novel biosorbent for the removal of Acid Blue 113 dye from aqueous solutions. <i>Chemical Engineering Research and Design</i> , 2015, 94, 329-338.	2.7	39
16	Effect of oxide catalysts on the properties of bio-oil from in-situ catalytic pyrolysis of palm empty fruit bunch fiber. <i>Journal of Environmental Management</i> , 2019, 247, 38-45.	3.8	35
17	Potential Malaysia agricultural waste materials for the biosorption of cadmium(II) from aqueous solution. <i>Clean Technologies and Environmental Policy</i> , 2012, 14, 273-280.	2.1	31
18	Kinetics and Mechanisms for Copyrolysis of Palm Empty Fruit Bunch Fiber (EFBF) with Palm Oil Mill Effluent (POME) Sludge. <i>Energy & Fuels</i> , 2017, 31, 8217-8227.	2.5	31

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19	Evaluation of carbon-based nanosorbents synthesised by ethylene decomposition on stainless steel substrates as potential sequestering materials for nickel ions in aqueous solution. <i>Journal of Environmental Sciences</i> , 2012, 24, 1559-1568.	3.2	30
20	Valorization of spent brewery yeast biosorbent with sonication-assisted adsorption for dye removal in wastewater treatment. <i>Environmental Research</i> , 2022, 204, 112385.	3.7	29
21	Enhancement of Palm Kernel Shell Fuel Properties via Wet Torrefaction: Response Surface, Optimization, and Combustion Studies. <i>Energy & Fuels</i> , 2019, 33, 11009-11020.	2.5	22
22	Insight into Co-pyrolysis of Palm Kernel Shell (PKS) with Palm Oil Sludge (POS): Effect on Bio-oil Yield and Properties. <i>Waste and Biomass Valorization</i> , 2020, 11, 5877-5889.	1.8	20
23	<i>Luffa acutangula</i> peel as an effective natural biosorbent for malachite green removal in aqueous media: equilibrium, kinetic and thermodynamic investigations. <i>Desalination and Water Treatment</i> , 2016, 57, 7302-7311.	1.0	19
24	Valorisation of oil palm wastes into high yield and energy content biochars via slow pyrolysis: Multivariate process optimisation and combustion kinetic studies. <i>Materials Science for Energy Technologies</i> , 2020, 3, 601-610.	1.0	17
25	Catalytic pyrolysis of cellulose with oxides: effects on physical properties and reaction pathways. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1629-1643.	2.1	15
26	Utilisation of environmentally friendly okara-based biosorbent for cadmium(II) removal. <i>Environmental Science and Pollution Research</i> , 2021, 28, 40608-40622.	2.7	14
27	Applicability of a novel and highly effective adsorbent derived from industrial palm oil mill sludge for copper sequestration: Central composite design optimisation and adsorption performance evaluation. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105968.	3.3	13
28	Usage of a new macro-hierarchical graphene sponge in batch adsorption and packed column configuration for efficient decontamination of cadmium in aqueous environment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106057.	3.3	11
29	Synthesis of a highly recoverable 3D MnO ₂ /rGO hybrid aerogel for efficient adsorptive separation of pharmaceutical residue. <i>Journal of Environmental Sciences</i> , 2022, 118, 194-203.	3.2	9
30	Comparison of Bio-Oil Properties from Non-Catalytic and In-Situ Catalytic Fast Pyrolysis of Palm Empty Fruit Bunch. <i>Materials Today: Proceedings</i> , 2018, 5, 23456-23465.	0.9	8
31	Kinetics and mechanisms for catalytic pyrolysis of empty fruit bunch fibre and cellulose with oxides. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	7
32	Esterification and neutralization of bio-oil from palm empty fruit bunch fibre with calcium oxide. <i>Bioresource Technology Reports</i> , 2020, 12, 100560.	1.5	6
33	Wet torrefaction pre-treatment of yard waste to improve the fuel properties. <i>Materials Science for Energy Technologies</i> , 2021, 4, 211-223.	1.0	5
34	Enhancement of fuel properties of yard waste through dry torrefaction. <i>Materials Science for Energy Technologies</i> , 2021, 4, 156-165.	1.0	4
35	Evaluation of industrial palm oil sludge as an effective green adsorbing substrate for toxic aqueous cadmium removal. <i>Materials Science for Energy Technologies</i> , 2021, 4, 224-235.	1.0	2
36	The introduction of an autumn and spring activity week into the first year of a chemical engineering undergraduate program in Malaysia. <i>Education for Chemical Engineers</i> , 2012, 7, e125-e132.	2.8	1

#	ARTICLE	IF	CITATIONS
37	Improved physical properties and in vitro biocompatibility of chitosan composite scaffolds incorporated with a green filler on bone cells. Clean Technologies and Environmental Policy, 2020, 22, 701-712.	2.1	1