

Chew-Tin Lee

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

4,191
citations

109321

35
h-index

118850

62
g-index

84
all docs

84
docs citations

84
times ranked

4700
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy, economic and environmental (3E) analysis of waste-to-energy (WTE) strategies for municipal solid waste (MSW) management in Malaysia. <i>Energy Conversion and Management</i> , 2015, 102, 111-120.	9.2	267
2	A review on air emissions assessment: Transportation. <i>Journal of Cleaner Production</i> , 2018, 194, 673-684.	9.3	266
3	Potential of biogas production from farm animal waste in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 714-723.	16.4	258
4	Review of distributed generation (DG) system planning and optimisation techniques: Comparison of numerical and mathematical modelling methods. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 531-573.	16.4	212
5	The characterisation and treatment of food waste for improvement of biogas production during anaerobic digestion – A review. <i>Journal of Cleaner Production</i> , 2018, 172, 1545-1558.	9.3	184
6	Sustaining the low-carbon emission development in Asia and beyond: Sustainable energy, water, transportation and low-carbon emission technology. <i>Journal of Cleaner Production</i> , 2017, 146, 1-13.	9.3	151
7	Energy and emissions benefits of renewable energy derived from municipal solid waste: Analysis of a low carbon scenario in Malaysia. <i>Applied Energy</i> , 2014, 136, 797-804.	10.1	140
8	Optimal process network for municipal solid waste management in Iskandar Malaysia. <i>Journal of Cleaner Production</i> , 2014, 71, 48-58.	9.3	140
9	A review on the global warming potential of cleaner composting and mitigation strategies. <i>Journal of Cleaner Production</i> , 2017, 146, 149-157.	9.3	119
10	Review on the renewable energy and solid waste management policies towards biogas development in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 70, 988-998.	16.4	106
11	Flavonoids and phenolic acids from <i>Labisia pumila</i> (Kacip Fatimah). <i>Food Chemistry</i> , 2011, 127, 1186-1192.	8.2	104
12	Efficiency of Microalgae <i>Chlamydomonas</i> on the Removal of Pollutants from Palm Oil Mill Effluent (POME). <i>Energy Procedia</i> , 2015, 75, 2400-2408.	1.8	97
13	Evaluation of Effective Microorganisms on home scale organic waste composting. <i>Journal of Environmental Management</i> , 2018, 216, 41-48.	7.8	93
14	Cross-disciplinary approaches towards smart, resilient and sustainable circular economy. <i>Journal of Cleaner Production</i> , 2019, 232, 1482-1491.	9.3	89
15	Phyco-synthesis of Silver Nanoparticles Mediated from Marine Algae <i>Sargassum myriocystum</i> and Its Potential Biological and Environmental Applications. <i>Waste and Biomass Valorization</i> , 2020, 11, 5255-5271.	3.4	89
16	Anaerobic digestion of municipal solid waste: Energy and carbon emission footprint. <i>Journal of Environmental Management</i> , 2018, 223, 888-897.	7.8	86
17	Enabling low-carbon emissions for sustainable development in Asia and beyond. <i>Journal of Cleaner Production</i> , 2018, 176, 726-735.	9.3	65
18	Effect of aquaculture salinity on nitrification and microbial community in moving bed bioreactors with immobilized microbial granules. <i>Bioresource Technology</i> , 2020, 297, 122427.	9.6	63

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19	Raw oil palm frond leaves as cost-effective substrate for cellulase and xylanase productions by <i>Trichoderma asperellum</i> UC1 under solid-state fermentation. <i>Journal of Environmental Management</i> , 2019, 243, 206-217.	7.8	60
20	Fabrication of nanocomposites mediated from aluminium nanoparticles/ <i>Moringa oleifera</i> gum activated carbon for effective photocatalytic removal of nitrate and phosphate in aqueous solution. <i>Journal of Cleaner Production</i> , 2021, 281, 124553.	9.3	60
21	Co-composting of palm empty fruit bunch and palm oil mill effluent: Microbial diversity and potential mitigation of greenhouse gas emission. <i>Journal of Cleaner Production</i> , 2017, 146, 94-100.	9.3	59
22	Minimum units targeting and network evolution for batch heat exchanger network. <i>Applied Thermal Engineering</i> , 2008, 28, 2089-2099.	6.0	58
23	Improved production of lipid contents by cultivating <i>Chlorella pyrenoidosa</i> in heterogeneous organic substrates. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1969-1978.	4.1	58
24	Post COVID-19 ENERGY sustainability and carbon emissions neutrality. <i>Energy</i> , 2022, 241, 122801.	8.8	57
25	Microplastics and nanoplastics in global food webs: A bibliometric analysis (2009-2019). <i>Marine Pollution Bulletin</i> , 2020, 158, 111432.	5.0	56
26	Waste Management Pinch Analysis (WAMPA): Application of Pinch Analysis for greenhouse gas (GHG) emission reduction in municipal solid waste management. <i>Applied Energy</i> , 2017, 185, 1481-1489.	10.1	55
27	Forecasting plastic waste generation and interventions for environmental hazard mitigation. <i>Journal of Hazardous Materials</i> , 2022, 424, 127330.	12.4	55
28	Optimum lipid production using agro-industrial wastewater treated microalgae as biofuel substrate. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2513-2523.	4.1	52
29	Edible Bird's nest extract as a chondro-protective agent for human chondrocytes isolated from osteoarthritic knee: in vitro study. <i>BMC Complementary and Alternative Medicine</i> , 2013, 13, 19.	3.7	49
30	Kinetic study on the hydrolysis of palm olein using immobilized lipase. <i>Biochemical Engineering Journal</i> , 2008, 39, 516-520.	3.6	47
31	LC-MS/MS-based metabolites of <i>Eurycoma longifolia</i> (Tongkat Ali) in Malaysia (Perak and Pahang). <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2011, 879, 3909-3919.	2.3	44
32	Integrated regional waste management to minimise the environmental footprints in circular economy transition. <i>Resources, Conservation and Recycling</i> , 2021, 168, 105292.	10.8	44
33	Application of <i>Proteus mirabilis</i> and <i>Proteus vulgaris</i> mixture to design self-healing concrete. <i>Desalination and Water Treatment</i> , 2014, 52, 3623-3630.	1.0	42
34	Performance of a pilot-scale aquaponics system using hydroponics and immobilized biofilm treatment for water quality control. <i>Journal of Cleaner Production</i> , 2019, 208, 274-284.	9.3	37
35	Differential interactions of plasmid DNA, RNA and endotoxin with immobilised and free metal ions. <i>Journal of Chromatography A</i> , 2007, 1141, 226-234.	3.7	36
36	<i>Chlorella Pyrenoidosa</i> Mediated Lipid Production Using Malaysian Agricultural Wastewater: Effects of Photon and Carbon. <i>Waste and Biomass Valorization</i> , 2016, 7, 779-788.	3.4	36

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37	Towards low carbon society in Iskandar Malaysia: Implementation and feasibility of community organic waste composting. <i>Journal of Environmental Management</i> , 2017, 203, 679-687.	7.8	34
38	Anaerobic digestion of lignocellulosic waste: Environmental impact and economic assessment. <i>Journal of Environmental Management</i> , 2019, 231, 352-363.	7.8	33
39	Lipid production by microalgae <i>Chlorella pyrenoidosa</i> cultivated in palm oil mill effluent (POME) using hybrid photo bioreactor (HPBR). <i>Desalination and Water Treatment</i> , 2015, 55, 3737-3749.	1.0	32
40	Modeling of glucose regulation and insulin-signaling pathways. <i>Molecular and Cellular Endocrinology</i> , 2009, 303, 13-24.	3.2	31
41	Effects of nitrogen source on enhancing growth conditions of green algae to produce higher lipid. <i>Desalination and Water Treatment</i> , 2014, 52, 3579-3584.	1.0	31
42	Economic assessment system towards sustainable composting quality in the developing countries. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2479-2491.	4.1	28
43	Review of microalgae growth in palm oil mill effluent for lipid production. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2347-2361.	4.1	27
44	An investigation of the drivers, barriers, and incentives for environmental management systems in the Malaysian food and beverage industry. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 529-538.	4.1	27
45	An Integrated Carbon Accounting and Mitigation Framework for Greening the Industry. <i>Energy Procedia</i> , 2015, 75, 2993-2998.	1.8	26
46	Uncovering the dynamics in global carbon dioxide utilization research: a bibliometric analysis (1995–2019). <i>Environmental Science and Pollution Research</i> , 2021, 28, 13842-13860.	5.3	26
47	A novel food waste management framework combining optical sorting system and anaerobic digestion: A case study in Malaysia. <i>Energy</i> , 2021, 232, 121094.	8.8	25
48	Low-carbon emission development in Asia: energy sector, waste management and environmental management system. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 443-449.	4.1	23
49	Hydrolysis of Virgin Coconut Oil Using Immobilized Lipase in a Batch Reactor. <i>Enzyme Research</i> , 2012, 2012, 1-5.	1.8	21
50	Optimisation of oil palm biomass and palm oil mill effluent (POME) utilisation pathway for palm oil mill cluster with consideration of BioCNG distribution network. <i>Energy</i> , 2017, 121, 865-883.	8.8	21
51	Recovery of nutrients from fish sludge in an aquaponic system using biological aerated filters with ceramics plus lignocellulosic material media. <i>Journal of Cleaner Production</i> , 2020, 258, 120886.	9.3	21
52	Greenhouse Gas Emission of Organic Waste Composting: A Case Study of Universiti Teknologi Malaysia Green Campus Flagship Project. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 74, .	0.4	18
53	Photocatalytic activity and antibacterial efficacy of titanium dioxide nanoparticles mediated by <i>Myristica fragrans</i> seed extract. <i>Chemical Physics Letters</i> , 2021, 771, 138527.	2.6	18
54	Environmental and economic feasibility of an integrated community composting plant and organic farm in Malaysia. <i>Journal of Environmental Management</i> , 2019, 244, 431-439.	7.8	17

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55	In-situ removal of residual antibiotics (enrofloxacin) in recirculating aquaculture system: Effect of ultraviolet photolysis plus biodegradation using immobilized microbial granules. <i>Journal of Cleaner Production</i> , 2022, 333, 130190.	9.3	17
56	Durability improvement assessment in different high strength bacterial structural concrete grades against different types of acids. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2014, 39, 1509-1522.	1.3	16
57	Efficiency of microbial inoculation for a cleaner composting technology. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 517-527.	4.1	16
58	Effects of different vermicompost extracts of palm oil mill effluent and palm-pressed fiber mixture on seed germination of mung bean and its relative toxicity. <i>Environmental Science and Pollution Research</i> , 2018, 25, 35805-35810.	5.3	15
59	Entwining ecosystem services, Land Use Change and human well-being by nitrogen flows. <i>Journal of Cleaner Production</i> , 2021, 308, 127442.	9.3	15
60	Plant proteins, minerals and trace elements of <i>Eurycoma longifolia</i> (Tongkat Ali). <i>Natural Product Research</i> , 2013, 27, 314-318.	1.8	14
61	Discovering potential bioactive compounds from Tualang honey. <i>Agriculture and Natural Resources</i> , 2018, 52, 361-365.	0.1	14
62	Simulation on the effectiveness of carbon emission trading policy: A system dynamics approach. <i>Journal of the Operational Research Society</i> , 2021, 72, 1447-1460.	3.4	14
63	PHYSICO-CHEMICAL AND BIOLOGICAL CHANGES DURING CO-COMPOSTING OF MODEL KITCHEN WASTE, RICE BRAN AND DRIED LEAVES WITH DIFFERENT MICROBIAL INOCULANTS. <i>Malaysian Journal of Analytical Sciences</i> , 2016, 20, 1447-1457.	0.1	13
64	Application of a grounded group decision-making (GGDM) model: a case of micro-organism optimal inoculation method in biological self-healing concrete. <i>Desalination and Water Treatment</i> , 2014, 52, 3594-3599.	1.0	12
65	Waste Management Pinch Analysis (WAMPA) for Carbon Emission Reduction. <i>Energy Procedia</i> , 2015, 75, 2448-2453.	1.8	12
66	Mobilising the potential towards low-carbon emissions society in Asia. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2337-2345.	4.1	10
67	Modeling of oscillatory bursting activity of pancreatic beta-cells under regulated glucose stimulation. <i>Molecular and Cellular Endocrinology</i> , 2009, 307, 57-67.	3.2	9
68	Contributing to sustainability: addressing the core problems. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 1121-1122.	4.1	8
69	The Role of Potential Licensee Availability in Facilitating Commercialization of Academic Research Results. <i>Procedia, Social and Behavioral Sciences</i> , 2015, 172, 331-335.	0.5	7
70	Feasibility Study of Composting and Anaerobic Digestion Plant at Community Scale in Malaysia. <i>Waste and Biomass Valorization</i> , 2020, 11, 5165-5173.	3.4	7
71	External mass transfer model for the hydrolysis of palm olein using immobilized lipase. <i>Food and Bioproducts Processing</i> , 2008, 86, 276-282.	3.6	6
72	Enhancing Commercialization Level of Academic Research Outputs in Research University. <i>Jurnal Teknologi (Sciences and Engineering)</i> , 2015, 74, .	0.4	6

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73	Physicochemical profile of microbial-assisted composting on empty fruit bunches of oil palm trees. <i>Environmental Science and Pollution Research</i> , 2015, 22, 19814-19822.	5.3	6
74	Advancing low-carbon emissions in Asia: mitigation of greenhouse gases and enhancing economic feasibility for major sectors. <i>Clean Technologies and Environmental Policy</i> , 2018, 20, 441-442.	4.1	5
75	Demographic and socio-economic factors including sustainability related indexes in waste generation and recovery. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-14.	2.3	5
76	Enhancing nutrient recovery from fish sludge using a modified biological aerated filter with sponge media with extended filtration in aquaponics. <i>Journal of Cleaner Production</i> , 2021, 320, 128804.	9.3	5
77	Enhanced precipitation performance for treating high-phosphorus wastewater using novel magnetic seeds from coal fly ash. <i>Journal of Environmental Management</i> , 2022, 315, 115168.	7.8	5
78	Low-carbon Asia: technical contributions to an ambitious goal for sustainability. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2335-2336.	4.1	4
79	Microalgae Cultivation Using Various Sources of Organic Substrate for High Lipid Content. <i>Green Energy and Technology</i> , 2019, , 893-898.	0.6	4
80	Dilution rate of compost leachate from different biowaste for the fertigation of vegetables. <i>Journal of Environmental Management</i> , 2021, 295, 113010.	7.8	4
81	Clean technologies and policies for sustainable development in Asia. <i>Clean Technologies and Environmental Policy</i> , 2019, 21, 1897-1898.	4.1	3
82	SMART: An Integrated Planning and Decision Support Tool for Solid Waste Management. <i>Computer Aided Chemical Engineering</i> , 2014, 33, 271-276.	0.5	1
83	Integrated Waste Management System to Reduce Environmental Footprints. , 2022, , .		0