

Jeng Shiun Lim

List of Publications by Year in descending order

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75
papers

3,492
citations

201674

27
h-index

144013

57
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87
all docs

87
docs citations

87
times ranked

4220
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on utilisation of biomass from rice industry as a source of renewable energy. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 3084-3094.	16.4	480
2	Potential of biogas production from farm animal waste in Malaysia. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 60, 714-723.	16.4	258
3	Review of pre-combustion capture and ionic liquid in carbon capture and storage. <i>Applied Energy</i> , 2016, 183, 1633-1663.	10.1	245
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	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
6	Optimal process network for municipal solid waste management in Iskandar Malaysia. <i>Journal of Cleaner Production</i> , 2014, 71, 48-58.	9.3	140
7	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
8	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
9	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
10	QSPR prediction of the hydroxyl radical rate constant of water contaminants. <i>Water Research</i> , 2016, 98, 344-353.	11.3	95
11	Cross-disciplinary approaches towards smart, resilient and sustainable circular economy. <i>Journal of Cleaner Production</i> , 2019, 232, 1482-1491.	9.3	89
12	Total Site Heat Integration planning and design for industrial, urban and renewable systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 68, 964-985.	16.4	84
13	Optimal scheduling of energy storage for renewable energy distributed energy generation system. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 58, 1100-1107.	16.4	81
14	Feasibility of palm oil mill effluent elimination towards sustainable Malaysian palm oil industry. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 111, 507-522.	16.4	81
15	Integrated biomass and solar town concept for a smart eco-village in Iskandar Malaysia (IM). <i>Renewable Energy</i> , 2014, 69, 190-201.	8.9	66
16	Enabling low-carbon emissions for sustainable development in Asia and beyond. <i>Journal of Cleaner Production</i> , 2018, 176, 726-735.	9.3	65
17	A retrofit framework for Total Site heat recovery systems. <i>Applied Energy</i> , 2014, 135, 778-790.	10.1	55
18	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

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19	An integrated Pinch Analysis framework for low CO ₂ emissions industrial site planning. <i>Journal of Cleaner Production</i> , 2017, 146, 125-138.	9.3	47
20	An MILP model for cost-optimal planning of an on-grid hybrid power system for an eco-industrial park. <i>Energy</i> , 2016, 116, 1423-1441.	8.8	46
21	A comprehensive review on energy saving options and saving potential in low voltage electricity distribution networks: Building and public lighting. <i>Sustainable Cities and Society</i> , 2021, 72, 103064.	10.4	44
22	A cleaner and greener fuel: Biofuel blend formulation and emission assessment. <i>Journal of Cleaner Production</i> , 2017, 146, 208-217.	9.3	38
23	<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
24	Total Site Heat Integration incorporating the water sensible heat. <i>Journal of Cleaner Production</i> , 2014, 77, 94-104.	9.3	35
25	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
26	Combined design and load shifting for distributed energy system. <i>Clean Technologies and Environmental Policy</i> , 2013, 15, 433-444.	4.1	32
27	Integrated biomass and solar town: Incorporation of load shifting and energy storage. <i>Energy</i> , 2014, 75, 31-39.	8.8	29
28	Energy Efficiency Award system in Malaysia for energy sustainability. <i>Renewable and Sustainable Energy Reviews</i> , 2010, 14, 2279-2289.	16.4	27
29	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
30	Towards an integrated, resource-efficient rice mill complex. <i>Resources, Conservation and Recycling</i> , 2013, 75, 41-51.	10.8	26
31	An Integrated Carbon Accounting and Mitigation Framework for Greening the Industry. <i>Energy Procedia</i> , 2015, 75, 2993-2998.	1.8	26
32	Economic and spatial planning for sustainable oil palm biomass resources to mitigate transboundary haze issue. <i>Energy</i> , 2018, 146, 169-178.	8.8	25
33	A multi-period model for optimal planning of an integrated, resource-efficient rice mill. <i>Computers and Chemical Engineering</i> , 2013, 52, 77-89.	3.8	23
34	Development and optimization of an integrated energy network with centralized and decentralized energy systems using mathematical modelling approach. <i>Energy</i> , 2019, 183, 617-629.	8.8	22
35	Minimum water network design for fixed schedule and cyclic operation batch processes with minimum storage capacity and inter-connections. <i>Journal of Cleaner Production</i> , 2014, 77, 65-78.	9.3	21
36	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

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37	Potential commercialisation of biocoke production in Malaysia – A best evidence review. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 90, 636-649.	16.4	21
38	Sizing of Hybrid Power System with varying current type using numerical probabilistic approach. <i>Applied Energy</i> , 2016, 184, 1364-1373.	10.1	20
39	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
40	An optimal resource recovery of biogas, water regeneration, and reuse network integrating domestic and industrial sources. <i>Journal of Cleaner Production</i> , 2021, 286, 125372.	9.3	18
41	Optimal landfill gas utilization for renewable energy production. <i>Environmental Progress and Sustainable Energy</i> , 2015, 34, 289-296.	2.3	17
42	Economic and environmental evaluation of landfill gas utilisation: A multi-period optimisation approach for low carbon regions. <i>International Biodeterioration and Biodegradation</i> , 2015, 102, 191-201.	3.9	17
43	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
44	Malaysia scenario of biomass supply chain-cogeneration system and optimization modeling development: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 148, 111289.	16.4	16
45	Optimal Multi-Site Resource Allocation and Utility Planning for Integrated Rice Mill Complex. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 3816-3831.	3.7	15
46	Green Industry for Low Carbon Economy: Palm Oil Green Assessment Tool. <i>Energy Procedia</i> , 2014, 61, 2759-2762.	1.8	15
47	Optimisation and targeting of supply-demand of biogas system through gas system cascade analysis (GASCA) framework. <i>Journal of Cleaner Production</i> , 2017, 146, 101-115.	9.3	15
48	Optimal Design and Sizing of Integrated Centralized and Decentralized Energy Systems. <i>Energy Procedia</i> , 2017, 105, 3733-3740.	1.8	15
49	Process assessment, integration and optimisation: The path towards cleaner production. <i>Journal of Cleaner Production</i> , 2021, 281, 124602.	9.3	15
50	Optimal operation of a distributed energy generation system for a sustainable palm oil-based eco-community. <i>Clean Technologies and Environmental Policy</i> , 2015, 17, 1597-1617.	4.1	14
51	Time-Dependent Integration of Solar Thermal Technology in Industrial Processes. <i>Sustainability</i> , 2020, 12, 2322.	3.2	14
52	Waste Management Pinch Analysis (WAMPA) for Carbon Emission Reduction. <i>Energy Procedia</i> , 2015, 75, 2448-2453.	1.8	12
53	Synthesis of a sustainable integrated rice mill complex. <i>Journal of Cleaner Production</i> , 2014, 71, 118-127.	9.3	11
54	Optimal Design of a Rice Mill Utility System with Rice Husk Logistic Network. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 362-373.	3.7	10

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55	Techno-economic assessment of different cooling systems for office buildings in tropical large city considering on-site biogas utilization. <i>Journal of Cleaner Production</i> , 2018, 184, 774-787.	9.3	10
56	Spatial planning and optimisation for virtual distribution of BioCNG derived from palm oil mill effluent to meet industrial energy demand. <i>Renewable Energy</i> , 2019, 141, 526-540.	8.9	10
57	Evaluation of processing route alternatives for accessing the integration of algae-based biorefinery with palm oil mill. <i>Journal of Cleaner Production</i> , 2019, 212, 1282-1299.	9.3	9
58	Multi-objective optimal design for integrated palm oil mill complex with consideration of effluent elimination. <i>Energy</i> , 2020, 202, 117767.	8.8	9
59	Batch kinetics of nutrients removal for palm oil mill effluent and recovery of lipid by <i>Nannochloropsis</i> sp. <i>Journal of Water Process Engineering</i> , 2021, 40, 101767.	5.6	8
60	Optimal waste-to-energy strategy assisted by GIS For sustainable solid waste management. <i>IOP Conference Series: Earth and Environmental Science</i> , 2014, 18, 012159.	0.3	6
61	Superstructure-based synthesis and optimisation of an oil palm eco-industrial town: a case study in Iskandar Malaysia. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2119-2129.	4.1	6
62	Power Pinch Analysis supply side management: strategy on purchasing and selling of electricity. <i>Clean Technologies and Environmental Policy</i> , 2016, 18, 2401-2418.	4.1	6
63	Cooperative game-based anchor process allocation within sustainable palm oil based complex for environment-food-energy-water nexus evaluation. <i>Journal of Cleaner Production</i> , 2021, 314, 127927.	9.3	6
64	Solubility modelling for phytochemicals of Misai Kucing in different solvents. <i>Fluid Phase Equilibria</i> , 2016, 427, 246-258.	2.5	4
65	Extended Electric System Cascade Analysis (ESCA) for optimal power system targeting considering generation flexibility and heat rate factor. <i>Energy Procedia</i> , 2019, 158, 4190-4197.	1.8	4
66	Mitigation the Transboundary Haze in ASEAN Country: Biomass to Energy GHG Emission Assessment. <i>Energy Procedia</i> , 2017, 105, 1178-1183.	1.8	3
67	Shapley-Shubik Index incorporated debottlenecking framework for sustainable food-energy-water nexus optimised palm oil-based complex. <i>Journal of Cleaner Production</i> , 2021, 309, 127437.	9.3	3
68	Organic rankine cycle and steam turbine for intermediate temperature waste heat recovery in total site integration. <i>Malaysian Journal of Fundamental and Applied Sciences</i> , 2019, 15, 125-130.	0.8	3
69	Biogas production from multiple feedstock at the district-level centralized facility for multiple end-use options: a case study in Johor Bahru, Malaysia. <i>Clean Technologies and Environmental Policy</i> , 2022, 24, 315-332.	4.1	2
70	A Linear Programming Approach for Landfill Gas Utilization for Renewable Energy Production. <i>Applied Mechanics and Materials</i> , 0, 699, 619-624.	0.2	1
71	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
72	Stagnation and Solar Fraction Analysis on Solar Thermal Integration in Southeast Asia. <i>Process Integration and Optimization for Sustainability</i> , 2021, 5, 257-268.	2.6	1

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73	Design of Integrated Palm Oil Based Complex via Food-Energy-Water Nexus Optimization Framework. , 2020, , 75-99.		1
74	The economic study of centralised water reuse exchange system in the industrial park considering wastewater segregation. Computers and Chemical Engineering, 2022, 164, 107863.	3.8	1
75	Optimal Design of Biomass-solar Town for a Palm Oil Mill for Iskandar Malaysia. Energy Procedia, 2014, 61, 2763-2766.	1.8	0