Irene Chew

List of Publications by Year
in descending order

37	991	567144 15	434063 31
papers	citations	h-index	g-index

37	37	37	816
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A technoeconomic analysis of sewage sludge valorization for carbon emission reduction. Biomass Conversion and Biorefinery, 2023, 13, 13591-13604.	2.9	3
2	SPTV sheds light on flow dynamics of fractal-induced turbulence over a plate-fin array forced convection. Scientific Reports, 2022, 12, 76.	1.6	5
3	Data augmentation and machine learning techniques for control strategy development in bio-polymerization process. Environmental Science and Ecotechnology, 2022, 11, 100172.	6.7	11
4	Morphological control of cellulose nanocrystals via sulfuric acid hydrolysis based on sustainability considerations: An overview of the governing factors and potential challenges. Journal of Environmental Chemical Engineering, 2022, 10, 108145.	3.3	18
5	Lignin nanoparticles: The next green nanoreinforcer with wide opportunity. Environmental Nanotechnology, Monitoring and Management, 2021, 15, 100398.	1.7	21
6	Multi-objective Optimization of Integrated Water System by FUCOM-VIKOR Approach. Process Integration and Optimization for Sustainability, 2021, 5, 43-62.	1.4	18
7	Resource Allocation in Multiple Energy-Integrated Biorefinery Using Neuroevolution and Mathematical Optimization. Process Integration and Optimization for Sustainability, 2021, 5, 383-416.	1.4	6
8	Development of a Câ€“Hâ€“O Symbiosis Network during Conceptual Design via Economic, Sustainability, and Safety Metrics. ACS Sustainable Chemistry and Engineering, 2021, 9, 3735-3749.	3.2	13
9	Sustainable and cost-effective approach for the synthesis of lignin-containing cellulose nanocrystals from oil palm empty fruit bunch. Chemosphere, 2021, 267, 129277.	4.2	14
10	Evaluation of Palm Oil Eco-Industrial Park Configurations: VIKOR with Stability Analysis. Process Integration and Optimization for Sustainability, 2021, 5, 303-316.	1.4	3
11	An integrated lignocellulosic biorefinery design for nanomaterial and biochemical production using oil palm biomass. Clean Technologies and Environmental Policy, 2021, 23, 2955.	2.1	1
12	Development of a simultaneous mass-water carbon-hydrogen-oxygen symbiosis network. Sustainable Production and Consumption, 2021, 28, 419-435.	5.7	6
13	Multiple-criteria evaluation of centralized chilled water hub powered by industrial waste heat and renewable energy. Journal of Cleaner Production, 2020, 247, 119570.	4.6	6
14	Development of a binary logistic lane change model and its validation using empirical freeway data. Transportmetrica B, 2020, 8, 49-71.	1.4	10
15	Algebraic and Automated Targeting Techniques for Resource Allocation Problems in Production Planning. Process Integration and Optimization for Sustainability, 2020, 4, 81-90.	1.4	3
16	Centralized Autonomous Cleaning Solution Regeneration/Recycling System for Multiple Glove Hand-Mould Washing Tanks. Process Integration and Optimization for Sustainability, 2020, 4, 227-241.	1.4	1
17	A Step Closer to Sustainable Industrial Production: Tailor the Properties of Nanocrystalline Cellulose from Oil Palm Empty Fruit Bunch. Journal of Environmental Chemical Engineering, 2020, 8, 104058.	3.3	15
18	An application of low concentration alkaline hydrogen peroxide at non-severe pretreatment conditions together with deep eutectic solvent to improve delignification of oil palm fronds. Cellulose, 2019, 26, 8557-8573.	2.4	31

#	Article	IF	Citations
19	Surface-modified nanocrystalline cellulose from oil palm empty fruit bunch for effective binding of curcumin. International Journal of Biological Macromolecules, 2019, 138, 1064-1071.	3.6	40
20	Process Modelling and Economic Evaluation for NanoLignin Production. IOP Conference Series: Materials Science and Engineering, 2019, 652, 012054.	0.3	8
21	An insight into nanocellulose as soft condensed matter: Challenge and future prospective toward environmental sustainability. Science of the Total Environment, 2019, 650, 1309-1326.	3.9	70
22	Economic viability for the synthesis of multiperiod thermal-driven chilled water network. Applied Thermal Engineering, 2019, 147, 312-323.	3.0	3
23	Valorization of palm oil agro-waste into cellulose biosorbents for highly effective textile effluent remediation. Journal of Cleaner Production, 2019, 210, 697-709.	4.6	68
24	Synthesis of energy efficient chilled and cooling water network by integrating waste heat recovery refrigeration system. Energy, 2017, 141, 1555-1568.	4.5	17
25	Multi-objective optimization for resource network synthesis in eco-industrial parks using an integrated analytic hierarchy process. Journal of Cleaner Production, 2017, 143, 1268-1283.	4.6	57
26	Superstructural approach to the synthesis of free-cooling system through an integrated chilled and cooling water network. Chemical Engineering Research and Design, 2016, 103, 273-290.	2.7	3
27	Fuzzy analytic hierarchy process and targeting for inter-plant chilled and cooling water network synthesis. Journal of Cleaner Production, 2016, 110, 40-53.	4.6	31
28	Incorporating Timesharing Scheme in Ecoindustrial Multiperiod Chilled and Cooling Water Network Design. Industrial & Engineering Chemistry Research, 2016, 55, 197-209.	1.8	13
29	RCNet: An optimisation software for the synthesis of resource conservation networks. Chemical Engineering Research and Design, 2014, 92, 917-928.	2.7	5
30	A Two-stage Optimization Approach for the Synthesis of an Integrated Pulp and Paper Biorefinery. Energy Procedia, 2014, 61, 820-823.	1.8	0
31	A model-based approach for simultaneous water and energy reduction in a pulp and paper mill. Applied Thermal Engineering, 2013, 51, 393-400.	3.0	30
32	Analysis of inter-plant water integration with indirect integration schemes through game theory approach: Pareto optimal solution with interventions. Clean Technologies and Environmental Policy, 2011, 13, 49-62.	2.1	44
33	An extended graphical targeting technique for direct reuse/recycle in concentration and property-based resource conservation networks. Clean Technologies and Environmental Policy, 2011, 13, 347-357.	2.1	58
34	Game theory approach to the analysis of inter-plant water integration in an eco-industrial park. Journal of Cleaner Production, 2009, 17, 1611-1619.	4.6	134
35	Automated targeting for inter-plant water integration. Chemical Engineering Journal, 2009, 153, 23-36.	6.6	86
36	Synthesis of Direct and Indirect Interplant Water Network. Industrial & Engineering Chemistry Research, 2008, 47, 9485-9496.	1.8	136

#	Article	IF	Citations
37	Mitigating plastic pollution through better process design: an opportunity from biomass to bioplastic. Biomass Conversion and Biorefinery, 0, , 1.	2.9	3