

Sharifah Rafidah Wan Alwi

List of Publications by Citations

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157
papers

3,692
citations

34
h-index

54
g-index

166
ext. papers

4,283
ext. citations

6.4
avg, IF

5.94
L-index

#	Paper	IF	Citations
157	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	16.2	388
156	CO2 capture with potassium carbonate solutions: A state-of-the-art review. <i>International Journal of Greenhouse Gas Control</i> , 2015 , 41, 142-162	4.2	121
155	A process integration targeting method for hybrid power systems. <i>Energy</i> , 2012 , 44, 6-10	7.9	110
154	Electricity demand estimation using an adaptive neuro-fuzzy network: A case study from the Ontario province [Canada]. <i>Energy</i> , 2013 , 49, 323-328	7.9	75
153	Industrial implementation issues of Total Site Heat Integration. <i>Applied Thermal Engineering</i> , 2013 , 61, 17-25	5.8	75
152	Optimization of thermo-alkaline disintegration of sewage sludge for enhanced biogas yield. <i>Bioresource Technology</i> , 2012 , 114, 69-74	11	73
151	Treatment of lead-contaminated water using activated carbon adsorbent from locally available papaya peel biowaste. <i>Journal of Cleaner Production</i> , 2016 , 118, 210-222	10.3	72
150	A new technique for simultaneous water and energy minimisation in process plant. <i>Chemical Engineering Research and Design</i> , 2009 , 87, 1509-1519	5.5	72
149	A numerical technique for Total Site sensitivity analysis. <i>Applied Thermal Engineering</i> , 2012 , 40, 397-408	5.8	71
148	Experimental study of Al ₂ O ₃ /water nanofluid turbulent heat transfer enhancement in the horizontal double pipes fitted with modified twisted tapes. <i>International Journal of Heat and Mass Transfer</i> , 2014 , 78, 1042-1054	4.9	70
147	Total Site Heat Integration planning and design for industrial, urban and renewable systems. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 68, 964-985	16.2	69
146	Advances in Process Integration research for CO ₂ emission reduction [A review]. <i>Journal of Cleaner Production</i> , 2017 , 167, 1-13	10.3	69
145	Process integration of hybrid power systems with energy losses considerations. <i>Energy</i> , 2013 , 55, 38-45	7.9	67
144	Flexible Carbon Capture and Utilization technologies in future energy systems and the utilization pathways of captured CO ₂ . <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 114, 109338	16.2	64
143	Process Integration techniques for optimal design of hybrid power systems. <i>Applied Thermal Engineering</i> , 2013 , 61, 26-35	5.8	61
142	Optimal sizing of hybrid power systems using power pinch analysis. <i>Journal of Cleaner Production</i> , 2014 , 71, 158-167	10.3	57
141	STEP [A new graphical tool for simultaneous targeting and design of a heat exchanger network. <i>Chemical Engineering Journal</i> , 2010 , 162, 106-121	14.7	57

140	Issues of social acceptance on biofuel development. <i>Journal of Cleaner Production</i> , 2014 , 71, 30-39	10.3	55
139	Herbal Processing and Extraction Technologies. <i>Separation and Purification Reviews</i> , 2016 , 45, 305-320	7.3	54
138	New graphical tools for process changes via load shifting for hybrid power systems based on Power Pinch Analysis. <i>Clean Technologies and Environmental Policy</i> , 2013 , 15, 459-472	4.3	54
137	Kinetic and equilibrium study of Ni(II) sorption from aqueous solutions onto Peganum harmala-L. <i>International Journal of Environmental Science and Technology</i> , 2014 , 11, 1835-1844	3.3	53
136	Centralised utility system planning for a Total Site Heat Integration network. <i>Computers and Chemical Engineering</i> , 2013 , 57, 104-111	4	50
135	A retrofit framework for Total Site heat recovery systems. <i>Applied Energy</i> , 2014 , 135, 778-790	10.7	49
134	Algorithmic targeting for Total Site Heat Integration with variable energy supply/demand. <i>Applied Thermal Engineering</i> , 2014 , 70, 1073-1083	5.8	48
133	A new graphical approach for simultaneous mass and energy minimisation. <i>Applied Thermal Engineering</i> , 2011 , 31, 1021-1030	5.8	48
132	Analyzing the Energy Consumption, GHG Emission, and Cost of Seawater Desalination in China. <i>Energies</i> , 2019 , 12, 463	3.1	46
131	Sustainable Green Management System (SGMS) [An integrated approach towards organisational sustainability. <i>Journal of Cleaner Production</i> , 2017 , 146, 158-172	10.3	45
130	Holistic carbon planning for industrial parks: a waste-to-resources process integration approach. <i>Journal of Cleaner Production</i> , 2012 , 33, 74-85	10.3	42
129	Water pinch analysis for an urban system: a case study on the Sultan Ismail Mosque at the Universiti Teknologi Malaysia (UTM). <i>Desalination</i> , 2006 , 194, 52-68	10.3	41
128	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	7.9	39
127	An integrated Pinch Analysis framework for low CO2 emissions industrial site planning. <i>Journal of Cleaner Production</i> , 2017 , 146, 125-138	10.3	39
126	Process modifications to maximise energy savings in total site heat integration. <i>Applied Thermal Engineering</i> , 2015 , 78, 731-739	5.8	38
125	Integrating district cooling systems in Locally Integrated Energy Sectors through Total Site Heat Integration. <i>Applied Energy</i> , 2016 , 184, 1350-1363	10.7	37
124	Regional Water Resources Assessment using Water Scarcity Pinch Analysis. <i>Resources, Conservation and Recycling</i> , 2020 , 157, 104749	11.9	33
123	SHARPS: A new cost-screening technique to attain cost-effective minimum water network. <i>AIChE Journal</i> , 2006 , 52, 3981-3988	3.6	33

122	Using Theory of Planned Behaviour to explore oil palm smallholder planters' intention to supply oil palm residues. <i>Journal of Cleaner Production</i> , 2016 , 126, 428-439	10.3	32
121	Cleaner energy planning, management and technologies: Perspectives of supply-demand side and end-of-pipe management. <i>Journal of Cleaner Production</i> , 2016 , 136, 1-13	10.3	31
120	A combined numerical and visualization tool for utility targeting and heat exchanger network retrofiting. <i>Journal of Cleaner Production</i> , 2012 , 23, 1-7	10.3	30
119	Peak-off-peak load shifting for hybrid power systems based on Power Pinch Analysis. <i>Energy</i> , 2015 , 90, 128-136	7.9	30
118	A generic graphical approach for simultaneous targeting and design of a gas network. <i>Resources, Conservation and Recycling</i> , 2009 , 53, 588-591	11.9	30
117	Generic Graphical Technique for Simultaneous Targeting and Design of Water Networks. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 2762-2777	3.9	30
116	Total Site Heat Integration incorporating the water sensible heat. <i>Journal of Cleaner Production</i> , 2014 , 77, 94-104	10.3	29
115	Design of green diesel from biofuels using computer aided technique. <i>Computers and Chemical Engineering</i> , 2012 , 41, 88-92	4	29
114	A holistic framework for design of cost-effective minimum water utilization network. <i>Journal of Environmental Management</i> , 2008 , 88, 219-52	7.9	29
113	A process integration approach for design of hybrid power systems with energy storage. <i>Clean Technologies and Environmental Policy</i> , 2015 , 17, 2055-2072	4.3	27
112	Targeting Multiple Water Utilities Using Composite Curves. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 5968-5976	3.9	27
111	Review on Techniques for Plant Leaf Classification and Recognition. <i>Computers</i> , 2019 , 8, 77	1.9	25
110	Multi-period energy targeting for Total Site and Locally Integrated Energy Sectors with cascade Pinch Analysis. <i>Energy</i> , 2018 , 155, 370-380	7.9	23
109	Heat exchanger network cost optimization considering multiple utilities and different types of heat exchangers. <i>Computers and Chemical Engineering</i> , 2013 , 49, 194-204	4	23
108	A generic hybrid model development for process analysis of industrial fixed-bed catalytic reactors. <i>Chemical Engineering Research and Design</i> , 2017 , 117, 149-167	5.5	22
107	A multi-period model for optimal planning of an integrated, resource-efficient rice mill. <i>Computers and Chemical Engineering</i> , 2013 , 52, 77-89	4	21
106	Towards an integrated, resource-efficient rice mill complex. <i>Resources, Conservation and Recycling</i> , 2013 , 75, 41-51	11.9	20
105	A new quantitative overall environmental performance indicator for a wastewater treatment plant. <i>Journal of Cleaner Production</i> , 2017 , 167, 815-823	10.3	20

104	Generic Carbon Cascade Analysis technique for carbon emission management. <i>Applied Thermal Engineering</i> , 2014 , 70, 1141-1147	5.8	20
103	Simultaneous diagnosis and retrofit of heat exchanger network via individual process stream mapping. <i>Energy</i> , 2018 , 155, 1113-1128	7.9	20
102	Customised retrofit of heat exchanger network combining area distribution and targeted investment. <i>Energy</i> , 2019 , 179, 1054-1066	7.9	19
101	Industrial site water minimisation via one-way centralised water reuse header. <i>Journal of Cleaner Production</i> , 2018 , 200, 174-187	10.3	19
100	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	10.3	19
99	Energy Efficiency Award system in Malaysia for energy sustainability. <i>Renewable and Sustainable Energy Reviews</i> , 2010 , 14, 2279-2289	16.2	19
98	Industrial symbiosis tools – A review. <i>Journal of Cleaner Production</i> , 2021 , 280, 124327	10.3	19
97	Pinch Analysis targeting for CO2 Total Site planning. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 2227-2240	4.3	18
96	Peak-off-peak load shifting for optimal storage sizing in hybrid power systems using Power Pinch Analysis considering energy losses. <i>Energy</i> , 2018 , 156, 299-310	7.9	18
95	Heat Exchanger Network Design Considering Inherent Safety. <i>Energy Procedia</i> , 2014 , 61, 2469-2473	2.3	18
94	Process Integration for Hybrid Power System supply planning and demand management – A review. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 66, 834-842	16.2	18
93	A Process Integration Method for Total Site Cooling, Heating and Power Optimisation with Trigeneration Systems. <i>Energies</i> , 2019 , 12, 1030	3.1	17
92	Total Site Heat Integration Considering Pressure Drops. <i>Energies</i> , 2015 , 8, 1114-1137	3.1	16
91	Targeting the maximum heat recovery for systems with heat losses and heat gains. <i>Energy Conversion and Management</i> , 2014 , 87, 1098-1106	10.6	16
90	Sizing of Hybrid Power System with varying current type using numerical probabilistic approach. <i>Applied Energy</i> , 2016 , 184, 1364-1373	10.7	16
89	Effect of multiple water resources in a flexible-schedule batch water network. <i>Journal of Cleaner Production</i> , 2016 , 125, 245-252	10.3	15
88	Optimal Multi-Site Resource Allocation and Utility Planning for Integrated Rice Mill Complex. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 3816-3831	3.9	15
87	Holistic Approach for Design of Minimum Water Networks Using the Mixed Integer Linear Programming (MILP) Technique. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 5742-5751	3.9	15

86	A Review of Extraction Technology for Carotenoids and Vitamin E Recovery from Palm Oil. <i>Journal of Applied Sciences</i> , 2010 , 10, 1187-1191	0.3	15
85	Combined Pinch and exergy numerical analysis for low temperature heat exchanger network. <i>Energy</i> , 2018 , 153, 100-112	7.9	14
84	Maximising heat recovery in batch processes via product streams storage and shifting. <i>Journal of Cleaner Production</i> , 2016 , 112, 2802-2812	10.3	14
83	Total Site Heat and Power Integration for Locally Integrated Energy Sectors. <i>Energy</i> , 2020 , 204, 117959	7.9	13
82	Optimal Design and Sizing of Integrated Centralized and Decentralized Energy Systems. <i>Energy Procedia</i> , 2017 , 105, 3733-3740	2.3	13
81	A mathematical model for energy targeting of a batch process with flexible schedule. <i>Journal of Cleaner Production</i> , 2017 , 167, 1060-1067	10.3	12
80	Process modification of Total Site Heat Integration profile for capital cost reduction. <i>Applied Thermal Engineering</i> , 2015 , 89, 1023-1032	5.8	12
79	Prediction of Pd/C Catalyst Deactivation Rate and Assessment of Optimal Operating Conditions of Industrial Hydropurification Process. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 7067-7082	3.9	11
78	Optimal heat exchanger network synthesis with operability and safety considerations. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 2381-2400	4.3	11
77	Water Availability Footprint Addressing Water Quality. <i>Journal of Sustainable Development of Energy, Water and Environment Systems</i> , 2019 , 7, 72-86	1.9	11
76	Bio-adsorbent derived from papaya peel waste and magnetic nanoparticles fabricated for lead determination. <i>Pure and Applied Chemistry</i> , 2018 , 90, 79-92	2.1	11
75	Sensitivity analysis of hybrid power systems using Power Pinch Analysis considering Feed-in Tariff. <i>Energy</i> , 2016 , 116, 1260-1268	7.9	10
74	Synthesis of a sustainable integrated rice mill complex. <i>Journal of Cleaner Production</i> , 2014 , 71, 118-127	10.3	10
73	SePTA ² new numerical tool for simultaneous targeting and design of heat exchanger networks. <i>Computers and Chemical Engineering</i> , 2013 , 57, 30-47	4	10
72	Linearized Equations of Pseudo Second-order Kinetic for the Adsorption of Pb(II) on Pistacia Atlantica Shells. <i>IERI Procedia</i> , 2013 , 5, 232-237		10
71	A holistic approach for design of Cost-Optimal Water Networks. <i>Journal of Cleaner Production</i> , 2017 , 146, 194-207	10.3	10
70	Hybrid power systems design considering safety and resilience. <i>Chemical Engineering Research and Design</i> , 2018 , 120, 256-267	5.5	10
69	Simultaneous energy targeting, placement of utilities with flue gas, and design of heat recovery networks. <i>Applied Energy</i> , 2016 , 161, 605-610	10.7	9

68	Total Site Heat Integration Targeting Algorithm Incorporating Plant Layout Issues. <i>Computer Aided Chemical Engineering</i> , 2014 , 33, 1801-1806	0.6	9
67	Optimal Design of a Rice Mill Utility System with Rice Husk Logistic Network. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 362-373	3.9	9
66	A new graphical approach for simultaneous targeting and design of a paper recycling network. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011 , 6, 778-786	1.3	9
65	Graphical customisation of process and utility changes for heat exchanger network retrofit using individual stream temperature versus enthalpy plot. <i>Energy</i> , 2020 , 203, 117766	7.9	9
64	Integration of diesel plant into a hybrid power system using power pinch analysis. <i>Applied Thermal Engineering</i> , 2016 , 105, 792-798	5.8	9
63	A PLS-MGA analysis of farming characteristics on the intentions of smallholder oil palm planters to collect palm residues for biofuel production. <i>Biomass and Bioenergy</i> , 2019 , 120, 404-416	5.3	8
62	A Numerical Pinch Analysis Methodology for Optimal Sizing of a Centralized Trigeneration System with Variable Energy Demands. <i>Energies</i> , 2020 , 13, 2038	3.1	8
61	A new algebraic tool for simultaneous targeting and design of a mass exchange network with stream splitting for sustainable environment. <i>Journal of Cleaner Production</i> , 2020 , 249, 119361	10.3	8
60	Selection of minimum temperature difference (ΔT_{min}) for heat exchanger network synthesis based on trade-off plot. <i>Applied Energy</i> , 2016 , 162, 1259-1271	10.7	7
59	Maximizing Total Site Water Reuse via a Two-Way Centralized Water Header. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 2563-2573	8.3	7
58	Cost-effective Load Shifting for Hybrid Power Systems Using Power Pinch Analysis. <i>Energy Procedia</i> , 2014 , 61, 2464-2468	2.3	7
57	Sustainability Education for First Year Engineering Students using Cooperative Problem Based Learning. <i>Procedia, Social and Behavioral Sciences</i> , 2012 , 56, 52-58		7
56	Recent Developments on Ethylene Dimerization with Focus on Alphabutol Optimization. <i>International Journal of Innovative Technology and Exploring Engineering</i> , 2019 , 8, 3969-3975	1.6	7
55	Probability-Power Pinch Analysis targeting approach for diesel/biodiesel plant integration into hybrid power systems. <i>Energy</i> , 2019 , 187, 115913	7.9	6
54	Catalytic activity evaluation of industrial Pd/C catalyst via gray-box dynamic modeling and simulation of hydropurification reactor. <i>Applied Catalysis A: General</i> , 2015 , 489, 262-271	5.1	6
53	Water Footprints and Virtual Water Flows Embodied in the Power Supply Chain. <i>Water (Switzerland)</i> , 2020 , 12, 3006	3	6
52	A new framework for cost-effective design of Hybrid Power Systems. <i>Journal of Cleaner Production</i> , 2017 , 166, 806-815	10.3	6
51	Optimal design of water networks involving multiple contaminants for global water operations. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011 , 6, 771-777	1.3	6

50	Design of optimal heat exchanger network with fluctuation probability using break-even analysis. <i>Energy</i> , 2020 , 212, 118583	7.9	6
49	A new graphical approach for simultaneous targeting and design of mass exchange networks. <i>Computers and Chemical Engineering</i> , 2020 , 142, 107061	4	6
48	Power Pinch Analysis supply side management: strategy on purchasing and selling of electricity. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 2401-2418	4.3	6
47	Total Site Material Recycling Network Design and Headers Targeting Framework with Minimal Cross-Plant Source Transfer. <i>Computers and Chemical Engineering</i> , 2021 , 151, 107364	4	6
46	Malaysia scenario of biomass supply chain-cogeneration system and optimization modeling development: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 148, 111289	16.2	6
45	Multi-objective optimal design for integrated palm oil mill complex with consideration of effluent elimination. <i>Energy</i> , 2020 , 202, 117767	7.9	5
44	A systematic technique for cost-effective CO ₂ emission reduction in process plants. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 1769-1777	4.3	5
43	Recent advances in resource conservation and planning—review. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2011 , 6, 689-695	1.3	5
42	A new green index as an overall quantitative green performance indicator of a facility. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 2161-2171	4.3	5
41	Temperature Disturbance Management in a Heat Exchanger Network for Maximum Energy Recovery Considering Economic Analysis. <i>Energies</i> , 2019 , 12, 594	3.1	5
40	Techno-economic analysis of carbon dioxide capture and utilisation analysis for an industrial site with fuel cell integration. <i>Journal of Cleaner Production</i> , 2021 , 281, 124920	10.3	5
39	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	10.3	5
38	A pinch-based multi-energy targeting framework for combined chilling heating power microgrid of urban-industrial symbiosis. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 150, 111482	16.2	5
37	Solubility Parameter Prediction for Kacip Fatimah Herb using Group Contribution-Based Models. <i>Computer Aided Chemical Engineering</i> , 2014 , 33, 1225-1230	0.6	4
36	Recent Developments in Advanced Process Integration: Learning the Lessons from Industrial Implementations. <i>Applied Mechanics and Materials</i> , 2014 , 625, 454-457	0.3	4
35	A Numerical Tool for Integrating Renewable Energy into Total Sites with Variable Supply and Demand. <i>Computer Aided Chemical Engineering</i> , 2012 , 1347-1351	0.6	4
34	Water Pinch Analysis for Water Management and Minimisation: An Introduction 2013 , 353-382		4
33	Towards water integration in Eco-Industrial Park: An overview of water recovery from industries. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 702, 012015	0.4	4

32	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	2.3	3
31	Water pinch analysis evolution towards a holistic approach for water minimization. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2007 , 2, 544-553	1.3	3
30	A Systematic Method for Cost-effective Carbon Emission Reduction in Buildings. <i>Journal of Applied Sciences</i> , 2012 , 12, 1186-1190	0.3	3
29	Synthesis of optimal biogas production system from multiple sources of wastewater and organic waste. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 702, 012014	0.4	3
28	Roles of geospatial technology in eco-industrial park site selection: State-of-the-art review. <i>Journal of Cleaner Production</i> , 2021 , 309, 127361	10.3	3
27	Optimization of energy-water-waste nexus at district level: A techno-economic approach. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 152, 111637	16.2	3
26	Computer-Aided Approach for Designing Solvents Blend for Herbal Phytochemical Extraction. <i>Computer Aided Chemical Engineering</i> , 2015 , 1427-1432	0.6	2
25	Effect of Delta Temperature Minimum Contribution in Obtaining an Operable and Flexible Heat Exchanger Network. <i>Energy Procedia</i> , 2015 , 75, 3142-3147	2.3	2
24	Design Target Selection for Heat Exchanger Network Synthesis Based on Trade-off Plot. <i>Energy Procedia</i> , 2014 , 61, 2621-2624	2.3	2
23	A Numerical Analysis for Total Site Sensitivity. <i>Computer Aided Chemical Engineering</i> , 2012 , 560-564	0.6	2
22	A new technique for multiple resources targeting and optimization: Application to water-energy nexus. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 46, 101213	4.7	2
21	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	10.3	2
20	Design of Total Site-Integrated Trigeneration System using trigeneration cascade analysis considering transmission losses and sensitivity analysis. <i>Energy</i> , 2022 , 252, 123958	7.9	2
19	Electricity Load Reduction in Hybrid Power Systems Using Power Pinch Analysis. <i>Computer Aided Chemical Engineering</i> , 2014 , 33, 1495-1500	0.6	1
18	A mixed integer linear programming (MILP) model for optimal design of water network 2011 ,		1
17	Design of Integrated Palm Oil Based Complex via Food-Energy-Water Nexus Optimization Framework 2020 , 75-99		1
16	A New Method To Determine The Optimum Heat Exchanger Network Approach Temperature. <i>Computer Aided Chemical Engineering</i> , 2012 , 31, 190-194	0.6	1
15	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	10.3	1

14	A framework of resource conservation process integration for eco-industrial site planning. <i>Journal of Cleaner Production</i> , 2021 , 316, 128268	10.3	1
13	Optimal Sizing of a Trigeneration Plant Integrated with Total Site System Considering Multi-period and Energy Losses. <i>E3S Web of Conferences</i> , 2021 , 287, 03014	0.5	1
12	Industrial site water exchange network synthesis considering multiple quality constraints and water headers.. <i>Journal of Environmental Management</i> , 2022 , 312, 114890	7.9	0
11	Supply and demand planning and management tools toward low carbon emissions 2015 , 451-477		
10	Feasibility, Flexibility and Sensitivity Tests on Delta Temperature Minimum to Obtain Operable and Flexible Heat Exchanger Network. <i>Applied Mechanics and Materials</i> , 2015 , 735, 299-303	0.3	
9	A New Tool For Simultaneous Targeting And Design Of Heat Exchanger Networks. <i>Computer Aided Chemical Engineering</i> , 2012 , 31, 1547-1551	0.6	
8	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> , 2018 , 1, 1-12	4.3	
7	A new framework for optimisation of Pressurised Water Reactor design as a trigeneration system. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 555, 012005	0.4	
6	4. Total Site Integration 2018 , 103-170		
5	5. An Integrated Pinch Analysis Framework for Low CO ₂ Industrial Site Planning 2018 , 171-190		
4	1. Process Integration and Intensification: An Introduction 2018 , 1-12		
3	10. Conclusions and sources of further information 2018 , 287-308		
2	Maximising the valorisation of organic waste locally available via carbon-to-nitrogen ratio Supply Composite Curve shifting. <i>Journal of Cleaner Production</i> , 2022 , 132389	10.3	
1	The economic study of centralised water reuse exchange system in the industrial park considering wastewater segregation. <i>Computers and Chemical Engineering</i> , 2022 , 107863	4	