

Zainuddin Abdul Manan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

3,062
citations

29
h-index

53
g-index

98
ext. papers

3,422
ext. citations

6.4
avg, IF

5.55
L-index

#	Paper	IF	Citations
95	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
94	Targeting the minimum water flow rate using water cascade analysis technique. <i>AIChE Journal</i> , 2004 , 50, 3169-3183	3.6	283
93	Setting the Minimum Utility Gas Flowrate Targets Using Cascade Analysis Technique. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 5986-5995	3.9	129
92	Surplus diagram and cascade analysis technique for targeting property-based material reuse network. <i>Chemical Engineering Science</i> , 2006 , 61, 2626-2642	4.4	125
91	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
90	Synthesis of maximum water recovery network for batch process systems. <i>Journal of Cleaner Production</i> , 2005 , 13, 1381-1394	10.3	97
89	Industrial implementation issues of Total Site Heat Integration. <i>Applied Thermal Engineering</i> , 2013 , 61, 17-25	5.8	75
88	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
87	A numerical technique for Total Site sensitivity analysis. <i>Applied Thermal Engineering</i> , 2012 , 40, 397-408	5.8	71
86	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
85	Advances in Process Integration research for CO2 emission reduction—A review. <i>Journal of Cleaner Production</i> , 2017 , 167, 1-13	10.3	69
84	Process integration of hybrid power systems with energy losses considerations. <i>Energy</i> , 2013 , 55, 38-45	7.9	67
83	Process Integration techniques for optimal design of hybrid power systems. <i>Applied Thermal Engineering</i> , 2013 , 61, 26-35	5.8	61
82	Optimal sizing of hybrid power systems using power pinch analysis. <i>Journal of Cleaner Production</i> , 2014 , 71, 158-167	10.3	57
81	Herbal Processing and Extraction Technologies. <i>Separation and Purification Reviews</i> , 2016 , 45, 305-320	7.3	54
80	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
79	Centralised utility system planning for a Total Site Heat Integration network. <i>Computers and Chemical Engineering</i> , 2013 , 57, 104-111	4	50

78	A retrofit framework for Total Site heat recovery systems. <i>Applied Energy</i> , 2014 , 135, 778-790	10.7	49
77	Algorithmic targeting for Total Site Heat Integration with variable energy supply/demand. <i>Applied Thermal Engineering</i> , 2014 , 70, 1073-1083	5.8	48
76	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
75	An integrated Pinch Analysis framework for low CO ₂ emissions industrial site planning. <i>Journal of Cleaner Production</i> , 2017 , 146, 125-138	10.3	39
74	Process modifications to maximise energy savings in total site heat integration. <i>Applied Thermal Engineering</i> , 2015 , 78, 731-739	5.8	38
73	Rate-based simulation and comparison of various promoters for CO ₂ capture in industrial DEA-promoted potassium carbonate absorption unit. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 22, 306-316	6.3	38
72	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
71	SHARPS: A new cost-screening technique to attain cost-effective minimum water network. <i>AICHE Journal</i> , 2006 , 52, 3981-3988	3.6	33
70	Peak-off-peak load shifting for hybrid power systems based on Power Pinch Analysis. <i>Energy</i> , 2015 , 90, 128-136	7.9	30
69	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
68	State-of-the-art of hydrogen management in refinery and industrial process plants. <i>Journal of Natural Gas Science and Engineering</i> , 2015 , 24, 346-356	4.6	29
67	Comparison of equilibrium and non-equilibrium models of a tray column for post-combustion CO ₂ capture using DEA-promoted potassium carbonate solution. <i>Chemical Engineering Science</i> , 2015 , 122, 291-298	4.4	29
66	Total Site Heat Integration incorporating the water sensible heat. <i>Journal of Cleaner Production</i> , 2014 , 77, 94-104	10.3	29
65	Synthesis of mass exchange network for batch processes Part II: Minimum units target and batch network design. <i>Chemical Engineering Science</i> , 2005 , 60, 1349-1362	4.4	28
64	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
63	Targeting Multiple Water Utilities Using Composite Curves. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 5968-5976	3.9	27
62	Retrofit of Water Network with Optimization of Existing Regeneration Units. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7592-7602	3.9	26
61	Correct identification of limiting water data for water network synthesis. <i>Clean Technologies and Environmental Policy</i> , 2006 , 8, 96-104	4.3	26

60	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
59	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
58	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
57	Towards an integrated, resource-efficient rice mill complex. <i>Resources, Conservation and Recycling</i> , 2013 , 75, 41-51	11.9	20
56	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
55	Generic Carbon Cascade Analysis technique for carbon emission management. <i>Applied Thermal Engineering</i> , 2014 , 70, 1141-1147	5.8	20
54	Simultaneous diagnosis and retrofit of heat exchanger network via individual process stream mapping. <i>Energy</i> , 2018 , 155, 1113-1128	7.9	20
53	Customised retrofit of heat exchanger network combining area distribution and targeted investment. <i>Energy</i> , 2019 , 179, 1054-1066	7.9	19
52	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
51	Industrial symbiosis tools – a review. <i>Journal of Cleaner Production</i> , 2021 , 280, 124327	10.3	19
50	Pinch Analysis targeting for CO ₂ Total Site planning. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 2227-2240	4.3	18
49	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
48	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
47	A Process Integration Method for Total Site Cooling, Heating and Power Optimisation with Trigeration Systems. <i>Energies</i> , 2019 , 12, 1030	3.1	17
46	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
45	Optimal Multi-Site Resource Allocation and Utility Planning for Integrated Rice Mill Complex. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 3816-3831	3.9	15
44	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
43	A new reactor concept for combining oxidative coupling and steam re-forming of methane: modeling and analysis. <i>International Journal of Energy Research</i> , 2013 , 37, 129-152	4.5	13

42	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
41	Process modification of Total Site Heat Integration profile for capital cost reduction. <i>Applied Thermal Engineering</i> , 2015 , 89, 1023-1032	5.8	12
40	Effects of Ultrasonic Waves on Vapor-Liquid Equilibrium of an Azeotropic Mixture. <i>Separation Science and Technology</i> , 2009 , 44, 2707-2719	2.5	12
39	Process Integration and Intensification 2014 ,		12
38	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
37	Sensitivity analysis of hybrid power systems using Power Pinch Analysis considering Feed-in Tariff. <i>Energy</i> , 2016 , 116, 1260-1268	7.9	10
36	Synthesis of a sustainable integrated rice mill complex. <i>Journal of Cleaner Production</i> , 2014 , 71, 118-127	10.3	10
35	A holistic approach for design of Cost-Optimal Water Networks. <i>Journal of Cleaner Production</i> , 2017 , 146, 194-207	10.3	10
34	Hybrid power systems design considering safety and resilience. <i>Chemical Engineering Research and Design</i> , 2018 , 120, 256-267	5.5	10
33	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
32	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
31	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
30	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
29	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
28	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
27	Cost-effective Load Shifting for Hybrid Power Systems Using Power Pinch Analysis. <i>Energy Procedia</i> , 2014 , 61, 2464-2468	2.3	7
26	Kinetics investigation of direct natural gas conversion by oxidative coupling of methane. <i>Journal of Natural Gas Science and Engineering</i> , 2010 , 2, 270-274	4.6	7
25	Application of the water cascade analysis technique for water minimisation in a paper mill plant. <i>International Journal of Environment and Pollution</i> , 2007 , 29, 90	0.7	7

24	Probability-Power Pinch Analysis targeting approach for diesel/biodiesel plant integration into hybrid power systems. <i>Energy</i> , 2019 , 187, 115913	7.9	6
23	A new framework for cost-effective design of Hybrid Power Systems. <i>Journal of Cleaner Production</i> , 2017 , 166, 806-815	10.3	6
22	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
21	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
20	A systematic technique for cost-effective CO2 emission reduction in process plants. <i>Clean Technologies and Environmental Policy</i> , 2016 , 18, 1769-1777	4.3	5
19	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
18	Temperature Disturbance Management in a Heat Exchanger Network for Maximum Energy Recovery Considering Economic Analysis. <i>Energies</i> , 2019 , 12, 594	3.1	5
17	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
16	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
15	Water Pinch Analysis for Water Management and Minimisation: An Introduction 2013 , 353-382		4
14	Batch process integration for resource conservation toward cleaner production [A state-of-the-art review. <i>Journal of Cleaner Production</i> , 2021 , 318, 128609	10.3	3
13	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
12	Design Target Selection for Heat Exchanger Network Synthesis Based on Trade-off Plot. <i>Energy Procedia</i> , 2014 , 61, 2621-2624	2.3	2
11	A Numerical Analysis for Total Site Sensitivity. <i>Computer Aided Chemical Engineering</i> , 2012 , 560-564	0.6	2
10	Electricity Load Reduction in Hybrid Power Systems Using Power Pinch Analysis. <i>Computer Aided Chemical Engineering</i> , 2014 , 33, 1495-1500	0.6	1
9	A framework of resource conservation process integration for eco-industrial site planning. <i>Journal of Cleaner Production</i> , 2021 , 316, 128268	10.3	1
8	Supply and demand planning and management tools toward low carbon emissions 2015 , 451-477		
7	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	

6 4. Total Site Integration **2018**, 103-170

5 5. An Integrated Pinch Analysis Framework for Low CO₂ Industrial Site Planning **2018**, 171-190

4 6. Introduction to Water Pinch Analysis **2018**, 191-204

3 7. Setting the maximum water recovery targets **2018**, 205-230

2 1. Process Integration and Intensification: An Introduction **2018**, 1-12

1 10. Conclusions and sources of further information **2018**, 287-308