Santanu Bandyopadhyay

List of Publications by Year
in descending order

203	5,521	87843 38	106281 65
papers	citations	h-index	g-index

217	217	217	3930
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Circular economy meets the drawdown economy: Enhanced weathering of industrial solid waste as a win-win solution. Resources, Conservation and Recycling, 2022, 178, 106029.	5.3	7
2	Optimizing the resource cost in multiple resources allocation problem with parametric uncertainties. Chemical Engineering Research and Design, 2022, 178, 25-37.	2.7	4
3	Physical distancing on public transport in Mumbai, India: Policy and planning implications for unlock and post-pandemic period. Transport Policy, 2022, 116, 217-236.	3.4	9
4	Stochastic Pinch Analysis to address multi-objective resources conservation problems with parametric uncertainties. Chemical Engineering Research and Design, 2022, 162, 30-48.	2.7	1
5	A novel approach for produced water treatment: Supercritical water oxidation and desalination. Desalination, 2022, 532, 115716.	4.0	4
6	Optimization of regeneration temperature for energy integrated water allocation networks. Cleaner Engineering and Technology, 2022, , 100490.	2.1	1
7	Uncertainties in the resource conservation problems: a review. Clean Technologies and Environmental Policy, 2022, 24, 2681-2699.	2.1	2
8	Do Socioeconomic Characteristics Affect Travel Time and Transport Perception? Insights from Mumbai, India. Lecture Notes in Civil Engineering, 2021, , 171-181.	0.3	0
9	Milestones and Best Papers 2017â€“2020. Process Integration and Optimization for Sustainability, 2021, 5, 1-2.	1.4	3
10	Thermal engineering for sustainable technologies. Clean Technologies and Environmental Policy, 2021, 23, 1063-1063.	2.1	1
11	Targeting segregated problems with common resources through Pinch Analysis. Journal of Cleaner Production, 2021, 301, 126996.	4.6	5
12	Optimum Integration of Regeneration in Heat-Integrated Water Networks Through a Hybrid Approach. Process Integration and Optimization for Sustainability, 2021, 5, 707.	1.4	1
13	Rethinking water policy in India with the scope of metering towards sustainable water future. Clean Technologies and Environmental Policy, 2021, 23, 2471-2495.	2.1	3
14	Bi-objective Pinch Analysis of heat integrated water conservation networks. Journal of Cleaner Production, 2021, 312, 127676.	4.6	11
15	Market prospects for biochar production and application in California. Biofuels, Bioproducts and Biorefining, 2021, 15, 1802-1819.	1.9	31
16	A hybrid approach for heat integration in water conservation networks through non-isothermal mixing. Energy, 2021, 233, 121143.	4.5	9
17	Pinch-based planning of terrestrial carbon management networks. Cleaner Engineering and Technology, 2021, 4, 100141.	2.1	8
18	Subsidised water symbiosis of eco-industrial parks: A multi-stage game theory approach. Computers and Chemical Engineering, 2021, 155, 107539.	2.0	24

#	Article	IF	Citations
19	Capacity expansion of power plants using dynamic energy analysis. Clean Technologies and Environmental Policy, 2021, 23, 669-683.	2.1	5
20	All forms of energy are equal, but some forms of energy are more equal than others. Clean Technologies and Environmental Policy, 2021, 23, 2775-2776.	2.1	0
21	The role of process integration in managing resource constraints on negative emissions technologies. Resources, Conservation and Recycling, 2020, 153, 104540.	5.3	18
22	Capacity Expansion of Electricity Sector Using Multiple Sustainability Indicators. Process Integration and Optimization for Sustainability, 2020, 4, 51-65.	1.4	10
23	Public transport during pandemic. Clean Technologies and Environmental Policy, 2020, 22, 1755-1756.	2.1	8
24	Technoeconomic and emissions evaluation of mobile in-woods biochar production. Energy Conversion and Management, 2020, 223, 113305.	4.4	18
25	Interval Pinch Analysis for Resource Conservation Networks with Epistemic Uncertainties. Industrial & Engineering Chemistry Research, 2020, 59, 13669-13681.	1.8	20
26	Optimizing the Redevelopment Cost of Urban Areas to Minimize the Fire Susceptibility of Heterogeneous Urban Settings in Developing Nations: a Case from Mumbai, India. Process Integration and Optimization for Sustainability, 2020, 4, 361-378.	1.4	5
27	Life cycle assessment of rice husk torrefaction and prospects for decentralized facilities at rice mills. Journal of Cleaner Production, 2020, 275, 123177.	4.6	36
28	Pinch analysis to reduce fire susceptibility by redeveloping urban built forms. Clean Technologies and Environmental Policy, 2020, 22, 1531-1546.	2.1	11
29	Oxidative torrefaction for cleaner utilization of biomass for soil amendment. Cleaner Engineering and Technology, 2020, 1, 100033.	2.1	12
30	Optimizing the Modal Split to Reduce Carbon Dioxide Emission for Resource-Constrained Societies. Transportation Research Procedia, 2020, 48, 2063-2073.	0.8	4
31	Thermal loss analysis and improvements for biomass conversion reactors. Energy Conversion and Management, 2020, 218, 112924.	4.4	11
32	Coronavirus Disease 2019 (COVID-19): we shall overcome. Clean Technologies and Environmental Policy, 2020, 22, 545-546.	2.1	24
33	Biochar mines: Panacea to climate change and energy crisis?. Clean Technologies and Environmental Policy, 2020, 22, 5-10.	2.1	22
34	Optimization of solar thermal systems with a thermocline storage tank. Clean Technologies and Environmental Policy, 2020, 22, 1069-1084.	2.1	13
35	Pinch Analysis for Economic Appraisal of Sustainable Projects. Process Integration and Optimization for Sustainability, 2020, 4, 171-182.	1.4	11
36	Let us â€˜bring back the forestâ€™. Clean Technologies and Environmental Policy, 2019, 21, 1381-1381.	2.1	1

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37	Bi-Objective Optimization of Interplant Integration Using Pinch Analysis. Industrial & Engineering Chemistry Research, 2019, 58, 20014-20025.	1.8	9
38	A Pinch-Based Approach for Targeting Carbon Capture, Utilization, and Storage Systems. Industrial & Engineering Chemistry Research, 2019, 58, 3188-3198.	1.8	20
39	Synthesis of Heat-Integrated Water Allocation Networks Through Pinch Analysis. Process Integration and Optimization for Sustainability, 2019, 3, 515-531.	1.4	10
40	Iterative Pinch Analysis to address non-linearity in a stochastic Pinch problem. Journal of Cleaner Production, 2019, 227, 543-553.	4.6	11
41	Multi-objective optimisation for segregated targeting problems using Pinch Analysis. Journal of Cleaner Production, 2019, 221, 339-352.	4.6	22
42	The first step towards energy revolution. Clean Technologies and Environmental Policy, 2019, 21, 227-228.	2.1	3
43	Optimal Synthesis of Heat-Integrated Water Regeneration Network. Industrial & Engineering Chemistry Research, 2019, 58, 1310-1321.	1.8	12
44	Co-gasification of high ash biomass and high ash coal in downdraft gasifier. Bioresource Technology, 2019, 273, 159-168.	4.8	77
45	Optimization of Financial Expenditure to Improve Urban Recreational Open Spaces Using Pinch Analysis: a Case of Three Indian Cities. Process Integration and Optimization for Sustainability, 2019, 3, 273-284.	1.4	9
46	Introduction to Isolated Energy Systems. , 2019, , 1-15.		1
47	Modelling of Isolated Systems. , 2019, , 33-67.		0
48	Probabilistic Modelling and Optimization. , 2019, , 97-126.		0
49	Design and Optimization of Wind-PV-Battery Hybrid System. , 2019, , 167-180.		0
50	Assessment of Different Technologies for Managing Yard Waste Using Analytic Hierarchy Process. Process Integration and Optimization for Sustainability, 2019, 3, 255-272.	1.4	15
51	Multiple Wind Generator Systems. , 2019, , 141-165.		0
52	Non-convexity in the Design Space of Wind-Battery Systems. , 2019, , 127-140.		0
53	Numerical modeling and analysis of dual medium thermocline thermal energy storage. Journal of Energy Storage, 2018, 16, 218-230.	3.9	23
54	Thermodynamic evaluation of chemical looping based nitric oxide and hydrogen production. Chemical Engineering Research and Design, 2018, 132, 252-275.	2.7	4

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55	Graphical Pinch Analysis for Planning Biochar-Based Carbon Management Networks. Process Integration and Optimization for Sustainability, 2018, 2, 159-168.	1.4	19
56	Financial Pinch Analysis: Minimum opportunity cost targeting algorithm. Journal of Environmental Management, 2018, 212, 88-98.	3.8	15
57	Renewable electricity: a hope for the future. Clean Technologies and Environmental Policy, 2018, 20, 227-227.	2.1	0
58	CO2 gasification of char from lignocellulosic garden waste: Experimental and kinetic study. Bioresource Technology, 2018, 263, 180-191.	4.8	85
59	Benchmarking Energy Consumption of Truck Haulage. Green Energy and Technology, 2018, , 159-180.	0.4	4
60	Stochastic Pinch Analysis To Optimize Resource Allocation Networks. Industrial & Engineering Chemistry Research, 2018, 57, 16423-16432.	1.8	17
61	Synthesis of Heat-integrated Water Network with Interception Unit. Computer Aided Chemical Engineering, 2018, , 457-462.	0.3	2
62	Revamping downdraft gasifier to minimize clinker formation for high-ash garden waste as feedstock. Bioresource Technology, 2018, 266, 220-231.	4.8	44
63	Cost Optimal Segregated Targeting Problems with Dedicated Sources. Process Integration and Optimization for Sustainability, 2018, 2, 143-158.	1.4	10
64	Multiple objectives Pinch Analysis. Resources, Conservation and Recycling, 2017, 119, 128-141.	5.3	24
65	Line-focusing concentrating solar collector-based power plants: a review. Clean Technologies and Environmental Policy, 2017, 19, 9-35.	2.1	29
66	Effect of placement of droop based generators in distribution network on small signal stability margin and network loss. International Journal of Electrical Power and Energy Systems, 2017, 88, 108-118.	3.3	25
67	Renewable targets for India. Clean Technologies and Environmental Policy, 2017, 19, 293-294.	2.1	15
68	Energy sector planning using multiple-index pinch analysis. Clean Technologies and Environmental Policy, 2017, 19, 1967-1975.	2.1	22
69	Resource Allocation Network for Segregated Targeting Problems with Dedicated Sources. Industrial & Engineering Chemistry Research, 2017, 56, 13831-13843.	1.8	8
70	Selection of energy conservation projects through Financial Pinch Analysis. Energy, 2017, 138, 602-615.	4.5	40
71	A pinch analysis approach to project selection problem. , 2017, , .		3
72	Evaluating sustainable economic development. Clean Technologies and Environmental Policy, 2017, 19, 1815-1816.	2.1	7

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73	Pinch analysis approach to optimal planning of biochar-based carbon management networks. , 2017, , .		5
74	Optimal Temperature Selection for Energy Integrated Multiple-Effect Evaporator System. Process Integration and Optimization for Sustainability, 2017, 1, 189-202.	1.4	4
75	Energy integration of multiple-effect evaporator, thermo-vapor compressor, and background process. Journal of Cleaner Production, 2017, 164, 1192-1204.	4.6	24
76	Pursuing Sustainability with Process Integration and Optimization. Process Integration and Optimization for Sustainability, 2017, 1, 1-2.	1.4	2
77	Power Pinch Analysis for optimal sizing of renewable-based isolated system with uncertainties. Energy, 2017, 135, 466-475.	4.5	30
78	Solar assisted multiple-effect evaporator. Journal of Cleaner Production, 2017, 142, 2340-2351.	4.6	30
79	A Mixed Integer Linear Programming (MILP) Model for Optimal Operation of Industrial Resource Conservation Networks (RCNs) Under Abnormal Conditions. Computer Aided Chemical Engineering, 2017, , 607-612.	0.3	2
80	Pinch Analysis as a Quantitative Decision Framework for Determining Gaps in Health Care Delivery Systems. Process Integration and Optimization for Sustainability, 2017, 1, 213-223.	1.4	18
81	Segregated targeting for resource allocation networks with dedicated sources. , 2017, , .		0
82	Sustainability in Power Generation Systems. , 2017, , 157-163.		2
83	Multi-objective pinch analysis for power system planning. Applied Energy, 2017, 202, 335-347.	5.1	23
84	6 Bioenergy and Food Production: Appropriate Allocation for Future Development. Green Chemistry and Chemical Engineering, 2017, , 221-234.	0.0	0
85	Bioenergy and Food Production: Appropriate Allocation for Future Development. , 2017, , 221-234.		0
86	Cost optimal energy sector planning: a Pinch Analysis approach. Journal of Cleaner Production, 2016, 136, 246-253.	4.6	31
87	Thermo-economic comparisons between solar steam Rankine and organic Rankine cycles. Applied Thermal Engineering, 2016, 105, 862-875.	3.0	63
88	Optimization of photovoltaicâ€“thermal (PVT) based cogeneration system through water replenishment profile. Solar Energy, 2016, 133, 512-523.	2.9	27
89	Sunny days are ahead, but not without challenges. Clean Technologies and Environmental Policy, 2016, 18, 981-982.	2.1	0
90	An alternative process for nitric oxide and hydrogen production using metal oxides. Chemical Engineering Research and Design, 2016, 112, 36-45.	2.7	8

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91	Integration of thermo-vapor compressor with multiple-effect evaporator. Applied Energy, 2016, 184, 560-573.	5.1	34
92	Energy optimization in parallel/cross feed multiple-effect evaporator based desalination system. Energy, 2016, 111, 756-767.	4.5	23
93	Modified predictive current control of Neutral-Point Clamped converter with reduced switching frequency. , 2016, , .		4
94	Exergy efficiency improvement in hydrogen production process by recovery of chemical energy versus thermal energy. Clean Technologies and Environmental Policy, 2016, 18, 1391-1404.	2.1	8
95	Thermo-economic analysis and selection of working fluid for solar organic Rankine cycle. Applied Thermal Engineering, 2016, 95, 471-481.	3.0	134
96	Effect of multiple water resources in a flexible-schedule batch water network. Journal of Cleaner Production, 2016, 125, 245-252.	4.6	19
97	Energy Integration of Multiple Effect Evaporators with Background Process and Appropriate Temperature Selection. Industrial & Engineering Chemistry Research, 2016, 55, 1630-1641.	1.8	23
98	Maximising heat recovery in batch processes via product streams storage and shifting. Journal of Cleaner Production, 2016, 112, 2802-2812.	4.6	15
99	Energy Modelling of Thermal Oil Based Cooking System. Energy Procedia, 2015, 75, 1746-1751.	1.8	5
100	Analysis of unstable periodic orbits and chaotic orbits in the one-dimensional linear piecewise-smooth discontinuous map. Chaos, 2015, 25, 103101.	1.0	6
101	Careful with your energy efficiency program! It may â€˜reboundâ€™!. Clean Technologies and Environmental Policy, 2015, 17, 1381-1382.	2.1	5
102	Integration of parabolic trough and linear Fresnel collectors for optimum design of concentrating solar thermal power plant. Clean Technologies and Environmental Policy, 2015, 17, 1945-1961.	2.1	26
103	To save the sun for a rainy day and to save the rain for a sunny day. Clean Technologies and Environmental Policy, 2015, 17, 1-2.	2.1	3
104	Optimum sizing of supply equipment for time varying demand. Computers and Chemical Engineering, 2015, 83, 72-78.	2.0	4
105	Targeting Aggregate Production Planning for an Energy Supply Chain. Industrial & Engineering Chemistry Research, 2015, 54, 6941-6949.	1.8	12
106	Analysis of gas turbine integrated cogeneration plant: Process integration approach. Applied Thermal Engineering, 2015, 78, 118-128.	3.0	33
107	Optimization of concentrating solar thermal power plant based on parabolic trough collector. Journal of Cleaner Production, 2015, 89, 262-271.	4.6	105
108	A1 MW National Solar Thermal Research Cum Demonstration Facility at Gwalpahari, Haryana, India. Current Science, 2015, 109, 1445.	0.4	3

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109	Screening Curve Method for Optimum Source Sizing to Satisfy Time Varying Demand. Computer Aided Chemical Engineering, 2014, , 1573-1578.	0.3	2
110	Synthesis of Biomass-based Trigeneration Systems with Uncertainties. Industrial & Engineering Chemistry Research, 2014, 53, 18016-18028.	1.8	24
111	Simulation of 1MWe Solar Thermal Power Plant. Energy Procedia, 2014, 57, 507-516.	1.8	26
112	Targeting Compression Work for Hydrogen Allocation Networks. Industrial & Engineering Chemistry Research, 2014, 53, 18539-18548.	1.8	26
113	Optimum source sizing to satisfy time varying demand. , 2014, , .		1
114	Simultaneously targeting for the minimum water requirement and the maximum production in a batch process. Journal of Cleaner Production, 2014, 77, 105-115.	4.6	24
115	Cost optimal segregated targeting for resource allocation networks. Clean Technologies and Environmental Policy, 2014, 16, 455-465.	2.1	15
116	The answer is not blowinâ€™ in the wind, or is it?. Clean Technologies and Environmental Policy, 2014, 16, 211-212.	2.1	1
117	An Active Harmonic Filter Based on One-Cycle Control. IEEE Transactions on Industrial Electronics, 2014, 61, 3799-3809.	5.2	41
118	Indirect thermal integration for batch processes. Applied Thermal Engineering, 2014, 62, 229-238.	3.0	28
119	Benchmarking energy consumption for dump trucks in mines. Applied Energy, 2014, 113, 1382-1396.	5.1	56
120	Thermal integration of heat transfer fluid systems. Asia-Pacific Journal of Chemical Engineering, 2014, 9, 1-15.	0.8	7
121	Water and energy assessment for dewatering in opencast mines. Journal of Cleaner Production, 2014, 84, 736-745.	4.6	15
122	Optimization of design radiation for concentrating solar thermal power plants without storage. Solar Energy, 2014, 107, 98-112.	2.9	54
123	Minimization of Thermal Oil Flow Rate for Indirect Integration of Multiple Plants. Industrial & Engineering Chemistry Research, 2014, 53, 13146-13156.	1.8	32
124	Cost-benefit analysis of different hydrogen production technologies using AHP and Fuzzy AHP. International Journal of Hydrogen Energy, 2014, 39, 15293-15306.	3.8	67
125	Optimization of Multiple Freshwater Resources in a Flexible-Schedule Batch Water Network. Industrial & Engineering Chemistry Research, 2014, 53, 5996-6005.	1.8	21
126	Targeting for optimal grid-wide deployment of carbon capture and storage (CCS) technology. Chemical Engineering Research and Design, 2014, 92, 835-848.	2.7	43

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127	Unified pinch approach for targeting of carbon capture and storage (CCS) systems with multiple time periods and regions. Journal of Cleaner Production, 2014, 71, 67-74.	4.6	50
128	Power system planning with emission constraints: Effects of CCS retrofitting. Chemical Engineering Research and Design, 2014, 92, 447-455.	2.7	19
129	Design and Optimization of Isolated Wind-Battery Systems Incorporating Multiple Wind Generators. Wind Engineering, 2014, 38, 311-336.	1.1	3
130	Optimal sourceâ€“sink matching in carbon capture and storage systems with time, injection rate, and capacity constraints. Environmental Progress and Sustainable Energy, 2013, 32, 411-416.	1.3	49
131	Emission constrained power system planning: a pinch analysis based study of Indian electricity sector. Clean Technologies and Environmental Policy, 2013, 15, 771-782.	2.1	51
132	Sizing of standalone photovoltaic thermal (PVT) systems using design space approach. Solar Energy, 2013, 97, 48-57.	2.9	15
133	Unified Approach for the Optimization of Energy and Water in Multipurpose Batch Plants Using a Flexible Scheduling Framework. Industrial & Engineering Chemistry Research, 2013, 52, 8488-8506.	1.8	19
134	A Graphical Approach for Pinch-Based Sourceâ€“Sink Matching and Sensitivity Analysis in Carbon Capture and Storage Systems. Industrial & Engineering Chemistry Research, 2013, 52, 7211-7222.	1.8	41
135	Targeting for multiple resources in batch processes. Chemical Engineering Science, 2013, 104, 1081-1089.	1.9	10
136	Optimum Design of Waste Water Treatment Network. Industrial & Engineering Chemistry Research, 2013, 52, 5161-5171.	1.8	10
137	One-Cycle-Controlled Single-Stage Single-Phase Voltage-Sensorless Grid-Connected PV System. IEEE Transactions on Industrial Electronics, 2013, 60, 1216-1224.	5.2	107
138	Applications of Pinch Analysis in the Design of Isolated Energy Systems. , 2013, , 1038-1056.		2
139	Efficacy of Chemical Oxidation and Coagulation for COD and Color Reduction from Pulp Mill Effluent. Journal of Environmental Engineering, ASCE, 2012, 138, 1194-1199.	0.7	8
140	Minimization of storage requirement in a batch process using pinch analysis. Computer Aided Chemical Engineering, 2012, , 670-674.	0.3	4
141	Analysis of stable periodic orbits in the one dimensional linear piecewise-smooth discontinuous map. Chaos, 2012, 22, 033126.	1.0	8
142	Analysis of high temperature thermal energy storage for solar power plant. , 2012, , .		19
143	Continuous-Time Optimization Model for Sourceâ€“Sink Matching in Carbon Capture and Storage Systems. Industrial & Engineering Chemistry Research, 2012, 51, 10015-10020.	1.8	318
144	Mathematically Rigorous Algebraic and Graphical Techniques for Targeting Minimum Resource Requirement and Interplant Flow Rate for Total Site Involving Two Plants. Industrial & Engineering Chemistry Research, 2012, 51, 3401-3417.	1.8	13

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145	A Rigorous Targeting to Minimize Resource Requirement in Batch Processes. Industrial & Engineering Chemistry Research, 2012, 51, 8015-8024.	1.8	9
146	A NOVEL DESIGN PROCEDURE FOR SOLAR THERMAL SYSTEMS. Advances in Process Systems Engineering, 2012, , 561-576.	0.3	0
147	Energy optimization in heat integrated water allocation networks. Chemical Engineering Science, 2012, 69, 352-364.	1.9	43
148	Improved areaâ€"energy targeting for fired heater integrated heat exchanger networks. Chemical Engineering Research and Design, 2012, 90, 213-219.	2.7	13
149	Fired heater integration into total site and multiple fired heater targeting. Applied Thermal Engineering, 2012, 42, 111-118.	3.0	13
150	A Unified Approach for the Optimization of Energy and Water in Multipurpose Batch Plants. Computer Aided Chemical Engineering, 2012, , 1382-1386.	0.3	2
151	A Graphical Approach to Optimal Source-Sink Matching in Carbon Capture and Storage Systems with Reservoir Capacity and Injection Rate Constraints. Computer Aided Chemical Engineering, 2012, , 480-484.	0.3	5
152	Targeting Minimum Heat Transfer Fluid Flow for Multiple Heat Demands. Computer Aided Chemical Engineering, 2012, 31, 675-679.	0.3	1
153	Design of an Optimal Standalone Wind Power Generation System. , 2012, , 111-138.		0
154	Heat Integration in Process Water Networks. Industrial & Engineering Chemistry Research, 2011, 50, 3695-3704.	1.8	33
155	On the Existence of Non-Convexities in the Design Space of Isolated Wind-Battery Systems. Wind Engineering, 2011, 35, 223-245.	1.1	5
156	Design and optimization of isolated energy systems through pinch analysis. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 518-526.	0.8	85
157	Energy integration across multiple water allocation networks with negligible contaminant effects. Asia-Pacific Journal of Chemical Engineering, 2011, 6, 527-536.	0.8	4
158	A simple model for super critical fluid extraction of bio oils from biomass. Energy Conversion and Management, 2011, 52, 652-657.	4.4	17
159	Extraction of cardanol and phenol from bio-oils obtained through vacuum pyrolysis of biomass using supercritical fluid extraction. Energy, 2011, 36, 1535-1542.	4.5	77
160	Design of renewable energy systems incorporating uncertainties through pinch analysis. Computer Aided Chemical Engineering, 2011, 29, 1994-1998.	0.3	5
161	Physical design space for isolated wind-battery system incorporating resource uncertainty. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2011, 225, 421-442.	0.8	8
162	Energy targeting in heat integrated water networks with isothermal mixing. Computer Aided Chemical Engineering, 2011, 29, 1989-1993.	0.3	6

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163	Segregated targeting for multiple resource networks using decomposition algorithm. AIChE Journal, 2010, 56, 1235-1248.	1.8	29
164	Optimum sizing of wind-battery systems incorporating resource uncertainty. Applied Energy, 2010, 87, 2712-2727.	5.1	121
165	Targeting for cogeneration potential through total site integration. Applied Thermal Engineering, 2010, 30, 6-14.	3.0	125
166	Design of isolated renewable hybrid power systems. Solar Energy, 2010, 84, 1124-1136.	2.9	133
167	Energy conservation in water allocation networks with negligible contaminant effects. Chemical Engineering Science, 2010, 65, 4182-4193.	1.9	23
168	Optimum Design of Diesel Generator Integrated Photovoltaic-Battery System. Energy & Fuels, 2010, 24, 6565-6575.	2.5	12
169	Modified Problem Table Algorithm for Energy Targeting. Industrial & Engineering Chemistry Research, 2010, 49, 11557-11563.	1.8	52
170	Energy integration of fired heaters into overall processes. International Journal of Environment and Sustainable Development, 2009, 8, 36.	0.2	5
171	Optimization of solar water heating systems through water replenishment. Energy Conversion and Management, 2009, 50, 837-846.	4.4	46
172	Application of design space methodology for optimum sizing of windâ€“battery systems. Applied Energy, 2009, 86, 2690-2703.	5.1	65
173	Targeting minimum waste treatment flow rate. Chemical Engineering Journal, 2009, 152, 367-375.	6.6	22
174	Optimum sizing of photovoltaic battery systems incorporating uncertainty through design space approach. Solar Energy, 2009, 83, 1013-1025.	2.9	142
175	Process integration of organic Rankine cycle. Energy, 2009, 34, 1674-1686.	4.5	281
176	Evolution of Resource Allocation Networks. Industrial & Engineering Chemistry Research, 2009, 48, 7152-7167.	1.8	34
177	Optimum Design of Battery-Integrated Diesel Generator Systems Incorporating Demand Uncertainty. Industrial & Engineering Chemistry Research, 2009, 48, 4908-4916.	1.8	24
178	Design of solar thermal systems utilizing pressurized hot water storage for industrial applications. Solar Energy, 2008, 82, 686-699.	2.9	77
179	Optimum sizing of battery-integrated diesel generator for remote electrification through design-space approach. Energy, 2008, 33, 1155-1168.	4.5	115
180	Water Management in Process Industries Incorporating Regeneration and Recycle through a Single Treatment Unit. Industrial & Engineering Chemistry Research, 2008, 47, 1111-1119.	1.8	58

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181	Process water management with regeneration and recycle. Computer Aided Chemical Engineering, 2007, , 1343-1348.	0.3	0
182	Targeting for Multiple Resources. Industrial & Engineering Chemistry Research, 2007, 46, 3698-3708.	1.8	68
183	Targeting for Energy Integration of Multiple Fired Heaters. Industrial & Engineering Chemistry Research, 2007, 46, 5631-5644.	1.8	31
184	Determination of design space and optimization of solar water heating systems. Solar Energy, 2007, 81, 958-968.	2.9	115
185	Sizing curve for design of isolated power systems. Energy for Sustainable Development, 2007, 11, 21-28.	2.0	27
186	Thermal Integration of a Distillation Column Through Side-Exchangers. Chemical Engineering Research and Design, 2007, 85, 155-166.	2.7	29
187	A rigorous targeting algorithm for resource allocation networks. Chemical Engineering Science, 2007, 62, 6212-6221.	1.9	55
188	Process Water Management. Industrial & Engineering Chemistry Research, 2006, 45, 5287-5297.	1.8	102
189	Source composite curve for waste reduction. Chemical Engineering Journal, 2006, 125, 99-110.	6.6	174
190	Extraction of cashew (Anacardium occidentale) nut shell liquid using supercritical carbon dioxide. Bioresource Technology, 2006, 97, 847-853.	4.8	83
191	Economic appraisal of supercritical fluid extraction of refined cashew nut shell liquid. Journal of Chromatography A, 2006, 1124, 130-138.	1.8	27
192	Efficient feed preheat targeting for distillation by feed splitting. Computer Aided Chemical Engineering, 2005, , 751-756.	0.3	5
193	Energy-based targets for multiple-feed distillation columns. AICHE Journal, 2004, 50, 1837-1853.	1.8	23
194	Feed Preconditioning Targets for Distillation through Invariant Rectifyingâ"Stripping Curves. Industrial & Engineering Chemistry Research, 2003, 42, 6851-6861.	1.8	10
195	Effect of feed on optimal thermodynamic performance of a distillation column. Chemical Engineering Journal, 2002, 88, 175-186.	6.6	45
196	Thermoeconomic optimization of combined cycle power plants. Energy Conversion and Management, 2001, 42, 359-371.	4.4	33
197	Invariant rectifying-stripping curves for targeting minimum energy and feed location in distillation. Computers and Chemical Engineering, 1999, 23, 1109-1124.	2.0	34
198	Effect of combustion on the economic operation of endoreversible otto and Joule-Brayton engine. International Journal of Energy Research, 1998, 22, 249-256.	2.2	8

#	Article	IF	Citations
199	Temperatureâ€“enthalpy curve for energy targeting of distillation columns. Computers and Chemical Engineering, 1998, 22, 1733-1744.	2.0	36
200	CRC Handbook of Thermal Engineering Second Edition. , 0, , .		7
201	Multiobjective Pinch Analysis for Resource Conservation in Constrained Sourceâ€“Sink Problems. Industrial & Engineering Chemistry Research, 0, , .	1.8	2
202	Sustainability Trends, 2021 Best Paper, and Plans for 2022. Process Integration and Optimization for Sustainability, 0, , 1.	1.4	1
203	Economic Pinch Analysis for Estimating Service Life. Process Integration and Optimization for Sustainability, 0, , 1.	1.4	1