

Leandro Vitor Pavão

List of Publications by Year in descending order

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papers

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citing authors

#	ARTICLE	IF	CITATIONS
1	Heat Exchanger Network Synthesis without stream splits using parallelized and simplified simulated Annealing and Particle Swarm Optimization. <i>Chemical Engineering Science</i> , 2017, 158, 96-107.	3.8	88
2	Large-scale heat exchanger networks synthesis using simulated annealing and the novel rocket fireworks optimization. <i>AIChE Journal</i> , 2017, 63, 1582-1601.	3.6	68
3	Automated heat exchanger network synthesis by using hybrid natural algorithms and parallel processing. <i>Computers and Chemical Engineering</i> , 2016, 94, 370-386.	3.8	55
4	An Enhanced Stage-wise Superstructure for Heat Exchanger Networks Synthesis with New Options for Heaters and Coolers Placement. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 2560-2573.	3.7	48
5	Heat exchanger network synthesis using genetic algorithm and differential evolution. <i>Computers and Chemical Engineering</i> , 2018, 117, 82-96.	3.8	47
6	Heat exchanger network synthesis combining Simulated Annealing and Differential Evolution. <i>Energy</i> , 2019, 181, 654-664.	8.8	43
7	A new stage-wise superstructure for heat exchanger network synthesis considering substages, sub-splits and cross flows. <i>Applied Thermal Engineering</i> , 2018, 143, 719-735.	6.0	40
8	Process integration of a multiperiod sugarcane biorefinery. <i>Applied Energy</i> , 2018, 213, 520-539.	10.1	33
9	Efficient multiperiod heat exchanger network synthesis using a meta-heuristic approach. <i>Energy</i> , 2018, 142, 356-372.	8.8	29
10	Costs and environmental impacts multi-objective heat exchanger networks synthesis using a meta-heuristic approach. <i>Applied Energy</i> , 2017, 203, 304-320.	10.1	24
11	A new framework for work and heat exchange network synthesis and optimization. <i>Energy Conversion and Management</i> , 2019, 183, 617-632.	9.2	24
12	Heat exchanger networks retrofit with an extended superstructure model and a meta-heuristic solution approach. <i>Computers and Chemical Engineering</i> , 2019, 125, 380-399.	3.8	23
13	Financial risks management of heat exchanger networks under uncertain utility costs via multi-objective optimization. <i>Energy</i> , 2017, 139, 98-117.	8.8	15
14	Synthesis of multiperiod heat exchanger networks with timesharing mechanisms using meta-heuristics. <i>Applied Thermal Engineering</i> , 2018, 128, 637-652.	6.0	14
15	A pinch-based method for defining pressure manipulation routes in work and heat exchange networks. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 131, 109989.	16.4	14
16	A Novel Sequential Approach for the Design of Heat Exchanger Networks. <i>Frontiers in Chemical Engineering</i> , 2021, 3, .	2.7	11
17	Work and heat exchange network synthesis considering multiple electricity-related scenarios. <i>Energy</i> , 2019, 182, 932-953.	8.8	7
18	Financial Risk Management in Heat Exchanger Networks Considering Multiple Utility Sources with Uncertain Costs. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 9831-9848.	3.7	6

#	ARTICLE	IF	CITATIONS
19	Multiperiod work and heat integration. Energy Conversion and Management, 2021, 227, 113587.	9.2	6
20	An extended method for work and heat integration considering practical operating constraints. Energy Conversion and Management, 2020, 206, 112469.	9.2	5
21	Heat Exchanger Network Synthesis using a Genetic Algorithms-Particle Swarm Optimization Hybrid Method and Parallel Processing. Computer Aided Chemical Engineering, 2016, 38, 1809-1814.	0.5	3
22	A meta-heuristic approach for financial risks management in heat exchanger networks. Computer Aided Chemical Engineering, 2017, 40, 955-960.	0.5	2
23	A Multiperiod Approach for Flexible Work and Heat Integration. Computer Aided Chemical Engineering, 2020, , 877-882.	0.5	0
24	SYNTHESIS OF MULTIPERIOD HEAT EXCHANGER NETWORKS WITH A HYBRID META-HEURISTIC APPROACH: SIMULATED ANNEALING AND ROCKET FIREWORKS OPTIMIZATION. , 2017, , .		0
25	DYNAMIC SIMULATION OF HEAT EXCHANGER NETWORKS: CONTROLLABILITY AND RESILIENCY ANALYSIS. , 2017, , .		0
26	Multiperiod Heat Exchanger Network Synthesis With Pinch-Based Strategies and Metaheuristics. Frontiers in Sustainability, 2022, 3, .	2.6	0