

# Mauro AntÃ³nio Da Silva SÃ; Ravagnani

## List of Publications by Year in descending order

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16  
papers

418  
citations

1040056

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1058476

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g-index

16  
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docs citations

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times ranked

229  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiperiod Heat Exchanger Network Synthesis With Pinch-Based Strategies and Metaheuristics. <i>Frontiers in Sustainability</i> , 2022, 3, .	2.6	0
2	Parameters for cost estimation in shell and tube heat exchangers network synthesis: A systematic literature review on 30 years of research. <i>Applied Thermal Engineering</i> , 2022, 213, 118801.	6.0	2
3	Techno-economic Assessment of Syngas Production from Sugarcane Vinasse Compared to the Natural Gas Route: A Biorefinery Concept. <i>Waste and Biomass Valorization</i> , 2021, 12, 699-710.	3.4	5
4	Multi-objective optimization of the Brazilian industrial sugarcane scenario: a profitable and ecological approach. <i>Clean Technologies and Environmental Policy</i> , 2020, 22, 591-611.	4.1	8
5	Bi-objective optimization of a supply chain: identification of the key impact category and green management. <i>Brazilian Journal of Chemical Engineering</i> , 2020, 37, 157-171.	1.3	3
6	Heat exchanger network synthesis combining Simulated Annealing and Differential Evolution. <i>Energy</i> , 2019, 181, 654-664.	8.8	43
7	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
8	Optimization-based approach for maximizing profitability of bioethanol supply chain in Brazil. <i>Computers and Chemical Engineering</i> , 2018, 115, 121-132.	3.8	25
9	An Enhanced Stage-wise Superstructure for Heat Exchanger Networks Synthesis with New Options for Heaters and Coolers Placement. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 2560-2573.	3.7	48
10	Financial Risk Management in Heat Exchanger Networks Considering Multiple Utility Sources with Uncertain Costs. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 9831-9848.	3.7	6
11	Heat exchanger network synthesis using genetic algorithm and differential evolution. <i>Computers and Chemical Engineering</i> , 2018, 117, 82-96.	3.8	47
12	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
13	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
14	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
15	Optimal heat exchanger network synthesis using particle swarm optimization. <i>Optimization and Engineering</i> , 2010, 11, 459-470.	2.4	70
16	Economic and Environmental Feasibility of Photovoltaic Solar Energy in Industrial Processes. <i>Environmental Progress and Sustainable Energy</i> , 0, , .	2.3	0