# Leandro Vitor PavÃ£o

List of Publications by Year
in descending order

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|---|---|---|---|
| 26 papers | 606 citations | 623734 14 h-index | 677142 22 g-index |
| 27 all docs | 27 docs citations | 27 times ranked | 270 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | Multiperiod Heat Exchanger Network Synthesis With Pinch-Based Strategies and Metaheuristics. Frontiers in Sustainability, 2022, 3, . | 2.6 | 0 |
| 2 | Multiperiod work and heat integration. Energy Conversion and Management, 2021, 227, 113587. | 9.2 | 6 |
| 3 | A Novel Sequential Approach for the Design of Heat Exchanger Networks. Frontiers in Chemical Engineering, 2021, 3, . | 2.7 | 11 |
| 4 | A Multiperiod Approach for Flexible Work and Heat Integration. Computer Aided Chemical Engineering, 2020, , 877-882. | 0.5 | 0 |
| 5 | A pinch-based method for defining pressure manipulation routes in work and heat exchange networks. Renewable and Sustainable Energy Reviews, 2020, 131, 109989. | 16.4 | 14 |
| 6 | An extended method for work and heat integration considering practical operating constraints. Energy Conversion and Management, 2020, 206, 112469. | 9.2 | 5 |
| 7 | A new framework for work and heat exchange network synthesis and optimization. Energy Conversion and Management, 2019, 183, 617-632. | 9.2 | 24 |
| 8 | Heat exchanger network synthesis combining Simulated Annealing and Differential Evolution. Energy, 2019, 181, 654-664. | 8.8 | 43 |
| 9 | Work and heat exchange network synthesis considering multiple electricity-related scenarios. Energy, 2019, 182, 932-953. | 8.8 | 7 |
| 10 | Heat exchanger networks retrofit with an extended superstructure model and a meta-heuristic solution approach. Computers and Chemical Engineering, 2019, 125, 380-399. | 3.8 | 23 |
| 11 | An Enhanced Stage-wise Superstructure for Heat Exchanger Networks Synthesis with New Options for Heaters and Coolers Placement. Industrial &amp; Engineering Chemistry Research, 2018, 57, 2560-2573. | 3.7 | 48 |
| 12 | Efficient multiperiod heat exchanger network synthesis using a meta-heuristic approach. Energy, 2018, 142, 356-372. | 8.8 | 29 |
| 13 | Synthesis of multiperiod heat exchanger networks with timesharing mechanisms using meta-heuristics. Applied Thermal Engineering, 2018, 128, 637-652. | 6.0 | 14 |
| 14 | Process integration of a multiperiod sugarcane biorefinery. Applied Energy, 2018, 213, 520-539. | 10.1 | 33 |
| 15 | Financial Risk Management in Heat Exchanger Networks Considering Multiple Utility Sources with Uncertain Costs. Industrial &amp; Engineering Chemistry Research, 2018, 57, 9831-9848. | 3.7 | 6 |
| 16 | Heat exchanger network synthesis using genetic algorithm and differential evolution. Computers and Chemical Engineering, 2018, 117, 82-96. | 3.8 | 47 |
| 17 | A new stage-wise superstructure for heat exchanger network synthesis considering substages, sub-splits and cross flows. Applied Thermal Engineering, 2018, 143, 719-735. | 6.0 | 40 |
| 18 | Costs and environmental impacts multi-objective heat exchanger networks synthesis using a meta-heuristic approach. Applied Energy, 2017, 203, 304-320. | 10.1 | 24 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 19 | Financial risks management of heat exchanger networks under uncertain utility costs via multi-objective optimization. Energy, 2017, 139, 98-117. | 8.8 | 15 |
| 20 | Large-scale heat exchanger networks synthesis using simulated annealing and the novel rocket fireworks optimization. AICHE Journal, 2017, 63, 1582-1601. | 3.6 | 68 |
| 21 | Heat Exchanger Network Synthesis without stream splits using parallelized and simplified simulated Annealing and Particle Swarm Optimization. Chemical Engineering Science, 2017, 158, 96-107. | 3.8 | 88 |
| 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 | SYNTHESIS OF MULTIPERIOD HEAT EXCHANGER NETWORKS WITH A HYBRID META-HEURISTIC APPROACH: SIMULATED ANNEALING AND ROCKET FIREWORKS OPTIMIZATION. , 2017, , . | | 0 |
| 24 | DYNAMIC SIMULATION OF HEAT EXCHANGER NETWORKS: CONTROLLABILITY AND RESILIENCY ANALYSIS. , 2017, , . | | 0 |
| 25 | Automated heat exchanger network synthesis by using hybrid natural algorithms and parallel processing. Computers and Chemical Engineering, 2016, 94, 370-386. | 3.8 | 55 |
| 26 | 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 |