

# Nicolas J Scenna

## List of Publications by Year in descending order

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17  
papers

475  
citations

840776

11  
h-index

940533

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docs citations

17  
times ranked

496  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global optimal design of reverse osmosis networks for seawater desalination: modeling and algorithm. <i>Desalination</i> , 2005, 184, 259-271.	8.2	122
2	Optimization of multi-stage membrane systems for CO <sub>2</sub> capture from flue gas. <i>International Journal of Greenhouse Gas Control</i> , 2016, 53, 371-390.	4.6	76
3	Optimization mathematical model for the detailed design of air cooled heat exchangers. <i>Energy</i> , 2014, 64, 734-746.	8.8	48
4	Optimal synthesis and design of Heat Recovery Steam Generation (HRSG) via mathematical programming. <i>Energy</i> , 2011, 36, 475-485.	8.8	38
5	A discrete and continuous mathematical model for the optimal synthesis and design of dual pressure heat recovery steam generators coupled to two steam turbines. <i>Energy</i> , 2016, 103, 807-823.	8.8	35
6	Optimal design and sensitivity analysis of post-combustion CO <sub>2</sub> capture process by chemical absorption with amines. <i>Journal of Cleaner Production</i> , 2016, 115, 315-331.	9.3	30
7	Membrane-Based Processes: Optimization of Hydrogen Separation by Minimization of Power, Membrane Area, and Cost. <i>Processes</i> , 2018, 6, 221.	2.8	22
8	Improvements of a hollow fiber reverse osmosis desalination model: Analysis of numerical results. <i>Chemical Engineering Research and Design</i> , 2010, 88, 789-802.	5.6	20
9	Novel Configuration for a Multistage Flash-Mixer Desalination System. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 4828-4839.	3.7	19
10	Cost-based comparison of multi-stage membrane configurations for carbon capture from flue gas of power plants. <i>International Journal of Greenhouse Gas Control</i> , 2019, 86, 177-190.	4.6	19
11	Optimal Design and Operating Conditions of an Integrated Plant Using a Natural Gas Combined Cycle and Postcombustion CO <sub>2</sub> Capture. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 17026-17042.	3.7	11
12	Development of extrinsic functions for optimal synthesis and design—Application to distillation-based separation processes. <i>Computers and Chemical Engineering</i> , 2019, 125, 532-544.	3.8	10
13	Superstructure of Alternative Configurations of the Multistage Flash Desalination Process. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 7190-7203.	3.7	9
14	Optimal Design of a Two-Stage Membrane System for Hydrogen Separation in Refining Processes. <i>Processes</i> , 2018, 6, 208.	2.8	6
15	Process optimization and revamping of combined-cycle heat and power plants integrated with thermal desalination processes. <i>Energy</i> , 2021, 233, 121131.	8.8	6
16	Global optimal synthesis of integrated hybrid desalination plants. <i>Computer Aided Chemical Engineering</i> , 2009, , 573-578.	0.5	4
17	Optimal synthesis and design of the number of cycles in the leaching process for surimi production. <i>Journal of Food Science and Technology</i> , 2016, 53, 4325-4335.	2.8	0