Vicente Rico-Ramirez

List of Publications by Year
in descending order

60 papers	1,072 citations	394421 19 h-index	434195 31 g-index
60 all docs	60 docs citations	60 times ranked	979 citing authors

#	Article	IF	Citations
1	Control of falling-film evaporators with modeling of fouling. Food and Bioproducts Processing, 2022, 132, 68-82.	3.6	3
2	An MINLP approach to the 3D process layout problem. Chemical Engineering Research and Design, 2021, 165, 137-149.	5.6	4
3	Fisher information calculation in a complex ecological model: An optimal control-based approach. Ecological Modelling, 2020, 416, 108845.	2.5	4
4	Modeling, simulation and optimization of combined fractional-ordinary dynamic systems. Computers and Chemical Engineering, 2020, 133, 106651.	3.8	1
5	Water impact of an optimal natural gas production and distribution system: An MILP model and the case-study of Mexico. Chemical Engineering Research and Design, 2020, 153, 887-906.	5.6	4
6	Exergy analysis of a reactive extraction process. Chemical Engineering Research and Design, 2020, 162, 1-11.	5.6	2
7	Selection of food waste with low moisture and high protein content from Mexican restaurants as a supplement to swine feed. Journal of Cleaner Production, 2020, 256, 120137.	9.3	21
8	Effect of feedback loops on the sustainability and resilience of human-ecosystems. Ecological Modelling, 2020, 426, 109018.	2.5	11
9	A New Approach to Solving Stochastic Optimal Control Problems. Mathematics, 2019, 7, 1207.	2.2	7
10	Analysis of Carbon Policies in the Optimal Integration of Power Plants Involving Chemical Looping Combustion with Algal Cultivation Systems. ACS Sustainable Chemistry and Engineering, 2018, 6, 5248-5264.	6.7	7
11	An integrated stochastic economic-ecological-social model with stratified-population. Ecological Modelling, 2018, 368, 15-26.	2.5	21
12	Optimal municipal solid waste energy recovery and management: A mathematical programming approach. Computers and Chemical Engineering, 2018, 119, 394-405.	3.8	37
13	Mixed Integer Nonlinear Programming Model for Sustainable Water Management in Macroscopic Systems: Integrating Optimal Resource Management to the Synthesis of Distributed Treatment Systems. ACS Sustainable Chemistry and Engineering, 2017, 5, 2129-2145.	6.7	13
14	Optimal water management in macroscopic systems under economic penalty scenarios. AICHE Journal, 2017, 63, 3419-3441.	3.6	1
15	Sustainability Assessment of an Integrated Economic-Ecologic-Social Model under Time-Dependent Uncertainties. Computer Aided Chemical Engineering, 2017, 40, 577-582.	0.5	4
16	A Mixed Integer Programming Model for Sustainable Water Management in Macroscopic Systems. Computer Aided Chemical Engineering, 2016, 38, 1839-1844.	0.5	0
17	Approximate design method for reactive liquid extractors based on thermodynamic equilibrium correlations. Chemical Engineering Research and Design, 2016, 109, 443-454.	5.6	6
18	A comparative simulation study of power generation plants involving chemical looping combustion systems. Computers and Chemical Engineering, 2016, 84, 434-445.	3.8	21

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19	Gas chromatography/mass spectrometry for the determination of nitrosamines in red wine. Food Chemistry, 2016, 196, 1131-1136.	8.2	19
20	Analysis of alternative non-catalytic processes for the production of biodiesel fuel. Clean Technologies and Environmental Policy, 2015, 17, 2041-2054.	4.1	13
21	A new correlation for the prediction of refractive index and liquid densities of 1-alcohols. Fluid Phase Equilibria, 2015, 387, 117-120.	2.5	12
22	Some operational aspects and applications of dividing wall columns: energy requirements and carbon dioxide emissions. Clean Technologies and Environmental Policy, 2015, 17, 657-665.	4.1	6
23	An MFA optimization approach for pollution trading considering the sustainability of the surrounded watersheds. Computers and Chemical Engineering, 2014, 63, 140-151.	3.8	23
24	Multiple Steady States in Thermally Coupled Distillation Sequences: Revisiting the Design, Energy Optimization, and Control. Industrial & Engineering Chemistry Research, 2014, 53, 17515-17521.	3.7	9
25	A fractional calculus approach to the dynamic optimization of biological reactive systems. Part I: Fractional models for biological reactions. Chemical Engineering Science, 2014, 117, 217-228.	3.8	95
26	A fractional calculus approach to the dynamic optimization of biological reactive systems. Part II: Numerical solution of fractional optimal control problems. Chemical Engineering Science, 2014, 117, 239-247.	3.8	25
27	Simulation study on biodiesel production by reactive distillation with methanol at high pressure and temperature: Impact on costs and pollutant emissions. Computers and Chemical Engineering, 2013, 52, 204-215.	3.8	38
28	A Fractional Calculus Application to Biological Reactive Systems. Computer Aided Chemical Engineering, 2012, 30, 1302-1306.	0.5	3
29	A Mathematical Programming Approach to Pollution Trading. Industrial & Engineering Chemistry Research, 2012, 51, 5922-5931.	3.7	9
30	Simplified Methodology for the Design and Optimization of Thermally Coupled Reactive Distillation Systems. Industrial & Engineering Chemistry Research, 2012, 51, 11717-11730.	3.7	16
31	Analysis of the Production of Methyl Esters by the Two-Step Supercritical Method using Reactive Distillation. Computer Aided Chemical Engineering, 2012, 30, 707-711.	0.5	0
32	Esterification of fatty acids in a thermally coupled reactive distillation column by the two-step supercritical methanol method. Chemical Engineering Research and Design, 2011, 89, 480-490.	5.6	38
33	A Mixed-Integer Programming Model for Pollution Trading. Computer Aided Chemical Engineering, 2011, 29, 1256-1260.	0.5	2
34	Optimum design of Petlyuk and divided-wall distillation systems using a shortcut model. Chemical Engineering Research and Design, 2010, 88, 1405-1418.	5.6	49
35	Experimental study on pressure drops in a dividing wall distillation column. Chemical Engineering and Processing: Process Intensification, 2010, 49, 177-182.	3.6	10
36	Feasibility study of a thermally coupled reactive distillation process for biodiesel production. Chemical Engineering and Processing: Process Intensification, 2010, 49, 262-269.	3.6	49

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37	Fisher Information on the Performance of Dynamic Systems. Industrial & Engineering Chemistry Research, 2010, 49, 1812-1821.	3.7	13
38	Strategic Capacity Allocation under Uncertainty by Using a Two-Stage Stochastic Decomposition Algorithm with Incumbent Solutions. Industrial & Engineering Chemistry Research, 2010, 49, 2812-2821.	3.7	4
39	Primary kinetic isotope effect in the nitrosation of 1,3- dialkylureas. Reaction Kinetics and Catalysis Letters, 2009, 96, 5-12.	0.6	1
40	Reactive dividing wall distillation columns: Simulation and implementation in a pilot plant. Chemical Engineering and Processing: Process Intensification, 2009, 48, 250-258.	3.6	81
41	Steric impediment of alkyl groups in the nitrosation of alkylureas. Reaction Kinetics and Catalysis Letters, 2008, 94, 337-344.	0.6	0
42	Supplementary Densities and Viscosities of Aqueous Solutions of Diethylene Glycol from (283.15 to) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.9	36
43	Implementation of a reactive dividing wall distillation column in a pilot plant. Computer Aided Chemical Engineering, 2008, 25, 229-234.	0.5	2
44	Fisher information: A generalized sustainability index?. Computer Aided Chemical Engineering, 2008, 25, 1155-1160.	0.5	3
45	Optimal location of booster disinfection stations in a water distribution system: A two-stage stochastic approach. Computer Aided Chemical Engineering, 2007, 24, 231-236.	0.5	2
46	Two-Stage Stochastic Approach to the Optimal Location of Booster Disinfection Stations. Industrial & Engineering Chemistry Research, 2007, 46, 6284-6292.	3.7	12
47	Water networks security: A two-stage mixed-integer stochastic program for sensor placement under uncertainty. Computers and Chemical Engineering, 2007, 31, 565-573.	3.8	41
48	Design and Optimization of Thermally Coupled Distillation Schemes for the Separation of Multicomponent Mixtures. Industrial & Engineering Chemistry Research, 2006, 45, 724-732.	3.7	40
49	Stochastic optimal control in batch reactive systems: Developments on engineering applications of real option theory. Computer Aided Chemical Engineering, 2006, 21, 1419-1424.	0.5	0
50	A Short Note on Control Structures for Thermally Coupled Distillation Sequences for Four-Component Mixtures. Industrial & Engineering Chemistry Research, 2005, 44, 5857-5863.	3.7	14
51	Improving convergence of the stochastic decomposition algorithm by using an efficient sampling technique. Computers and Chemical Engineering, 2004, 28, 767-773.	3.8	9
52	Stochastic maximum principle for optimal control under uncertainty. Computers and Chemical Engineering, 2004, 28, 2845-2849.	3.8	28
53	Simplified Design of Batch Reactive Distillation Columns. Industrial & Engineering Chemistry Research, 2004, 43, 4000-4011.	3.7	9
54	Time Dependent Uncertainties and Optimal Control. Computer Aided Chemical Engineering, 2004, 18, 763-768.	0.5	0

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55	MINLP synthesis of heat exchanger networks considering pressure drop effects. Computers and Chemical Engineering, 2003, 27, 1143-1152.	3.8	60
56	Real option theory from finance to batch distillation. Computers and Chemical Engineering, 2003, 27, 1867-1882.	3.8	21
57	Energy-Efficient Designs of Thermally Coupled Distillation Sequences for Four-Component Mixtures. Industrial & Engineering Chemistry Research, 2003, 42, 5157-5164.	3.7	43
58	Thermodynamic Analysis of Thermally Coupled Distillation Sequences. Industrial & Engineering Chemistry Research, 2003, 42, 5940-5945.	3.7	39
59	Using the HSS technique for improving the efficiency of the stochastic decomposition algorithm. Computer Aided Chemical Engineering, 2003, 14, 851-856.	0.5	0
60	Mixed-integer multiperiod model for the planning of oilfield production. Computers and Chemical Engineering, 2002, 26, 703-714.	3.8	31