Argimiro Resende Secchi

List of Publications by Citations

 $\textbf{Source:} \ https://exaly.com/author-pdf/1099508/argimiro-resende-secchi-publications-by-citations.pdf$

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 191
 1,443
 19
 29

 papers
 citations
 h-index
 g-index

 204
 1,736
 2.9
 4.94

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
191	EMSO: A new environment for modelling, simulation and optimisation. <i>Computer Aided Chemical Engineering</i> , 2003 , 14, 947-952	0.6	88
190	Viscoelastic flow analysis using the software OpenFOAM and differential constitutive equations. Journal of Non-Newtonian Fluid Mechanics, 2010, 165, 1625-1636	2.7	85
189	Assessing the production of first and second generation bioethanol from sugarcane through the integration of global optimization and process detailed modeling. <i>Computers and Chemical Engineering</i> , 2012 , 43, 1-9	4	69
188	Utilization of protein-hydrolyzed cheese whey for production of beta-galactosidase by Kluyveromyces marxianus. <i>Journal of Industrial Microbiology and Biotechnology</i> , 1999 , 23, 91-96	4.2	59
187	Modeling and simulation of propylene polymerization in nonideal loop reactors. <i>AICHE Journal</i> , 2003 , 49, 2642-2654	3.6	40
186	Cost assessment and retro-techno-economic analysis of desalination technologies in onshore produced water treatment. <i>Desalination</i> , 2018 , 430, 107-119	10.3	33
185	Continuous pretreatment of sugarcane biomass using a twin-screw extruder. <i>Industrial Crops and Products</i> , 2017 , 97, 509-517	5.9	32
184	A growth kinetic model of Kluyveromyces marxianus cultures on cheese whey as substrate. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2004 , 31, 35-40	4.2	31
183	Viscoelastic fluid analysis in internal and in free surface flows using the software OpenFOAM. <i>Computers and Chemical Engineering</i> , 2010 , 34, 1984-1993	4	30
182	Influence of oxygen transfer rate on the accumulation of poly(3-hydroxybutyrate) by Bacillus megaterium. <i>Process Biochemistry</i> , 2013 , 48, 420-425	4.8	29
181	Constrained optimal batch polymerization reactor control. <i>Polymer Engineering and Science</i> , 1990 , 30, 1209-1219	2.3	25
180	Modeling, simulation and kinetic parameter estimation for diesel hydrotreating. Fuel, 2017, 209, 184-19	9 3 _{7.1}	24
179	Determination of the external mass transfer coefficient and influence of mixing intensity in moving bed biofilm reactors for wastewater treatment. <i>Water Research</i> , 2015 , 80, 90-8	12.5	23
178	Investigation of silica particle structure containing metallocene immobilized by a solgel method. Journal of Non-Crystalline Solids, 2008 , 354, 3973-3979	3.9	22
177	Kinetic modeling for enzymatic hydrolysis of pretreated sugarcane straw. <i>Biochemical Engineering Journal</i> , 2015 , 104, 10-19	4.2	21
176	Direct production of ultra-high molecular weight polyethylene with oriented crystalline microstructures. <i>Journal of Molecular Catalysis A</i> , 2013 , 366, 74-83		21
175	Optimization of C:N ratio and minimal initial carbon source for poly(3-hydroxybutyrate) production by Bacillus megaterium. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 1756-1761	3.5	21

(2008-2010)

174	Teaching chemical reaction engineering using EMSO simulator. <i>Computer Applications in Engineering Education</i> , 2010 , 18, 607-618	1.6	21
173	A dynamic model for a FCC UOP stacked converter unit. <i>Computers and Chemical Engineering</i> , 2001 , 25, 851-858	4	21
172	Collection of benchmark test problems for data reconciliation and gross error detection and identification. <i>Computers and Chemical Engineering</i> , 2018 , 111, 134-148	4	19
171	A robust parallel algorithm of the particle swarm optimization method for large dimensional engineering problems. <i>Applied Mathematical Modelling</i> , 2015 , 39, 4223-4241	4.5	18
170	The effect of calcination atmosphere on structural properties of Y-doped SrTiO3 perovskite anode for SOFC prepared by solid-state reaction. <i>Ceramics International</i> , 2019 , 45, 9761-9770	5.1	17
169	Immobilization of Zirconocene into Silica Prepared by Non-Hydrolytic Sol-Gel Method. <i>Macromolecular Symposia</i> , 2006 , 245-246, 77-86	0.8	17
168	A review on robust M-estimators for regression analysis. <i>Computers and Chemical Engineering</i> , 2021 , 147, 107254	4	17
167	Nonlinear model predictive control applied to the separation of praziquantel in simulated moving bed chromatography. <i>Journal of Chromatography A</i> , 2016 , 1470, 42-49	4.5	17
166	Retro-Techno-Economic Analysis: Using (Bio)Process Systems Engineering Tools To Attain Process Target Values. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 9865-9872	3.9	16
165	Immobilization of metallocene within silica li tania by a non-hydrolytic sol g el method. <i>Applied Catalysis A: General</i> , 2009 , 354, 88-101	5.1	16
164	Viscoelastic Flow Simulation: Development of a Methodology of Analysis Using the Software OpenFOAM and Differential Constitutive Equations. <i>Computer Aided Chemical Engineering</i> , 2009 , 915-92	2 6 .6	14
163	Simulation and optimization of an industrial PSA unit. <i>Brazilian Journal of Chemical Engineering</i> , 2000 , 17, 695-704	1.7	14
162	Amorphous paracrystalline structures from native crystalline cellulose: A molecular dynamics protocol. <i>Fluid Phase Equilibria</i> , 2019 , 491, 56-76	2.5	13
161	Enhanced surrogate assisted framework for constrained global optimization of expensive black-box functions. <i>Computers and Chemical Engineering</i> , 2018 , 118, 91-102	4	13
160	Modelling and Extremum Seeking Control of Gas Lifted Oil Wells. IFAC-PapersOnLine, 2015, 48, 21-26	0.7	13
159	Heterogeneous Catalysts for Olefin Polymerization: Mathematical Model for Catalyst Particle Fragmentation. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 11997-12010	3.9	12
158	Dynamic Simulation of Rosemary Essential Oil Extraction in an Industrial Steam Distillation Unit. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 3955-3959	3.9	12
157	Dynamic Behavior and Control in an Industrial Fluidized-Bed Polymerization Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 6058-6069	3.9	12

156	Interfacial aggregation of Janus rods in binary polymer blends and their effect on phase separation. Journal of Chemical Physics, 2019 , 151, 114907	3.9	11
155	Structural analysis for static and dynamic models. <i>Mathematical and Computer Modelling</i> , 2012 , 55, 105	1-1067	11
154	Modeling P(3HB) production by Bacillus megaterium. <i>Journal of Chemical Technology and Biotechnology</i> , 2012 , 87, 325-333	3.5	11
153	Novel method for looped pipeline network resolution. <i>Computers and Chemical Engineering</i> , 2017 , 96, 169-182	4	11
152	Immobilization of zirconocene within silical ungsten by entrapment: Tuning electronic effects of the support on the supported complex. <i>Applied Catalysis A: General</i> , 2009 , 370, 114-122	5.1	11
151	Simulation of styrene polymerization reactors: kinetic and thermodynamic modeling. <i>Brazilian Journal of Chemical Engineering</i> , 2008 , 25, 337-349	1.7	11
150	Implementation of a block-oriented model library for undergraduate process control courses in EMSO simulator. <i>Education for Chemical Engineers</i> , 2017 , 18, 45-57	2.4	10
149	Modeling of Biomass Gasification Applied to a Combined Gasifier-Combustor Unit: Equilibrium and Kinetic Approaches. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 657-662	0.6	10
148	The waveform relaxation method in the concurrent dynamic process simulation. <i>Computers and Chemical Engineering</i> , 1993 , 17, 683-703	4	10
147	Carbon-based electrode loaded with Y-doped SrTiO3 perovskite as support for enzyme immobilization in biosensors. <i>Ceramics International</i> , 2020 , 46, 3592-3599	5.1	10
146	Integrating pinch analysis and process simulation within equation-oriented simulators. <i>Computers and Chemical Engineering</i> , 2019 , 130, 106555	4	9
145	A simple approach to improve the robustness of equation-oriented simulators: Multilinear look-up table interpolators. <i>Computers and Chemical Engineering</i> , 2016 , 86, 1-4	4	9
144	Dynamic optimization of a FCC converter unit: numerical analysis. <i>Brazilian Journal of Chemical Engineering</i> , 2011 , 28, 117-136	1.7	9
143	Kinetics of thermal inactivation of transglutaminase from a newly isolated Bacillus circulans BL32. Journal of Chemical Technology and Biotechnology, 2009 , 84, 1567-1575	3.5	9
142	A new cubic equation of state for prediction of VLE of polymer solutions. <i>Fluid Phase Equilibria</i> , 2010 , 295, 38-45	2.5	9
141	Dynamic simulation and experimental evaluation of EPDM terpolymerization with vanadium-based catalyst. <i>Journal of Applied Polymer Science</i> , 1998 , 70, 1173-1189	2.9	9
140	Modifications, simplifications, and efficiency tests for the CAPE-OPEN numerical open interfaces. <i>Computers and Chemical Engineering</i> , 2004 , 28, 1611-1621	4	9
139	Separation of praziquantel enantiomers using simulated moving bed chromatographic unit with performance designed for semipreparative applications. <i>Chirality</i> , 2019 , 31, 583-591	2.1	8

(2019-2015)

138	Effects of electrostatic correlations on ion dynamics in alternating current voltages. <i>Electrochimica Acta</i> , 2015 , 152, 84-92	6.7	8	
137	Employing process simulation for hazardous process deviation identification and analysis. <i>Safety Science</i> , 2018 , 101, 209-219	5.8	8	
136	Model Predictive Control with quality requirements on petroleum production platforms. <i>Journal of Petroleum Science and Engineering</i> , 2016 , 137, 10-21	4.4	8	
135	Accelerating the parameters identifiability procedure: Set by set selection. <i>Computers and Chemical Engineering</i> , 2013 , 55, 181-197	4	8	
134	Heat integration of an Olefins Plant: Pinch Analysis and mathematical optimization working together. <i>Brazilian Journal of Chemical Engineering</i> , 2011 , 28, 101-116	1.7	8	
133	Simulation of Free Surface Viscoelastic Fluid Flow Using the viscoelasticInterFoam Solver. <i>Computer Aided Chemical Engineering</i> , 2010 , 31-36	0.6	8	
132	Simulation of an ultrafiltration process of bovine serum albumin in hollow-fiber membranes. Journal of Membrane Science, 1999 , 160, 255-265	9.6	8	
131	A Kriging-based approach for conjugating specific dynamic models into whole plant stationary simulations. <i>Computers and Chemical Engineering</i> , 2018 , 119, 190-194	4	8	
130	Model Predictive Control with Adaptive Strategy Applied to an Electric Submersible Pump in a Subsea Environment. <i>IFAC-PapersOnLine</i> , 2019 , 52, 784-789	0.7	7	
129	Observability analysis and model formulation for nonlinear state estimation. <i>Applied Mathematical Modelling</i> , 2014 , 38, 5407-5420	4.5	7	
128	Multivariable control strategy based on bifurcation analysis of an industrial gas-phase polymerization reactor. <i>Journal of Process Control</i> , 2009 , 19, 530-538	3.9	7	
127	Mass transfer in olefin polymerization: estimative of macro- and microscale diffusion coefficients through the swollen polymer. <i>Chemical Engineering Science</i> , 2008 , 63, 3727-3739	4.4	7	
126	Dynamic simulation and experimental evaluation of EPDM synthesis with ET(IND)2ZRCL2/MAO catalyst system. <i>Journal of Applied Polymer Science</i> , 2000 , 76, 425-438	2.9	7	
125	Process Modeling and Simulation of an Industrial-Scale Plant for Green Ethylene Production. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6401-6416	3.9	6	
124	Steric effects on ion dynamics near charged electrodes. Fluid Phase Equilibria, 2014, 362, 177-186	2.5	6	
123	Dispersant effects on YSZ electrolyte characteristics for solid oxide fuel cells. <i>Ceramics International</i> , 2015 , 41, 6141-6148	5.1	6	
122	Direct initialisation and solution of high-index DAE systems. <i>Computer Aided Chemical Engineering</i> , 2005 , 20, 157-162	0.6	6	
121	Machine learning models to support reservoir production optimization. <i>IFAC-PapersOnLine</i> , 2019 , 52, 498-501	0.7	5	

120	Optimization of chemical engineering problems with EMSO software. <i>Computer Applications in Engineering Education</i> , 2018 , 26, 141-161	1.6	5
119	Equation of state based on the hole-lattice theory and surface-charge density (COSMO): Part A Pure compounds. <i>Fluid Phase Equilibria</i> , 2016 , 409, 472-481	2.5	5
118	Two-Phase Flow in Pipes: Numerical Improvements and Qualitative Analysis for a Refining Process. <i>Oil and Gas Science and Technology</i> , 2015 , 70, 497-510	1.9	5
117	Simultaneous parameters identifiability and estimation of an E. coli metabolic network model. BioMed Research International, 2015 , 2015, 454765	3	5
116	State estimators for better bioprocesses operation. Computer Aided Chemical Engineering, 2012, 1267-	127.6	5
115	High-order finite volume method for solving viscoelastic fluid lows. <i>Brazilian Journal of Chemical Engineering</i> , 2008 , 25, 153-166	1.7	5
114	MODELING AND SIMULATION OF THE PROCESS OF DEHYDRATION OF BIOETHANOL TO ETHYLENE. <i>Brazilian Journal of Chemical Engineering</i> , 2016 , 33, 479-490	1.7	5
113	Dynamic Interfacial Trapping of Janus Nanorod Aggregates. <i>Langmuir</i> , 2020 , 36, 4184-4193	4	5
112	Multi-objective optimization of a 1G-2G biorefinery: A tool towards economic and environmental viability. <i>Journal of Cleaner Production</i> , 2021 , 284, 125431	10.3	5
111	Optimal operation of batch enantiomer crystallization: From ternary diagrams to predictive control. <i>AICHE Journal</i> , 2018 , 64, 1618-1637	3.6	5
110	Slip and momentum transfer mechanisms mediated by Janus rods at polymer interfaces. <i>Soft Matter</i> , 2020 , 16, 6662-6672	3.6	4
109	An optimal control-based safety system for cost efficient risk management of chemical processes. <i>Computers and Chemical Engineering</i> , 2016 , 91, 471-484	4	4
108	Development of a gas composition soft sensor for distillation columns: A simplified model based and robust approach. <i>Computer Aided Chemical Engineering</i> , 2018 , 661-666	0.6	4
107	One-step optimization strategy in the simulated moving bed process with asynchronous movement of ports: A VariCol case study. <i>Journal of Chromatography A</i> , 2020 , 1634, 461672	4.5	4
106	An adaptive sequential wavelet-based algorithm developed for dynamic optimization problems. <i>Computers and Chemical Engineering</i> , 2019 , 121, 465-482	4	4
105	Insights into media supplementation in solid-state fermentation of soybean hulls by Yarrowia lipolytica: Impact on lipase production in tray and insulated packed-bed bioreactors. <i>Biochemical Engineering Journal</i> , 2021 , 166, 107866	4.2	4
104	Short-term oil production global optimization with operational constraints: A comparative study of nonlinear and piecewise linear formulations. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 198, 108141	4.4	4
103	Model predictive control with dead-time compensation applied to a gas compression system. Journal of Petroleum Science and Engineering, 2021 , 203, 108580	4.4	4

102	CO2 Subsea Separation: Concept & Control Strategies. IFAC-PapersOnLine, 2019, 52, 790-795	0.7	3
101	Simultaneous absorption of UV-vis and circular dichroism to measure enantiomeric concentrations of praziquantel under nonlinear conditions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 241, 118645	4.4	3
100	Implementation of Galerkin and moments methods by Gaussian quadrature in advection diffusion problems with chemical reactions. <i>Computers and Chemical Engineering</i> , 2014 , 61, 156-174	4	3
99	Reduced Rigorous Models for Efficient Dynamic Simulation and Optimization of Distillation Columns. <i>Computer Aided Chemical Engineering</i> , 2012 , 30, 1262-1266	0.6	3
98	Numerical Pitfalls by State Covariance Computation. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 1215-1220	0.6	3
97	Integrated tool for simulation and optimization of a first and second generation ethanol-from-sugarcane production plant. <i>Computer Aided Chemical Engineering</i> , 2012 , 81-85	0.6	3
96	Overall efficiency evaluation of commercial distillation columns with valve and dualflow trays. <i>AICHE Journal</i> , 2010 , 56, NA-NA	3.6	3
95	DYNAMIC SIMULATION OF REACTIVE DISTILLATION PROCESSES TO PREDICT START-UP BEHAVIOR. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 285-2	90	3
94	Comparison between Phenomenological and Empirical Models for Gas-Phase Polymerization Process Control. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 2651-2660	3.9	3
93	STATE ESTIMATION OF AN EXPERIMENTAL BIOREACTOR USING THE EXTENDED KALMAN FILTERING TECHNOLOGY. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 379-382		3
92	A METHODOLOGY TO OBTAIN ANALYTICAL MODELS THAT REDUCE THE COMPUTATIONAL COMPLEXITY FACED IN REAL TIME IMPLEMENTATION OF NMPC CONTROLLERS. <i>Brazilian Journal of Chemical Engineering</i> , 2019 , 36, 1255-1278	1.7	3
91	Application of the GIMP software in the analysis of birefringence images obtained in a multipass rheometer. <i>Rheologica Acta</i> , 2018 , 57, 113-126	2.3	3
90	Steady-state real-time optimization using transient measurements in the absence of a dynamic mechanistic model: A framework of HRTO integrated with Adaptive Self-Optimizing IHMPC. <i>Journal of Process Control</i> , 2021 , 106, 1-19	3.9	3
89	Tuning of Model Predictive Controllers Based on Hybrid Optimization. <i>Processes</i> , 2022 , 10, 351	2.9	3
88	Differential-Algebraic numerical approach to the one-dimensional Drift-Flux Model applied to a multicomponent hydrocarbon two-phase flow. <i>Computers and Chemical Engineering</i> , 2017 , 101, 125-137	, 4	2
87	Wax appearance and prevention in two-phase flow using the multi-solid and drift-flux model. Journal of Petroleum Science and Engineering, 2019, 177, 374-383	4.4	2
86	Modelling of Hg0 Removal from Gaseous Streams and its Fixation in Hydroxyapatite-Based Adsorbents Modified with Copper Sulphide. <i>Adsorption Science and Technology</i> , 2015 , 33, 175-190	3.6	2
85	Process Alternatives for Second Generation Ethanol Production from Sugarcane Bagasse. <i>Computer Aided Chemical Engineering</i> , 2015 , 1349-1354	0.6	2

84	Thermophysical Properties of Amorphous-Paracrystalline Celluloses by Molecular Dynamics. <i>Macromolecular Theory and Simulations</i> , 2020 , 29, 2000007	1.5	2
83	Nonlinear model predictive control application for gas-lift based oil production. <i>Computer Aided Chemical Engineering</i> , 2018 , 43, 1177-1182	0.6	2
82	Reinforcement Learning Applied to Process Control: A Van der Vusse Reactor Case Study. <i>Computer Aided Chemical Engineering</i> , 2018 , 553-558	0.6	2
81	Procedures to model and solve probabilistic dynamic system problems. <i>Reliability Engineering and System Safety</i> , 2019 , 191, 106554	6.3	2
80	Enhanced Surrogate Assisted Global Optimization Algorithm Based on Maximizing Probability of Improvement. <i>Computer Aided Chemical Engineering</i> , 2017 , 2065-2070	0.6	2
79	HIGHLY-ACCURATE MODEL ORDER REDUCTION TECHNIQUE ON A DISCRETE DOMAIN. <i>Brazilian Journal of Chemical Engineering</i> , 2015 , 32, 767-779	1.7	2
78	State estimation of chemical engineering systems tending to multiple solutions. <i>Brazilian Journal of Chemical Engineering</i> , 2014 , 31, 771-785	1.7	2
77	Solving dynamic optimization infeasibility problems. <i>Computers and Chemical Engineering</i> , 2012 , 36, 22	7- 2 46	2
76	A New Process Noise Covariance Matrix Tuning Algorithm for Kalman Based State Estimators. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 572-577		2
75	AN ALGORITHM FOR AUTOMATIC SELECTION AND ESTIMATION OF MODEL PARAMETERS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 789-794		2
74	Utilizaß da tcnica de birrefringßcia em remetro multipasse para a diferenciaß de grades de poliestireno cristal. <i>Polimeros</i> , 2014 , 24, 596-603	1.6	2
73	Catalisadores metalocíficos suportados para a produß de poliolefinas: revisß das estratgias de imobilizaß. <i>Quimica Nova</i> , 2011 , 34, 646-657	1.6	2
72	Dynamic study of the evaporation stage of an integrated first and second generation ethanol sugarcane biorefinery using EMSO software. <i>Chemical Engineering Research and Design</i> , 2020 , 153, 613	-625	2
71	Equation of state based on the hole-lattice theory and surface-charge density (COSMO): Part B [] Vapor[]quid equilibrium for mixtures. <i>Fluid Phase Equilibria</i> , 2016 , 419, 1-10	2.5	2
70	AN APPROACH TO OPTIMIZE COSTS DURING ULTRA-LOW HYDRODESULFURIZATION OF A BLEND CONSISTING OF DIFFERENT OIL STREAMS. <i>Brazilian Journal of Chemical Engineering</i> , 2018 , 35, 1293-13	o4 ^{.7}	2
69	Preliminary Design of a Municipal Solid Waste Biorefinery for Environmentally Friendly NH3Production. <i>Industrial & Engineering Chemistry Research</i> , 2018 ,	3.9	2
68	Dynamics and MPC of an Evaporative Continuous Crystallization Process. <i>Computer Aided Chemical Engineering</i> , 2018 , 43, 997-1002	0.6	2
67	Optimal performance comparison of the simulated moving bed process variants based on the modulation of the length of zones and the feed concentration. <i>Journal of Chromatography A</i> , 2021 , 1651, 462280	4.5	2

66	MODEL PREDICTIVE CONTROL FOR PRODUCTION OF ULTRA-LOW SULFUR DIESEL IN A HYDROTREATING PROCESS. <i>Brazilian Journal of Chemical Engineering</i> , 2019 , 36, 439-452	1.7	1
65	Tuning of Model Predictive Control Based on Hybrid Optimization. IFAC-PapersOnLine, 2019, 52, 136-14	1 10.7	1
64	Modeling of Catalyst Deactivation in Bioethanol Dehydration Reactor. <i>Industrial & amp; Engineering Chemistry Research</i> , 2019 , 58, 2717-2726	3.9	1
63	Cost analysis of forward osmosis and reverse osmosis in a case study 2020 , 305-324		1
62	A morphological approach to the automatic detection of dark fringes applied to birefringence images 2016 ,		1
61	Assessment of the Accuracy and Dynamic Simulation Capabilities of Liquid-Vapour Two-Phase Flow Separated and Mixture Models. <i>Computer Aided Chemical Engineering</i> , 2017 , 2095-2100	0.6	1
60	Differential-Algebraic Approach to Solve Steady-State Two-Phase Flow Drift-Flux Model with Phase Change. <i>Computer Aided Chemical Engineering</i> , 2015 , 37, 317-322	0.6	1
59	Wavelet-Threshold Influence in Optimal Control Problems. <i>Computer Aided Chemical Engineering</i> , 2012 , 30, 1222-1226	0.6	1
58	An Efficient Adjoint-Free Dynamic Optimization Methodology for Batch Processing using Pontryagin's Formulation. <i>Computer Aided Chemical Engineering</i> , 2012 , 30, 1297-1301	0.6	1
57	The use of Gauss-Hermite quadrature in the determination of the molecular weight distribution of linear polymers by rheometry. <i>Brazilian Journal of Chemical Engineering</i> , 2013 , 30, 909-921	1.7	1
56	Fluid Dynamics Simulation for Design of a Biomass Gasifier. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 1071-1076	0.6	1
55	A Continuous Implementation of the Ideal Time Delay in EMSO. <i>Computer Aided Chemical Engineering</i> , 2009 , 273-278	0.6	1
54	Adaptive Random Search: A Promising Method for Determining the Stability of Mixtures. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 321-326	0.6	1
53	Data treatment and analysis for on-line dynamic process optimization. <i>Computer Aided Chemical Engineering</i> , 2008 , 25, 519-524	0.6	1
52	Uma nova metodologia para a simula ® de escoamentos de fluidos viscoel ® ticos. <i>Polimeros</i> , 2005 , 15, 53-58	1.6	1
51	On the positivity of multivariable scalar functions. <i>Journal of the Franklin Institute</i> , 2001 , 338, 509-516	4	1
50	The waveform relaxation method in the concurrent dynamic process simulation. <i>Computers and Chemical Engineering</i> , 1993 , 17, S453-S465	4	1
49	Dynamic process simulation using a concurrent differential and algebraic solver. <i>Computers and Chemical Engineering</i> , 1993 , 17, S467-S472	4	1

48	STEADY STATE AND PSEUDO-TRANSIENT ELECTRIC POTENTIAL USING THE POISSONBOLTZMANN EQUATION. <i>Brazilian Journal of Chemical Engineering</i> , 2015 , 32, 293-302	1.7	1
47	Divided Wall Column Modeling and Simulation in an Open-Source Environment. <i>Chemical and Biochemical Engineering Quarterly</i> , 2020 , 34, 149-167	1.8	1
46	Neural Networks Modeling of Dearomatization of Distillate Cuts with Furfural to Produce Lubricants. <i>Computer Aided Chemical Engineering</i> , 2016 , 38, 247-252	0.6	1
45	A NEW BENCHMARK FOR PLANTWIDE PROCESS CONTROL. <i>Brazilian Journal of Chemical Engineering</i> , 2016 , 33, 985-1002	1.7	1
44	MODELING STYRENE HYDROGENATION KINETICS USING PALLADIUM CATALYSTS. <i>Brazilian Journal of Chemical Engineering</i> , 2016 , 33, 637-647	1.7	1
43	Model Reformulation and Global Optimization of Oil Production Using Gas Lift. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 10114-10120	3.9	1
42	Optimization of an Integrated First- and Second-Generation Ethanol Production Plant with Focus on Hydrolysis Parameters. <i>Computer Aided Chemical Engineering</i> , 2019 , 241-246	0.6	1
41	Direct computation of Hopf bifurcation points in differential-algebraic equations. <i>Computers and Chemical Engineering</i> , 2019 , 121, 639-645	4	1
40	Optimal Control of Crystal Size and Shape in Batch Crystallization Using a Bivariate Population Balance Modeling. <i>IFAC-PapersOnLine</i> , 2021 , 54, 653-660	0.7	1
39	Optimal Enantiomer Crystallization Operation using Ternary Diagram Information. <i>Computer Aided Chemical Engineering</i> , 2018 , 44, 499-504	0.6	1
38	A Real-Time Optimization Strategy for Small-Scale Facilities and Implementation in a Gas Processing Unit. <i>Processes</i> , 2021 , 9, 1179	2.9	1
37	Virtual flow metering of oil wells for a pre-salt field. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 203, 108586	4.4	1
36	A Temporal Evolution Perspective of Lipase Production by Yarrowia lipolytica in Solid-State Fermentation. <i>Processes</i> , 2022 , 10, 381	2.9	1
35	Estimation of the nonlinear parameters of viscoelastic constitutive models using CFD and multipass rheometer data. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2020 , 281, 104284	2.7	O
34	Modeling and dynamic simulation of a two-stage pre-denitrification MBBR system under increasing organic loading rates. <i>Bioprocess and Biosystems Engineering</i> , 2018 , 41, 1573-1587	3.7	O
33	A smart safety system for chemical processes. <i>Computer Aided Chemical Engineering</i> , 2015 , 37, 1799-18	3 0. 6	O
32	Dynamic behaviour and control of an industrial fluidised-bed polymerisation reactor. <i>Computer Aided Chemical Engineering</i> , 2005 , 409-414	0.6	О
31	Addressing scale and seasonality in the design of sugarcane to ethylene glycol biorefineries. Journal of Cleaner Production, 2022 , 337, 130585	10.3	O

30	QUADRATURE ALGORITHMS FOR PHASE EQUILIBRIUM OF CONTINUOUS MIXTURES. <i>Brazilian Journal of Chemical Engineering</i> , 2019 , 36, 1303-1318	1.7	O
29	Effect of doping concentration and sintering atmosphere on the microstructural and electrical characteristics of Y-doped SrTiO3 perovskite anode for SOFC. <i>Ceramics International</i> , 2021 , 47, 13331-1.	3 3 38	O
28	Molecular dynamics of dissolution of a 36-chain cellulose Ilmicrofibril at different temperatures above the critical pressure of water. <i>Journal of Molecular Liquids</i> , 2021 , 336, 116271	6	O
27	Improvement of black oil delumping method applied to an offshore oil field. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 214, 110514	4.4	O
26	NMPC integrated with optimization layer in offshore production. <i>IFAC-PapersOnLine</i> , 2019 , 52, 502-507	0.7	
25	Inferring kinetic dissolution of NaCl in aqueous glycol solution using a low-cost apparatus and population balance model. <i>Canadian Journal of Chemical Engineering</i> , 2020 , 98, 2435-2450	2.3	
24	Integration of Prognostics and Control of an Oil/CO2 Subsea Separation System. <i>Processes</i> , 2020 , 8, 148	3 2.9	
23	A morphological approach to the automatic detection of dark fringes of birefringence images obtained in a multipass rheometer. <i>Rheologica Acta</i> , 2020 , 59, 177-200	2.3	
22	Fast Nonlinear Predictive Control and State Estimation of Distillation Columns Using First-Principles Reduced-order Model. <i>Computer Aided Chemical Engineering</i> , 2014 , 33, 715-720	0.6	
21	Simulaß operacional de uma torre de destilaß atmosffica via Aspen Plus e avaliaß de modelos de analisadores virtuais. <i>Controle and Automacao</i> , 2009 , 20, 305-322		
20	Modeling of Ammonia Removal in RBCs: An Industrial Case. <i>Computer Aided Chemical Engineering</i> , 2009 , 507-512	0.6	
19	Hybrid Monitoring of Offshore Compression Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 245-250		
18	Debugging for equation-oriented CAPE tools. Computer Aided Chemical Engineering, 2007, 237-242	0.6	
17	DEBUGGING STATIC AND DYNAMIC RIGOROUS MODELS FOR EQUATION-ORIENTED CAPE TOOLS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 291-296		
16	DYNAMIC REAL-TIME OPTIMIZATION OF A FCC CONVERTER UNIT. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2006 , 39, 1055-1061		
15	A New Signal Design Tool for Process Model Identification. <i>IFAC Postprint Volumes IPPV /</i> International Federation of Automatic Control, 2004 , 37, 23-28		
14	Extending the ZubovS Theorem to Compass Estimates of the Domain of Attraction for Autonomous Systems 1. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 401-405		
13	Local thermodynamic models networks: A novel approach for process simulation. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001 , 34, 493-498		_

5.5

0.6

Automatic structural characterization of DAE systems. Computer Aided Chemical Engineering, 2001, 123-128 12 Automatic Integration of High-Index Dynamic Systems. Computer Aided Chemical Engineering, 2002, 0.6 11 10,865-870 A Novel Algorithm to Local Model Network Generation. IFAC Postprint Volumes IPPV / International 10 Federation of Automatic Control, 2000, 33, 383-388 Nonlinear dynamic analysis and numerical continuation of periodic orbits in high-index differential lgebraic equation systems. Nonlinear Dynamics, 1 Nonlinear dynamic analysis of chemical engineering processes described by differential-algebraic 8 0.6 equations systems. Computer Aided Chemical Engineering, 2019, 46, 769-774 Soraia: A Petrobras system of revenue optimization and artificial intelligence 2020, 20, 390-391 6 Practical aspects on nonlinear state estimation. Computer Aided Chemical Engineering, 2012, 30, 1272-12066 Optimal Wavelet-Threshold Selection to Solve Dynamic Optimization Problems. Computer Aided 0.6 Chemical Engineering, 2014, 247-252 Economics of Climate Change: a Sensitivity Analysis Study Applied to Integrated First- and 0.6 Second-Generation Ethanol Biorefinery. Computer Aided Chemical Engineering, 2020, 48, 1705-1710 Pipeline design with flow assurance constraints in offshore production lines. Brazilian Journal of 1.7 Chemical Engineering, 2020, 37, 555-568

Shear Flow and Relaxation Behaviors of Entangled Viscoelastic Nanorod-Stabilized Immiscible

Optimization of Aeration Power in a SBR. Computer Aided Chemical Engineering, 2016, 1341-1346

Polymer Blends. *Macromolecules*, **2021**, 54, 4198-4210