K Yamuna Rani

List of Publications by Year
in descending order

30	508	759055 12	677027 22
papers	citations	h-index	g-index

31	31	31	484
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Control of fermenters â€“ a review. Bioprocess and Biosystems Engineering, 1999, 21, 77-88.	0.5	142
2	Solvent resistant chitosan/poly(ether-block-amide) composite membranes for pervaporation of n-methyl-2-pyrrolidone/water mixtures. Carbohydrate Polymers, 2016, 136, 1170-1181.	5.1	46
3	Separation of NMP/water mixtures by nanocomposite PEBA membrane: Part I. Membrane synthesis, characterization and pervaporation performance. Desalination, 2013, 330, 1-8.	4.0	40
4	Self-sustained process scheme for high purity hydrogen production using sorption enhanced steam methane reforming coupled with chemical looping combustion. Journal of Cleaner Production, 2017, 162, 687-701.	4.6	37
5	Adaptive generic model control: Dual composition control of distillation. AICHE Journal, 1991, 37, 1634-1644.	1.8	33
6	A Review on Property Estimation Methods and Computational Schemes for Rational Solvent Design: A Focus on Pharmaceuticals. Industrial & Engineering Chemistry Research, 2013, 52, 6869-6893.	1.8	25
7	Data-Driven Model Based Control of a Multi-Product Semi-Batch Polymerization Reactor. Chemical Engineering Research and Design, 2007, 85, 1397-1406.	2.7	18
8	Multi-objective optimization of a reactive batch distillation process using reduced order model. Computers and Chemical Engineering, 2017, 106, 40-56.	2.0	18
9	Multiobjective Optimization of Unseeded and Seeded Batch Cooling Crystallization Processes. Industrial & Engineering Chemistry Research, 2017, 56, 6012-6021.	1.8	14
10	Multiobjective optimization and experimental validation for batch cooling crystallization of citric acid anhydrate. Computers and Chemical Engineering, 2018, 112, 292-303.	2.0	14
11	Data-Driven Modeling and Optimization of Semibatch Reactors Using Artificial Neural Networksâ€. Industrial & Engineering Chemistry Research, 2004, 43, 7539-7551.	1.8	13
12	Sensitivity Compensating Control: Data-driven model based adaptive approach. Journal of Process Control, 2011, 21, 1265-1286.	1.7	13
13	Comparative Study of Different Cascade Control Configurations for a Multiproduct Semibatch Polymerization Reactor. Industrial & Engineering Chemistry Research, 2014, 53, 14735-14754.	1.8	13
14	Comparative assessment of performances of different oxygen carriers in a chemical looping combustion coupled intensified reforming process through simulation study. Journal of Cleaner Production, 2020, 262, 121146.	4.6	12
15	Development of kinetic models for acidâ€catalyzed methyl acetate formation reaction: Effect of catalyst concentration and water inhibition. International Journal of Chemical Kinetics, 2011, 43, 263-277.	1.0	11
16	A Simple Algorithm for Vaporâ€“Liquidâ€“Liquid Equilibrium Computation. Industrial & Engineering Chemistry Research, 2012, 51, 10719-10730.	1.8	7
17	Sensitivity compensating nonlinear control: Exact model based approach. Journal of Process Control, 2012, 22, 564-582.	1.7	7
18	Experimental analysis in different batch operating units for process intensification: methyl acetate production case study. International Journal of Industrial Chemistry, 2014, 5, 85-93.	3.1	6

#	Article	IF	Citations
19	Prediction of Vaporâ€“Liquid Coexistence Data for p-Cymene Using Equation of State Methods and Monte Carlo Simulations. Journal of Chemical & Engineering Data, 2014, 59, 2987-2994.	1.0	6
20	Parameterized data-driven fuzzy model based optimal control of a semi-batch reactor. ISA Transactions, 2016, 64, 418-430.	3.1	6
21	Robust Trajectory Tracking in a Reactive Batch Distillation Process using Multirate Nonlinear Internal Model Control. Industrial & Engineering Chemistry Research, 2019, 58, 11364-11381.	1.8	5
22	EXTENDED KALMAN FILTER CONTROLLER: FIRST PRINCIPLES MODELS TO NEURAL NETWORKS. Chemical Engineering Communications, 2006, 193, 1294-1320.	1.5	4
23	Prediction of vapourâ€“liquid coexistence data of Phenylacetylcarbinol. Fluid Phase Equilibria, 2014, 364, 6-14.	1.4	4
24	Nonlinear control strategies based on Adaptive ANN models: Multi-product semi-batch polymerization reactor case study. Chemical Engineering Research and Design, 2017, 121, 255-274.	2.7	4
25	AUTOMATICALLY CONFIGURING RADIAL BASIS FUNCTION NEURAL NETWORKS FOR NONLINEAR INTERNAL MODEL CONTROL. Chemical Engineering Communications, 1999, 172, 225-250.	1.5	3
26	Adaptive Generic Model Control of Multivariable Processes: Application to Semi-Batch Reactors with Different Relative Degrees. Chemical Engineering Communications, 2017, 204, 607-617.	1.5	2
27	Kinetic modeling of liquidâ€phase esterification of acetic acid with n â€butanol using heterogeneous poly(o â€methylene p â€toluene sulfonic acid) as catalyst. International Journal of Chemical Kinetics, 2020, 52, 822-837.	1.0	2
28	Iterative EKF as a Controller in Novel MPC Formulation: First Principles Model Based IEKF-MPC for SISO Systems. Computers and Chemical Engineering, 2022, , 107833.	2.0	2
29	Application of artificial neural networkâ€based generic model control to multivariable processes. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 775-789.	0.8	1
30	Molecular Weight Control in Semi Batch Copolymerization Reactor through Temperature Tracking: Evaluation of Control Strategies. , 2019, , .		0