

# K Yamuna Rani

## List of Publications by Year in descending order

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30  
papers

508  
citations

759055

12  
h-index

677027

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g-index

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31  
docs citations

31  
times ranked

484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Iterative EKF as a Controller in Novel MPC Formulation: First Principles Model Based IEKF-MPC for SISO Systems. <i>Computers and Chemical Engineering</i> , 2022, , 107833.	2.0	2
2	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. <i>International Journal of Chemical Kinetics</i> , 2020, 52, 822-837.	1.0	2
3	Comparative assessment of performances of different oxygen carriers in a chemical looping combustion coupled intensified reforming process through simulation study. <i>Journal of Cleaner Production</i> , 2020, 262, 121146.	4.6	12
4	Molecular Weight Control in Semi Batch Copolymerization Reactor through Temperature Tracking: Evaluation of Control Strategies. , 2019, , .		0
5	Robust Trajectory Tracking in a Reactive Batch Distillation Process using Multirate Nonlinear Internal Model Control. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 11364-11381.	1.8	5
6	Multiobjective optimization and experimental validation for batch cooling crystallization of citric acid anhydrate. <i>Computers and Chemical Engineering</i> , 2018, 112, 292-303.	2.0	14
7	Adaptive Generic Model Control of Multivariable Processes: Application to Semi-Batch Reactors with Different Relative Degrees. <i>Chemical Engineering Communications</i> , 2017, 204, 607-617.	1.5	2
8	Multiobjective Optimization of Unseeded and Seeded Batch Cooling Crystallization Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 6012-6021.	1.8	14
9	Self-sustained process scheme for high purity hydrogen production using sorption enhanced steam methane reforming coupled with chemical looping combustion. <i>Journal of Cleaner Production</i> , 2017, 162, 687-701.	4.6	37
10	Multi-objective optimization of a reactive batch distillation process using reduced order model. <i>Computers and Chemical Engineering</i> , 2017, 106, 40-56.	2.0	18
11	Nonlinear control strategies based on Adaptive ANN models: Multi-product semi-batch polymerization reactor case study. <i>Chemical Engineering Research and Design</i> , 2017, 121, 255-274.	2.7	4
12	Application of artificial neural networkâ€‘based generic model control to multivariable processes. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2017, 12, 775-789.	0.8	1
13	Parameterized data-driven fuzzy model based optimal control of a semi-batch reactor. <i>ISA Transactions</i> , 2016, 64, 418-430.	3.1	6
14	Solvent resistant chitosan/poly(ether-block-amide) composite membranes for pervaporation of n-methyl-2-pyrrolidone/water mixtures. <i>Carbohydrate Polymers</i> , 2016, 136, 1170-1181.	5.1	46
15	Prediction of vapourâ€‘liquid coexistence data of Phenylacetylcarbinol. <i>Fluid Phase Equilibria</i> , 2014, 364, 6-14.	1.4	4
16	Experimental analysis in different batch operating units for process intensification: methyl acetate production case study. <i>International Journal of Industrial Chemistry</i> , 2014, 5, 85-93.	3.1	6
17	Prediction of Vaporâ€‘Liquid Coexistence Data for p-Cymene Using Equation of State Methods and Monte Carlo Simulations. <i>Journal of Chemical &amp; Engineering Data</i> , 2014, 59, 2987-2994.	1.0	6
18	Comparative Study of Different Cascade Control Configurations for a Multiproduct Semibatch Polymerization Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 14735-14754.	1.8	13

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19	Separation of NMP/water mixtures by nanocomposite PEBA membrane: Part I. Membrane synthesis, characterization and pervaporation performance. <i>Desalination</i> , 2013, 330, 1-8.	4.0	40
20	A Review on Property Estimation Methods and Computational Schemes for Rational Solvent Design: A Focus on Pharmaceuticals. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 6869-6893.	1.8	25
21	A Simple Algorithm for Vapor-Liquid Equilibrium Computation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 10719-10730.	1.8	7
22	Sensitivity compensating nonlinear control: Exact model based approach. <i>Journal of Process Control</i> , 2012, 22, 564-582.	1.7	7
23	Sensitivity Compensating Control: Data-driven model based adaptive approach. <i>Journal of Process Control</i> , 2011, 21, 1265-1286.	1.7	13
24	Development of kinetic models for acid-catalyzed methyl acetate formation reaction: Effect of catalyst concentration and water inhibition. <i>International Journal of Chemical Kinetics</i> , 2011, 43, 263-277.	1.0	11
25	Data-Driven Model Based Control of a Multi-Product Semi-Batch Polymerization Reactor. <i>Chemical Engineering Research and Design</i> , 2007, 85, 1397-1406.	2.7	18
26	EXTENDED KALMAN FILTER CONTROLLER: FIRST PRINCIPLES MODELS TO NEURAL NETWORKS. <i>Chemical Engineering Communications</i> , 2006, 193, 1294-1320.	1.5	4
27	Data-Driven Modeling and Optimization of Semibatch Reactors Using Artificial Neural Networks. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 7539-7551.	1.8	13
28	Control of fermenters – a review. <i>Bioprocess and Biosystems Engineering</i> , 1999, 21, 77-88.	0.5	142
29	AUTOMATICALLY CONFIGURING RADIAL BASIS FUNCTION NEURAL NETWORKS FOR NONLINEAR INTERNAL MODEL CONTROL. <i>Chemical Engineering Communications</i> , 1999, 172, 225-250.	1.5	3
30	Adaptive generic model control: Dual composition control of distillation. <i>AIChE Journal</i> , 1991, 37, 1634-1644.	1.8	33