

Subramaniam Pushpavanam

List of Publications by Year in descending order

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145
papers

1,820
citations

331670

21
h-index

361022

35
g-index

146
all docs

146
docs citations

146
times ranked

1732
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous refolding of L-asparaginase inclusion bodies using periodic counter-current chromatography. <i>Journal of Chromatography A</i> , 2022, 1662, 462746.	3.7	6
2	Continuous synthesis of surfactant stabilised water in diesel emulsion by steam condensation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 180, 108906.	3.6	0
3	Adsorptive colorimetric determination of chromium(VI) ions at ultratrace levels using amine functionalized mesoporous silica. <i>Scientific Reports</i> , 2022, 12, 5673.	3.3	6
4	Adsorptive preconcentration integrated with colorimetry for ultra-sensitive detection of lead and copper. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 4089-4102.	3.7	3
5	Motion of an active particle in a linear concentration gradient. <i>Physics of Fluids</i> , 2021, 33, .	4.0	21
6	Comment on "Migration of an electrophoretic particle in a weakly inertial or viscoelastic shear flow". <i>Physical Review Fluids</i> , 2021, 6, .	2.5	6
7	Continuous synthesis of copper nanoparticles using a polyol process in a milli-channel reactor. <i>Journal of Flow Chemistry</i> , 2021, 11, 661-674.	1.9	5
8	Sensitive and selective determination of triclosan using visual spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 254, 119623.	3.9	11
9	A Network Architecture for Bidirectional Neurovascular Coupling in Rat Whisker Barrel Cortex. <i>Frontiers in Computational Neuroscience</i> , 2021, 15, 638700.	2.1	7
10	Unraveling reaction pathways for tuning bimetallic nanoparticle structures: role of reactant addition sequence. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	1.9	5
11	Self-propulsion in 2D confinement: phoretic and hydrodynamic interactions. <i>European Physical Journal E</i> , 2021, 44, 97.	1.6	5
12	Semi-batch and continuous production of Pickering emulsion via direct contact steam condensation. <i>Soft Matter</i> , 2021, 17, 9636-9643.	2.7	3
13	Effect of weak solute advection on a chemically active particle under the influence of an external concentration gradient. <i>Physical Review Fluids</i> , 2021, 6, .	2.5	0
14	A thermodynamic model for reactive extraction of macro amounts of zirconium and hafnium with TBP. <i>Separation and Purification Technology</i> , 2020, 240, 116491.	7.9	3
15	Non-Newtonian effects on the slip and mobility of a self-propelling active particle. <i>Journal of Fluid Mechanics</i> , 2020, 899, .	3.4	7
16	Modeling Temperature-Dependent Sex Determination in Oviparous Species Using a Dynamical Systems Approach. <i>Bulletin of Mathematical Biology</i> , 2020, 82, 89.	1.9	3
17	Hydrodynamics of a compound drop in plane Poiseuille flow. <i>Physics of Fluids</i> , 2020, 32, 072003.	4.0	14
18	Electrokinetically enhanced cross-stream particle migration in viscoelastic flows. <i>Journal of Fluid Mechanics</i> , 2020, 898, .	3.4	12

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19	Multiplicity, travelling waves and spatial patterns in coupled autocatalytic reaction systems. <i>Chemical Engineering Science</i> , 2020, 218, 115565.	3.8	2
20	Simultaneous Synthesis and Separation of Nanoparticles Using Aqueous Two-Phase Systems. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 3013-3025.	6.7	24
21	Inertial focusing in two dimensional flows with sharp viscosity stratification in a microchannel. <i>Journal of Micromechanics and Microengineering</i> , 2020, 30, 115009.	2.6	1
22	Unified Thermodynamic Model for Performance Prediction of Adiabatic Feedstock Gasifiers. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19751-19769.	3.7	7
23	Inertial migration of an electrophoretic rigid sphere in a two-dimensional Poiseuille flow. <i>Journal of Fluid Mechanics</i> , 2019, 874, 856-890.	3.4	20
24	Inertial focusing of a neutrally buoyant particle in stratified flows. <i>Physics of Fluids</i> , 2019, 31, 102006.	4.0	9
25	Unified Framework for Modeling Reactive Extraction of Metals: Illustration on Plutonium(IV) Extraction with Tri-n-butyl Phosphate. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 20788-20796.	3.7	6
26	Removal of trace hexavalent chromium from aqueous solutions by ion foam fractionation. <i>Journal of Hazardous Materials</i> , 2019, 367, 589-598.	12.4	54
27	Adsorption of Fluoroquinolone Antibiotics at the Gas-Liquid Interface Using Ionic Surfactants. <i>Langmuir</i> , 2019, 35, 12839-12850.	3.5	14
28	Modelling mass transfer in liquid-liquid slug flow in a microchannel. <i>Chemical Engineering Journal</i> , 2019, 364, 280-291.	12.7	17
29	Fabrication of laser printed microfluidic paper-based analytical devices (LP- μ PADs) for point-of-care applications. <i>Scientific Reports</i> , 2019, 9, 7896.	3.3	86
30	Transport and Kinetic Effects on the Morphology of Silver Nanoparticles in a Millifluidic System. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5820-5829.	3.7	7
31	Liquid-liquid extraction in laminar two-phase stratified flows in capillary microchannels. <i>Chemical Engineering Science</i> , 2019, 195, 242-249.	3.8	4
32	Symmetric and asymmetric coupled autocatalytic reactions in an isothermal CSTR. <i>Chemical Engineering Journal</i> , 2018, 337, 642-653.	12.7	4
33	Experimental validation of equilibrium based mathematical modelling of liquid-liquid phase transfer catalysis. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 731-738.	1.7	0
34	A hybrid thermo-kinetic model for high temperature plasma gasification. <i>AIChE Journal</i> , 2018, 64, 2592-2602.	3.6	4
35	Development of a Thermodynamic Model Using a Speciation Framework: Illustration on the HNO ₃ -H ₂ O System. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5136-5141.	3.7	4
36	Stability of stratified flows through neo-Hookean soft-gel-coated walls. <i>Physics of Fluids</i> , 2018, 30, 104103.	4.0	3

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37	Effect of soluble surfactants on the stability of stratified flows through soft-gel-coated walls. <i>Physical Review E</i> , 2018, 98, 023106.	2.1	4
38	Integrated Microfluidic Device for Continuous Separation and Preconcentration of Surface Active Solutes. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 11414-11423.	3.7	3
39	Layered two-phase flows in microchannels with arbitrary interface-wall contact angles. <i>Chemical Engineering Science</i> , 2018, 192, 1058-1070.	3.8	3
40	Phase transfer catalysis in a microchannel: Paradoxical effect of transition from kinetic control to mass transfer control. <i>Chemical Engineering Journal</i> , 2017, 317, 1047-1058.	12.7	4
41	Recycle Flows in Lab-on-Chip Applications Using Electroosmotic Effects. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4145-4155.	3.7	1
42	Numerical study of enhanced mixing in pressure-driven flows in microchannels using a spatially periodic electric field. <i>Physical Review E</i> , 2017, 96, 033117.	2.1	22
43	Process intensification by exploiting Dean vortices in catalytic membrane microreactors. <i>Chemical Engineering Science</i> , 2017, 174, 413-425.	3.8	8
44	Linear stability of layered two-phase flows through parallel soft-gel-coated walls. <i>Physical Review E</i> , 2017, 96, 013119.	2.1	5
45	Coupled autocatalytic reactions: Interconversion and extinction of species. <i>Chemical Engineering Science</i> , 2017, 160, 254-268.	3.8	6
46	Effect of sequential addition of precursor in synthesis of Ag-Cu nanoparticles. , 2017, , .		3
47	Solutal Marangoni instability in layered two-phase flows. <i>Journal of Fluid Mechanics</i> , 2016, 793, 280-315.	3.4	20
48	<i>In vitro</i> biocompatibility and antimicrobial activity of chitin monomer obtain from hollow fiber membrane. <i>Designed Monomers and Polymers</i> , 2016, 19, 445-455.	1.6	12
49	Synthesis and characterization of chitosan-TiO ₂ :Cu nanocomposite and their enhanced antimicrobial activity with visible light. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 566-575.	5.0	78
50	Experimental study of rotating dry slag granulation unit: Operating regimes, particle size analysis and scale up. <i>Applied Thermal Engineering</i> , 2016, 107, 898-906.	6.0	40
51	Experimental simulation of fragmentation and stratification of core debris on the core catcher of a fast breeder reactor. <i>Nuclear Engineering and Design</i> , 2016, 301, 39-48.	1.7	6
52	Comparison of liquid-liquid extraction in batch systems and micro-channels. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 104, 190-200.	3.6	55
53	A Viscous Potential Flow model for core-annular flow. <i>Applied Mathematical Modelling</i> , 2016, 40, 5044-5062.	4.2	2
54	Periodically-forced density wave oscillations in boiling flow at low forcing frequencies: Nonlinear dynamics and control issues. <i>Chemical Engineering Science</i> , 2016, 140, 123-133.	3.8	6

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55	Laterally stratified flow in a curved microchannel. <i>International Journal of Multiphase Flow</i> , 2015, 75, 39-53.	3.4	2
56	Understanding the Shape of Ant Craters: A Continuum Model. <i>Bulletin of Mathematical Biology</i> , 2015, 77, 470-487.	1.9	1
57	Dynamics of anode-cathode interaction in a polymer electrolyte fuel cell revealed by simultaneous current and potential distribution measurements under local reactant-starvation conditions. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 353-363.	2.9	9
58	Generalized thermodynamic analysis of methanol synthesis: Effect of feed composition. <i>Journal of CO2 Utilization</i> , 2015, 10, 95-104.	6.8	44
59	Centrifugal instability of stratified two-phase flow in a curved channel. <i>Physics of Fluids</i> , 2015, 27, 054106.	4.0	6
60	Modelling Extraction in Microchannels with Stratified Flow: Channel Geometry, Flow Configuration and Marangoni Stresses. <i>Indian Chemical Engineer</i> , 2015, 57, 322-358.	1.5	4
61	Chaotic mixing in a planar, curved channel using periodic slip. <i>Physics of Fluids</i> , 2015, 27, .	4.0	19
62	Low-Dimensional Modeling of Transport and Reactions in Two-Phase Stratified Flow. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10481-10496.	3.7	5
63	Shifting and breakup instabilities of squeezed elliptic jets. <i>International Journal of Multiphase Flow</i> , 2014, 67, 189-199.	3.4	8
64	Dynamics and Control of Energy Systems—A Recent Perspective: Preface to the Special Issue on Energy System Modeling and Optimization Conference (ESMOC 2013). <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 19653-19653.	3.7	0
65	Generalized Thermodynamic Analysis of High Pressure Air Blown Gasifier. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 18750-18760.	3.7	5
66	Holdup characteristics of two-phase parallel microflows. <i>Microfluidics and Nanofluidics</i> , 2014, 16, 1057-1067.	2.2	16
67	Vertically stratified two-phase flow in a curved channel: Insights from a domain perturbation analysis. <i>Physics of Fluids</i> , 2014, 26, 073604.	4.0	8
68	Performance Comparison of Liquid-Liquid Extraction in Parallel Microflows. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 8171-8181.	3.7	16
69	A Robust and Efficient Algorithm for Computing Reactive Equilibria in Single and Multiphase Systems. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 15278-15286.	3.7	8
70	A holistic approach combining factor analysis, positive matrix factorization, and chemical mass balance applied to receptor modeling. <i>Environmental Monitoring and Assessment</i> , 2013, 185, 10115-10129.	2.7	9
71	On the conditional superiority of counter-current over co-current extraction in microchannels. <i>Microfluidics and Nanofluidics</i> , 2013, 15, 701-713.	2.2	6
72	Core-annular two-phase flow in a gently curved circular channel. <i>AIChE Journal</i> , 2013, 59, 4871-4886.	3.6	8

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73	Generalized Analysis of Gasifier Performance using Equilibrium Modeling. Industrial & Engineering Chemistry Research, 2012, 51, 1601-1611.	3.7	49
74	A nonlinear analysis of the effect of heat transfer on capillary jet instability. Physics of Fluids, 2012, 24, .	4.0	10
75	Comparison of laminar and plug flow-fields on extraction performance in micro-channels. Chemical Engineering Science, 2012, 83, 2-11.	3.8	13
76	CO2 utilization for gasification of carbonaceous feedstocks: A thermodynamic analysis. Chemical Engineering Science, 2012, 83, 159-170.	3.8	106
77	Comparison of Co-Current and Counter-Current Flow Fields on Extraction Performance in Micro-Channels. Advances in Chemical Engineering and Science, 2012, 02, 309-320.	0.5	13
78	Modeling the effect of flow mal-distribution on the performance of a catalytic converter. Chemical Engineering Science, 2012, 71, 310-320.	3.8	41
79	Optimizing performance of liquid-liquid extraction in stratified flow in micro-channels. Journal of Micromechanics and Microengineering, 2011, 21, 115030.	2.6	16
80	Professor M. S. Ananth: Leading Researcher, Gifted Teacher, and Visionary Leader of Higher Education in India. Industrial & Engineering Chemistry Research, 2011, 50, 12845-12846.	3.7	1
81	Multicomponent Dosing in Membrane Reactors Including Recycling-Concept and Demonstration for the Oxidative Dehydrogenation of Propane. Industrial & Engineering Chemistry Research, 2011, 50, 12895-12903.	3.7	11
82	Experimental and Computational Investigation of Two Phase Gas-liquid Flows: Point Source Injection at the Center. Industrial & Engineering Chemistry Research, 2011, 50, 13220-13229.	3.7	5
83	Experimental analysis of spatio-temporal behavior of anodic dead-end mode operated polymer electrolyte fuel cell. Journal of Power Sources, 2011, 196, 9931-9938.	7.8	36
84	Analysis of liquid circulation and mixing in a partitioned electrolytic tank. International Journal of Multiphase Flow, 2011, 37, 1191-1200.	3.4	12
85	Analysis of unsteady gas-liquid flows in a rectangular tank: Comparison of Euler-Eulerian and Euler-Lagrangian simulations. International Journal of Multiphase Flow, 2011, 37, 268-277.	3.4	38
86	IMMISCIBLE FLUID DISPLACEMENT IN POROUS MEDIA: EXPERIMENTS AND SIMULATIONS. Journal of Porous Media, 2011, 14, 423-435.	1.9	1
87	Mathematical modeling in chemical engineering: from lab-scale to field studies. , 2010, , .		0
88	Euler Lagrangian simulation - PIV experiments of two phase gas-liquid systems: point source injection at the center. , 2010, , .		0
89	Refining emission rate estimates using a coupled receptor-dispersion modeling approach. Atmospheric Environment, 2010, 44, 3935-3941.	4.1	4
90	Modeling and simulation of co-gasification of coal and petcoke in a bubbling fluidized bed coal gasifier. Fuel Processing Technology, 2010, 91, 1296-1307.	7.2	24

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91	Phase transfer catalysis of alkaline hydrolysis of n-butyl acetate: Comparison of performance of batch and micro-reactors. <i>Chemical Engineering and Processing: Process Intensification</i> , 2010, 49, 484-489.	3.6	6
92	Effect of Korteweg stress on viscous fingering of solute plugs in a porous medium. <i>Chemical Engineering Science</i> , 2010, 65, 2284-2291.	3.8	15
93	Parameter estimation strategies in batch emulsion polymerization. <i>Chemical Engineering Science</i> , 2010, 65, 4967-4982.	3.8	7
94	Effect of depth on onset of engulfment in rectangular micro-channels. <i>Chemical Engineering Science</i> , 2010, 65, 6486-6490.	3.8	23
95	Experimental and Numerical Investigations of Two-Phase (Liquid~Liquid) Flow Behavior in Rectangular Microchannels. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 893-899.	3.7	83
96	PIV Techniques in Experimental Measurement of Two Phase (Gas-Liquid) Systems. , 2010, , 111-129.		0
97	Adsorption characteristics on sand and brick beds. <i>Chemical Engineering Journal</i> , 2009, 147, 130-138.	12.7	29
98	Issues in the scaling of exothermic reactions: From micro-scale to macro-scale. <i>Chemical Engineering Journal</i> , 2009, 155, 312-319.	12.7	10
99	Screening, Selecting, and Designing Microreactors. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 8678-8684.	3.7	7
100	Conceptual Analysis of the Effect of Kinetics on the Stability and Multiplicity of a Coupled Bioreactor~Separator System Using a Cybernetic Modeling Approach. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 10962-10975.	3.7	6
101	Sensitivity Analysis and Kinetic Parameter Estimation in a Three Way Catalytic Converter. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 3779-3790.	3.7	37
102	Analysis of liquid circulation in a rectangular tank with a gas source at a corner. <i>Chemical Engineering Journal</i> , 2008, 144, 442-452.	12.7	14
103	Early induction of secondary vortices for micromixing enhancement. <i>Microfluidics and Nanofluidics</i> , 2008, 5, 89-99.	2.2	20
104	Characterization of viscoelastic fluid flow in a periodically driven cavity: Flow structure, frequency response, and phase lag. <i>Polymer Engineering and Science</i> , 2008, 48, 1693-1706.	3.1	3
105	Nonlinear analysis of the effect of maintenance in continuous cell cultures. <i>Mathematics and Computers in Simulation</i> , 2008, 79, 728-748.	4.4	1
106	Model discrimination in hydrocracking of vacuum gas oil using discrete lumped kinetics. <i>Fuel</i> , 2008, 87, 1660-1672.	6.4	33
107	Instability of a vertical chemical front: Effect of viscosity and density varying with concentration. <i>Physics of Fluids</i> , 2008, 20, .	4.0	7
108	Variation of spatial and temporal characteristics of reactive flow in a periodically driven cavity: Gelation of sodium acrylate. <i>Physical Review E</i> , 2008, 78, 031407.	2.1	1

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109	Viscous fingering in a horizontal flow through a porous medium induced by chemical reactions under isothermal and adiabatic conditions. <i>Journal of Chemical Physics</i> , 2007, 127, 204701.	3.0	27
110	Effect of Periodic and Continuous Irrigation on Water Transport through Porous Media. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2007, 133, 100-109.	1.0	1
111	Nonlinear Behavior of Reactor~Separator Networks:~Influence of the Energy Balance Formulation. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 1197-1207.	3.7	3
112	Hydrodynamic Characteristics and Expansion Behavior of Beds Containing Single and Binary Mixtures of Particles. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 4686-4694.	3.7	4
113	Adsorption characteristics of inorganic salts and detergents on sand beds. <i>Chemical Engineering Journal</i> , 2007, 125, 177-186.	12.7	11
114	Experimental and numerical investigation of liquid circulation induced by a bubble plume in a baffled tank. <i>Chemical Engineering Science</i> , 2007, 62, 4689-4704.	3.8	3
115	Nonlinear Behavior of Coupled Reactor~Separator Systems with Azeotropic Vapor~Liquid Equilibriums (VLEs):~Comparison of Different Control Strategies. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 1019-1028.	3.7	3
116	Nonlinear Behavior of Reactor~Separator Systems with Azeotropic Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 212-222.	3.7	1
117	Effect of the Minimum Flux Condition in the Settler on the Nonlinear Behavior of the Activated Sludge Process. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 5996-6006.	3.7	7
118	Analysis of Spatiotemporal Variations and Flow Structures in a Periodically Driven Cavity. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2006, 128, 413-420.	1.5	14
119	Nonlinear behavior of reactor separator networks with mass and energy recycle. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2006, 1, 44-53.	1.5	0
120	Experimental and computational investigation of kinematic mixing in a periodically driven cavity. <i>WIT Transactions on Engineering Sciences</i> , 2006, , .	0.0	1
121	Nonlinear behaviour of a low-density polyethylene tubular reactor-separator-recycle system. <i>Computer Aided Chemical Engineering</i> , 2005, 20, 1423-1428.	0.5	3
122	Steady State Behavior of Coupled Nonlinear Reactor~Separator Systems:~Effect of Different Separators. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 2165-2173.	3.7	1
123	Effect of Delay on the Stability of a Coupled Reactor~Flash System Sustaining an Elementary Non-isothermal Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 3619-3625.	3.7	5
124	Effect of Conversion-Dependent Viscosity on the Nonlinear Behavior of a Reactor with Fixed Pressure Drop. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 8284-8292.	3.7	1
125	Multiple steady states in two-phase reactors under boiling conditions. <i>Chemical Engineering Science</i> , 2003, 58, 2203-2214.	3.8	14
126	Effect of Delay on the Stability of a Coupled Reactor~Separator System. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 3758-3764.	3.7	13

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127	Kinetic Parameter Estimation in Hydrocracking Using a Combination of Genetic Algorithm and Sequential Quadratic Programming. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 4723-4731.	3.7	17
128	Nonlinear Behavior of Reactor-Separator Networks: Influence of Separator Control Structure. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 3294-3303.	3.7	14
129	A Comparison of Control Strategies for a Nonlinear Reactor-Separator Network Sustaining an Autocatalytic Isothermal Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 2005-2012.	3.7	10
130	Nonlinear behavior of an ideal reactor separator network with mass recycle. <i>Chemical Engineering Science</i> , 2001, 56, 2837-2849.	3.8	56
131	Determining parameters where pressure drop oscillations occur in a boiling channel using singularity theory and the D-partition method. <i>Chemical Engineering Science</i> , 2000, 55, 3771-3783.	3.8	9
132	The behavior of the iron(III)-catalyzed oxidation of ethanol by hydrogen peroxide in a fed-batch reactor. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 3605-3612.	2.8	9
133	Effect of Noise on the Behavior of a Zeroth-Order Reaction in a Continuous Stirred Tank Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 926-932.	3.7	1
134	Steady state behavior of boiling channels: a comprehensive analysis using singularity theory. <i>Nuclear Engineering and Design</i> , 1999, 190, 303-316.	1.7	0
135	Optimization of a Biochemical Fed-Batch Reactor Using Sequential Quadratic Programming. <i>Industrial & Engineering Chemistry Research</i> , 1999, 38, 1998-2004.	3.7	18
136	Optimization of a Biochemical Fed-Batch Reactor Transition from a Nonsingular to a Singular Problem. <i>Industrial & Engineering Chemistry Research</i> , 1998, 37, 4314-4321.	3.7	8
137	Experimental Implementation of a Recursive Algorithm To Control the Temperature Trajectory of an Exothermic Batch Reactor. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 122-129.	3.7	0
138	Non-linear dynamics of a two phase flow system in an evaporator: The effects of (i) a time varying pressure drop (ii) an axially varying heat flux. <i>Nuclear Engineering and Design</i> , 1997, 178, 279-294.	1.7	26
139	The dynamics of a fed-batch reactor: the transition from the batch to the CSTR. <i>Chemical Engineering Science</i> , 1994, 49, 383-392.	3.8	3
140	Parametric Sensitivity, Runaway, and Safety in Batch Reactors: Experiments and Models. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 3202-3208.	3.7	14
141	The D-partition method: an application to the first-order irreversible exothermic reaction in a CSTR. <i>Chemical Engineering Science</i> , 1992, 47, 502-504.	3.8	1
142	Critical conditions for natural convection induced by a surface reaction. <i>International Journal of Heat and Mass Transfer</i> , 1990, 33, 2056-2059.	4.8	0
143	Ignition and extinction in a model problem with parallel endothermic and exothermic reactions. <i>Chemical Engineering Science</i> , 1989, 44, 2611-2618.	3.8	2
144	Uniqueness conditions for steady solutions in the case of m -th order reactions in non-isothermal pellets with variable transport coefficients. <i>Chemical Engineering Science</i> , 1988, 43, 394-396.	3.8	1

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145	Comparison Results for Ignition in Conjugate Systems. IMA Journal of Applied Mathematics, 1988, 40, 37-51.	1.6	1