

Santosh K Gupta

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178
papers

3,366
citations

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48
g-index

182
ext. papers

3,603
ext. citations

3.3
avg, IF

5.06
L-index

#	Paper	IF	Citations
178	APPLICATIONS OF MULTIOBJECTIVE OPTIMIZATION IN CHEMICAL ENGINEERING. <i>Reviews in Chemical Engineering</i> , 2000 , 16, 1-54	5	238
177	Multi-objective optimization of an industrial fluidized-bed catalytic cracking unit (FCCU) using genetic algorithm (GA) with the jumping genes operator. <i>Computers and Chemical Engineering</i> , 2003 , 27, 1785-1800	4	165
176	Multiobjective Optimization of Steam Reformer Performance Using Genetic Algorithm. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 706-717	3.9	110
175	Multiobjective dynamic optimization of an industrial nylon 6 semibatch reactor using genetic algorithm. <i>Journal of Applied Polymer Science</i> , 1998 , 69, 69-87	2.9	101
174	Multi-objective optimization of reverse osmosis desalination units using different adaptations of the non-dominated sorting genetic algorithm (NSGA). <i>Computers and Chemical Engineering</i> , 2005 , 29, 1977-1995	4	96
173	Multi-objective optimization of industrial hydrogen plants. <i>Chemical Engineering Science</i> , 2001 , 56, 999-1010	4.1	96
172	Multiobjective Optimization of Industrial FCC Units Using Elitist Nondominated Sorting Genetic Algorithm. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 4765-4776	3.9	70
171	Multiobjective optimization of an industrial wiped-film pet reactor. <i>AIChE Journal</i> , 2000 , 46, 1046-1058	3.6	66
170	Multi-objective Optimization of the Operation of an Industrial Low-Density Polyethylene Tubular Reactor Using Genetic Algorithm and Its Jumping Gene Adaptations. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 3182-3199	3.9	65
169	Reaction Engineering of Step Growth Polymerization. <i>The Plenum Chemical Engineering Series</i> , 1987 ,		65
168	Multi-objective optimization of membrane separation modules using genetic algorithm. <i>Journal of Membrane Science</i> , 2000 , 176, 177-196	9.6	58
167	Jumping gene adaptations of NSGA-II and their use in the multi-objective optimal design of shell and tube heat exchangers. <i>Chemical Engineering Research and Design</i> , 2008 , 86, 123-139	5.5	55
166	Multi-objective Optimal Synthesis and Design of Froth Flotation Circuits for Mineral Processing, Using the Jumping Gene Adaptation of Genetic Algorithm. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 2621-2633	3.9	53
165	Dynamic Model of an Industrial Steam Reformer and Its Use for Multiobjective Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 4028-4042	3.9	52
164	Multiobjective optimization of an industrial wiped film poly(ethylene terephthalate) reactor: some further insights. <i>Computers and Chemical Engineering</i> , 2001 , 25, 391-407	4	49
163	Multiobjective Optimization of Cyclone Separators Using Genetic Algorithm. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 4272-4286	3.9	47
162	Multiobjective optimization of a free radical bulk polymerization reactor using genetic algorithm. <i>Macromolecular Theory and Simulations</i> , 1999 , 8, 46-53	1.5	47

161	Design stage optimization of an industrial low-density polyethylene tubular reactor for multiple objectives using NSGA-II and its jumping gene adaptations. <i>Chemical Engineering Science</i> , 2007 , 62, 2346-2365	4.4	46
160	Simultaneous optimization of the performance of flotation circuits and their simplification using the jumping gene adaptations of genetic algorithm. <i>International Journal of Mineral Processing</i> , 2005 , 77, 165-185		42
159	Multi-objective Optimization of an Industrial Crude Distillation Unit Using the Elitist Non-Dominated Sorting Genetic Algorithm. <i>Chemical Engineering Research and Design</i> , 2004 , 82, 611-623	5.5	40
158	Free radical polymerizations associated with the trommsdorff effect under semibatch reactor conditions. I: Modeling. <i>Polymer Engineering and Science</i> , 1995 , 35, 1290-1299	2.3	39
157	Use of genetic algorithms in the optimization of free radical polymerizations exhibiting the trommsdorff effect. <i>Journal of Applied Polymer Science</i> , 1997 , 63, 529-548	2.9	37
156	Multi-objective optimization of an industrial fluidized-bed catalytic cracking unit (FCCU) using two jumping gene adaptations of simulated annealing. <i>Computers and Chemical Engineering</i> , 2007 , 31, 1496-1515	4.5	34
155	Molecular weight distribution and moments for condensation polymerization of monomers having reactivity different from their homologues. <i>Polymer</i> , 1979 , 20, 305-310	3.9	32
154	Multiobjective optimization of the continuous casting process for poly (methyl methacrylate) using adapted genetic algorithm. <i>Journal of Applied Polymer Science</i> , 2000 , 78, 1439-1458	2.9	31
153	Modelling of propylene polymerization in an isothermal slurry reactor. <i>Polymer</i> , 1991 , 32, 2842-2852	3.9	31
152	Viscosity of bulk free radical polymerizing systems under near-isothermal and non-isothermal conditions. <i>Polymer</i> , 2006 , 47, 3028-3035	3.9	30
151	Applications of Genetic Algorithm in Polymer Science and Engineering. <i>Materials and Manufacturing Processes</i> , 2003 , 18, 523-532	4.1	30
150	Multiobjective optimization of an industrial semibatch nylon 6 reactor. <i>Journal of Applied Polymer Science</i> , 1995 , 58, 2357-2371	2.9	30
149	A molecular model for solid-state polymerization of nylon 6. <i>Journal of Applied Polymer Science</i> , 1992 , 45, 507-520	2.9	29
148	Multi-objective optimization of fuel oil blending using the jumping gene adaptation of genetic algorithm. <i>Fuel Processing Technology</i> , 2007 , 88, 51-63	7.2	28
147	Bulk free radical polymerizations of methyl methacrylate under non-isothermal conditions and with intermediate addition of initiator: Experiments and modeling. <i>Polymer</i> , 2005 , 46, 11451-11462	3.9	27
146	Multiobjective Optimal Design of Heat Exchanger Networks Using New Adaptations of the Elitist Nondominated Sorting Genetic Algorithm, NSGA-II. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 3489-3501	3.9	26
145	Simulation of tubular low-density polyethylene. <i>Polymer Engineering and Science</i> , 1985 , 25, 37-47	2.3	26
144	Simulation of an industrial semibatch nylon 6 reactor: optimal parameter estimation. <i>Polymer</i> , 1994 , 35, 3722-3734	3.9	25

143	Simulation of propylene polymerization: an efficient algorithm. <i>Polymer</i> , 1992 , 33, 1477-1485	3.9	25
142	INVITED REVIEW SIMULATION OF STEP GROWTH POLYMERIZATIONS. <i>Chemical Engineering Communications</i> , 1983 , 20, 1-52	2.2	25
141	Multiobjective optimization of an industrial nylon-6 semibatch reactor system using genetic algorithm. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 729-739	2.9	23
140	Simulation of reversible nylon-6,6 polymerization. <i>Polymer</i> , 1981 , 22, 387-390	3.9	23
139	Rate of condensation polymerization for monomers having reactivities different from their polymers. <i>Polymer</i> , 1977 , 18, 851-852	3.9	23
138	Multi-Objective Optimization of Pressure Swing Adsorbers for Air Separation. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 3751-3765	3.9	22
137	On-Line Optimizing Control of Bulk Polymerizations: 1. Development of a Software Sensor. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 2436-2445	3.9	21
136	On-line optimization of free radical bulk polymerization reactors in the presence of equipment failure. <i>Journal of Applied Polymer Science</i> , 1999 , 71, 2101-2120	2.9	21
135	Modelling of resole type phenol formaldehyde polymerization. <i>Polymer</i> , 1981 , 22, 1699-1704	3.9	21
134	On-Line Optimizing Control of Bulk Free Radical Polymerization Reactors under Temporary Loss of Temperature Regulation: Experimental Study on a 1-L Batch Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7530-7539	3.9	20
133	Simultaneous optimization of the performance of flotation circuits and their simplification using the jumping gene adaptations of genetic algorithm-II: More complex problems. <i>International Journal of Mineral Processing</i> , 2006 , 79, 149-166		20
132	Multi-Objective Optimization of Semi-Batch Copolymerization Reactors Using Adaptations of Genetic Algorithm. <i>Macromolecular Theory and Simulations</i> , 2004 , 13, 73-85	1.5	20
131	Optimization of Venturi Scrubbers Using Genetic Algorithm. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 2988-3002	3.9	20
130	Free radical polymerizations associated with the trommsdorff effect under semibatch reactor conditions. II: Experimental responses to step changes in temperature. <i>Polymer Engineering and Science</i> , 1996 , 36, 311-321	2.3	20
129	MODELING OF HYDROLYTIC POLYMERIZATION IN A SEMIBATCH NYLON 6 REACTOR. <i>Chemical Engineering Communications</i> , 1992 , 113, 63-89	2.2	20
128	SIMULATION AND DESIGN OF NYLON 6 REACTORS. <i>Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics</i> , 1986 , 26, 183-247		20
127	Use of Agitator Power as a Soft Sensor for Bulk Free-Radical Polymerization of Methyl Methacrylate in Batch Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 4243-4255	3.9	19
126	Optimal parameter estimation for methyl methacrylate polymerization. <i>Polymer</i> , 1991 , 32, 3233-3243	3.9	19

125	Optimal temperature profiles for methylmethacrylate polymerization in the presence of end point constraints. <i>Polymer Engineering and Science</i> , 1991 , 31, 1708-1715	2.3	19
124	Multiobjective Optimization of a Fixed Bed Maleic Anhydride Reactor Using an Improved Biomimetic Adaptation of NSGA-II. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 3279-3294 ^{3,9}		18
123	Biomimicking Altruistic Behavior of Honey Bees in Multi-objective Genetic Algorithm. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 9671-9685	3.9	18
122	Applications of the Non-Dominated Sorting Genetic Algorithm (NSGA) in Chemical Reaction Engineering. <i>International Journal of Chemical Reactor Engineering</i> , 2003 , 1,	1.2	18
121	Molecular model for solid-state polymerization of nylon 6. II. An improved model. <i>Journal of Applied Polymer Science</i> , 1994 , 53, 85-103	2.9	18
120	Molecular weight distributions for reversible nylon-6 polymerizations in batch reactors. <i>Polymer</i> , 1981 , 22, 481-487	3.9	18
119	Modelling of reversible poly(ethylene terephthalate) reactors. <i>Journal of Applied Polymer Science</i> , 1982 , 27, 4421-4438	2.9	18
118	Modeling and simulation of fixed bed adsorbers (FBAs) for multi-component gaseous separations. <i>Computers and Chemical Engineering</i> , 2007 , 31, 1282-1295	4	17
117	On-line optimizing control of bulk polymerization of methyl methacrylate: Some experimental results for heater failure. <i>Journal of Applied Polymer Science</i> , 2002 , 85, 2350-2360	2.9	17
116	Multiobjective dynamic optimization of a nonvaporizing nylon 6 batch reactor. <i>Polymer Engineering and Science</i> , 1994 , 34, 1161-1172	2.3	17
115	Simulation of molecular weight distribution and cyclic oligomer formation in the polymerization of nylon 6. <i>Journal of Applied Polymer Science</i> , 1981 , 26, 2153-2163	2.9	17
114	Multiobjective optimization of the dynamic operation of an industrial steam reformer using the jumping gene adaptations of simulated annealing. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2006 , 1, 21-31	1.3	16
113	Free-radical polymerizations associated with the trommsdorff effect under semibatch reactor conditions. III. Experimental responses to step changes in initiator concentration. <i>Journal of Applied Polymer Science</i> , 1996 , 59, 749-758	2.9	16
112	Parametric sensitivity of chain polymerization reactors exhibiting the trommsdorff effect. <i>Polymer Engineering and Science</i> , 1989 , 29, 1246-1258	2.3	16
111	Optimization of nonvaporizing nylon 6 reactors with stopping conditions and end-point constraints. <i>Polymer Engineering and Science</i> , 1986 , 26, 1033-1044	2.3	16
110	Simulation of an industrial nylon 6 tubular reactor. <i>Journal of Applied Polymer Science</i> , 1987 , 33, 933-954 ^{2,9}		16
109	Simulation of three-stage nylon 6 reactors with intermediate mass transfer at finite rates. <i>Journal of Applied Polymer Science</i> , 1982 , 27, 3089-3101	2.9	16
108	Molecular weight distribution of polyethylene terephthalate in homogeneous, continuous-flow-stirred tank reactors. <i>Polymer Engineering and Science</i> , 1982 , 22, 314-323	2.3	16

107	Modeling of Higher Cyclic Oligomer Formation in Nylon 6 Polymerization. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 1202-1210	3.9	15
106	MO optimization of phthalic anhydride industrial catalytic reactors using guided GA with the adapted jumping gene operator. <i>Chemical Engineering Research and Design</i> , 2008 , 86, 959-976	5.5	15
105	Steady state simulation of continuous-flow stirred-tank slurry propylene polymerization reactors. <i>Polymer Engineering and Science</i> , 1992 , 32, 732-742	2.3	15
104	Optimization of the transesterification stage of polyethylene terephthalate reactors. <i>Polymer Engineering and Science</i> , 1984 , 24, 185-193	2.3	15
103	An experimental study on bulk and solution polymerization of methyl methacrylate with responses to step changes in temperature. <i>Chemical Engineering Journal</i> , 1998 , 70, 25-35	14.7	14
102	Simulation and optimization of the continuous tower process for styrene polymerization. <i>Journal of Applied Polymer Science</i> , 2004 , 94, 775-788	2.9	14
101	Modelling of intramolecular reactions in the step-growth polymerization of multifunctional monomers. <i>Polymer</i> , 1986 , 27, 583-591	3.9	14
100	Modelling of Resole-type Phenol Formaldehyde Polymerisation in Homogeneous, Continuous-Flow, Stirred-Tank Reactors. <i>British Polymer Journal</i> , 1980 , 12, 121-129		14
99	Multiobjective optimization of an industrial nylon-6 semi batch reactor using the a-jumping gene adaptations of genetic algorithm and simulated annealing. <i>Polymer Engineering and Science</i> , 2008 , 48, 2198-2215	2.3	13
98	Software sensor for the bulk polymerization of systems exhibiting the trommsdorff effect using viscosity measurements. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 2309-2326	2.9	13
97	Optimal temperature profiles for nylon 6 polymerization in plug-flow reactors. <i>Journal of Applied Polymer Science</i> , 1983 , 28, 2261-2279	2.9	13
96	Condensation polymerization of ARB type monomers in CSTRs wherein the monomer is R times more reactive than other homologues. <i>Polymer</i> , 1980 , 21, 1323-1326	3.9	13
95	Optimization of a tubular nylon 6 reactor with radial gradients. <i>Polymer Engineering and Science</i> , 1991 , 31, 596-606	2.3	12
94	Dynamic simulation of propylene polymerization in continuous flow stirred tank reactors. <i>Polymer Engineering and Science</i> , 1993 , 33, 368-374	2.3	12
93	Reversible polycondensation characterized by unequal reactivities of functional groups. <i>Polymer</i> , 1982 , 23, 222-228	3.9	12
92	Free-radical polymerizations associated with the Trommsdorff effect under semibatch reactor conditions. IV. On-line inferential-state estimation. <i>Journal of Applied Polymer Science</i> , 1997 , 64, 1861-1877	2.9	11
91	Biomimetic Adaptations of GA and SA for the Robust MO Optimization of an Industrial Nylon-6 Reactor. <i>Materials and Manufacturing Processes</i> , 2008 , 24, 38-46	4.1	11
90	Dynamic viscoelastic properties of free radical bulk polymerizing systems under near-isothermal and non-isothermal conditions. <i>Rheologica Acta</i> , 2007 , 46, 455-468	2.3	11

89	An experimental study on on-line optimizing control of free radical bulk polymerization in a rheometer reactor assembly under conditions of power failure. <i>Chemical Engineering Science</i> , 2007 , 62, 2790-2802	4.4	11
88	Solution of final stages of polyethylene terephthalate reactors using orthogonal collocation technique. <i>Polymer Engineering and Science</i> , 1984 , 24, 194-204	2.3	11
87	Molecular weight distributions in novolac type phenol-formaldehyde polymerizations. <i>Polymer</i> , 1982 , 23, 215-221	3.9	11
86	Computational scheme for the calculation of molecular weight distributions for nylon 6 polymerization in homogeneous, continuous-flow stirred-tank reactors with continuous removal of water. <i>Polymer Engineering and Science</i> , 1982 , 22, 849-856	2.3	11
85	Biomimetic Adaptation of the Evolutionary Algorithm, NSGA-II-aJG, Using the Biogenetic Law of Embryology for Intelligent Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 8054-8067	2.9	10
84	Vapor grown carbon fibers from pyrolysis of hydrocarbons: Modeling of filament growth and poisoning. <i>Journal of Analytical and Applied Pyrolysis</i> , 1993 , 26, 131-144	6	10
83	Modelling of a semibatch polypropylene slurry reactor. <i>Polymer</i> , 1993 , 34, 4417-4426	3.9	10
82	Optimization of the polycondensation stage of poly(ethylene terephthalate) reactors. <i>Journal of Applied Polymer Science</i> , 1984 , 29, 1045-1061	2.9	10
81	Analysis of wiped film reactors using the orthogonal collocation technique. <i>Journal of Applied Polymer Science</i> , 1984 , 29, 3217-3230	2.9	10
80	Condensation polymerizations in ideal continuous-flow-stirred tank reactors of monomers violating the equal reactivity hypothesis. <i>Journal of Applied Polymer Science</i> , 1980 , 25, 1049-1058	2.9	10
79	Mass transfer effects in polycondensation reactors wherein functional groups are not equally reactive. <i>Journal of Applied Polymer Science</i> , 1982 , 27, 1217-1231	2.9	10
78	Modelling of reversible novolac type phenol-formaldehyde polymerization. <i>Polymer</i> , 1982 , 23, 1929-1936	3.9	10
77	Simulation of reversible polycondensations with monomer having reactivity different from that of higher homologs. <i>Journal of Polymer Science, Polymer Physics Edition</i> , 1982 , 20, 933-945		10
76	Vapor grown carbon fibers from benzene pyrolysis: Filament length distributions. <i>Carbon</i> , 1996 , 34, 127-134	10.4	9
75	Vapor-grown carbon fibers from benzene pyrolysis. <i>Carbon</i> , 1995 , 33, 253-258	10.4	9
74	Parametric sensitivity in tubular polymerization reactors. <i>Chemical Engineering Science</i> , 1987 , 42, 2385-2394	2.3	9
73	Simulation of reversible AA + B?B? polycondensations in wiped film reactors. <i>Journal of Applied Polymer Science</i> , 1983 , 28, 1063-1076	2.9	9
72	Simulation of nylon 6 polymerization in tubular reactors with recycle. <i>Journal of Applied Polymer Science</i> , 1983 , 28, 1625-1640	2.9	9

71	Simulation of reversible nylon-66 polymerization in homogeneous continuous-flow stirred tank reactors. <i>Journal of Applied Polymer Science</i> , 1982 , 27, 1759-1769	2.9	9
70	Simulation and Optimization of an Industrial Nylon 6 Reactor: A Review. <i>Polymer-Plastics Technology and Engineering</i> , 1998 , 37, 201-239		8
69	MODELING OF AN INDUSTRIAL WIPED FILM POLY(ETHYLENE TEREPHTHALATE) REACTOR. <i>Polymer-Plastics Technology and Engineering</i> , 2001 , 9, 71-99		8
68	Modelling of an industrial autothermal nylon-6 flow reactor. <i>Polymer</i> , 1993 , 34, 1716-1728	3.9	8
67	Molecular weight distributions in novolactype phenol-formaldehyde polymerization. <i>Polymer</i> , 1983 , 24, 1180-1187	3.9	8
66	Optimization of the polycondensation step of polyethylene terephthalate formation with continuous removal of condensation products. <i>Polymer Engineering and Science</i> , 1984 , 24, 1205-1214	2.3	8
65	Optimization of nonvaporizing nylon 6 reactors with stopping conditions. <i>Journal of Applied Polymer Science</i> , 1985 , 30, 4529-4550	2.9	8
64	Simulation and multi-objective optimization of a fixed bed catalytic reactor to produce hydrogen using ethanol steam reforming. <i>International Journal of Energy Research</i> , 2019 , 43, 4580-4591	4.5	7
63	Modeling and simulation of an industrial slurry phase ethylene polymerization reactor: effect of reactor operating variables. <i>Iranian Polymer Journal (English Edition)</i> , 2020 , 29, 811-825	2.3	7
62	A general kinetic model for epoxy polymerization. <i>Journal of Applied Polymer Science</i> , 1998 , 70, 1859-1876	2.9	7
61	Polymerizations in the Presence of Vaporization: Experimental Results on Nylon-6. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 9061-9071	3.9	7
60	Electropolymerization of 9-vinylanthracene: kinetic study using thin-layer spectroelectrochemistry. <i>Polymer</i> , 1988 , 29, 1329-1334	3.9	7
59	Molecular weight distribution in novolac-type polymerization in homogeneous, continuous-flow stirred tank reactors. <i>Polymer Engineering and Science</i> , 1981 , 21, 1218-1227	2.3	7
58	Modelling of the Riser Reactor in a Resid Fluidised-bed Catalytic Cracking Unit Using a Multigrain Model for an Active Matrix-zeolite Catalyst. <i>Indian Chemical Engineer</i> , 2015 , 57, 115-135	1	6
57	Multiobjective Optimization Using Genetic Algorithm. <i>Advances in Chemical Engineering</i> , 2013 , 43, 205-245	4.5	6
56	Modeling the Cytotoxicity of Cisplatin. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 12872-12880	3.9	6
55	Simulation of non-vaporizing tubular nylon-6 reactors with radial gradients: finite-difference computations. <i>Polymer</i> , 1989 , 30, 1918-1930	3.9	6
54	Simulation of AA + B?B? type reversible polymerizations with mass transfer of condensation product. <i>Polymer</i> , 1982 , 23, 1367-1371	3.9	6

53	A multigrain catalyst model for unifunctional multicomponent catalysts. <i>Chemical Engineering Research and Design</i> , 2010 , 88, 455-464	5.5	5
52	Viscoelastic behavior of polymerizing systems. <i>Rheologica Acta</i> , 1999 , 38, 84-89	2.3	5
51	Parameter Estimation for Solution Polymerization of Methylmethacrylate. <i>Journal of Polymer Engineering</i> , 1993 , 12,	1.4	5
50	Simulation of cyclics and degradation product formation in polyethylene terephthalate reactors. <i>Polymer</i> , 1983 , 24, 449-456	3.9	5
49	Optimization of nylon 6 reactors with end-point constraints. <i>Journal of Applied Polymer Science</i> , 1984 , 29, 2177-2194	2.9	5
48	Modelling of condensation polymerization of novolac-type phenolformaldehyde in homogeneous, continuous-flow, stirred-tank reactors. <i>Journal of Applied Polymer Science</i> , 1982 , 27, 3393-3405	2.9	5
47	Kinetic Modeling and Reactor Simulation and Optimization of Industrially Important Polymerization Processes: a Perspective. <i>International Journal of Chemical Reactor Engineering</i> , 2011 , 9,	1.2	4
46	Modeling of poly(amic acid) and polyimide reactors. <i>Journal of Applied Polymer Science</i> , 1997 , 66, 2059-2079	2.9	4
45	Vapor grown carbon fibers: Modeling of filament length distributions. <i>Journal of Analytical and Applied Pyrolysis</i> , 1994 , 28, 255-270	6	4
44	Modeling of melamine formaldehyde polymerization. II. Development of a simpler model. <i>Journal of Applied Polymer Science</i> , 1986 , 31, 2805-2827	2.9	4
43	Effect of segmental diffusion on irreversible, step growth polymerizations of ARB monomers. <i>Polymer Engineering and Science</i> , 1987 , 27, 753-763	2.3	4
42	Comments on "Simplified analysis of the performance of wiped-film polycondensation reactors". <i>Industrial & Engineering Chemistry Fundamentals</i> , 1983 , 22, 268-268		4
41	Simulation of ARB type reversible step growth polymerization in semibatch reactors. <i>Journal of Applied Polymer Science</i> , 1985 , 30, 445-460	2.9	4
40	Fluid phase behavior of ethylene glycol+water mixtures (at operating conditions of the first-stage esterification reactors for PET synthesis) by molecular simulations and activity coefficient (γ) method. <i>Journal of Molecular Liquids</i> , 2014 , 199, 565-571	6	3
39	Incipient stable bubble formation during bulk polymerization of methyl methacrylate under near-isothermal conditions. II. Use of an anchor agitator. <i>Polymer Engineering and Science</i> , 2009 , 49, 2309-2314	2.3	3
38	Multi-Objective Genetic Algorithm and Simulated Annealing with the Jumping Gene Adaptations. <i>Advances in Process Systems Engineering</i> , 2008 , 91-129		3
37	Viscosity of moderately concentrated solutions of polymethyl-methacrylate in methyl-methacrylate. <i>Journal of Applied Polymer Science</i> , 2008 , 109, 2139-2144	2.9	3
36	Some practical aspects of designing a laboratory scale batch polymerization reactor without gas entrapment and interfaced with virtual instrumentation. <i>ISA Transactions</i> , 2006 , 45, 259-69	5.5	3

35	Simulation of poly(phenylene oxide) reactors. <i>Polymer</i> , 1996 , 37, 1243-1256	3.9	3
34	Multifunctional step growth polymerizations in cascades of isothermal, continuous flow, stirred tank reactors. <i>Polymer Engineering and Science</i> , 1985 , 25, 332-338	2.3	3
33	Forced oscillations in continuous flow stirred tank reactors with nonlinear step growth polymerization. <i>Journal of Applied Polymer Science</i> , 1985 , 30, 557-569	2.9	3
32	Condensation polymerisations with unequal reactivity in segregated continuous-flow stirred tank reactors. <i>British Polymer Journal</i> , 1981 , 13, 76-81		3
31	Slurry-phase ethylene polymerization processes: a review on multiscale modeling and simulations. <i>Reviews in Chemical Engineering</i> , 2019 ,	5	3
30	Applications of Genetic Algorithms in Chemical Engineering II: Case Studies 2014 , 61-87		3
29	Optimization of styrene acrylonitrile random bulk copolymerization reactors. <i>Polymer Engineering and Science</i> , 2015 , 55, 2377-2387	2.3	2
28	Incipient bubble formation during bulk polymerization of methyl methacrylate under near-isothermal conditions using a ribbon agitator. <i>Polymer Engineering and Science</i> , 2009 , 49, 930-936	2.3	2
27	Optimization of the First Stage Continuous Reactor-Sequence in Polyester Manufacture From Purified Pterephthalic Acid. <i>Journal of Polymer Engineering</i> , 2000 , 20,	1.4	2
26	Optimization of an industrial semibatch nylon 6 reactor. <i>Journal of Applied Polymer Science</i> , 1995 , 57, 209-218	2.9	2
25	Modeling of poly(phenylene oxide) reactors. <i>Journal of Applied Polymer Science</i> , 1995 , 58, 1877-1890	2.9	2
24	NYLON 6 POLYMERIZATION IN TUBULAR REACTORS: ORTHOGONAL COLLOCATION RESULTS. <i>Journal of Polymer Engineering</i> , 1990 , 9,	1.4	2
23	Effect of shear rate on the rate of polymerization of styrene. <i>Polymer</i> , 1983 , 24, 443-448	3.9	2
22	Multi-objective optimization of an industrial slurry phase ethylene polymerization reactor. <i>International Journal of Chemical Reactor Engineering</i> , 2021 ,	1.2	2
21	Nylon Reactors. <i>The Plenum Chemical Engineering Series</i> , 1987 , 187-239		2
20	Multi-Objective Genetic Algorithm and Simulated Annealing with the Jumping Gene Adaptations. <i>Advances in Process Systems Engineering</i> , 2017 , 93-133		1
19	Modeling the continuous entrapment and growth of gas bubbles during bulk polymerization of methyl methacrylate. <i>Polymer Engineering and Science</i> , 2011 , 51, 1942-1956	2.3	1
18	Multi-objective Optimization: Bio-mimetic Adaptations of Genetic Algorithm. <i>Indian Chemical Engineer</i> , 2012 , 54, 1-11	1	1

17	Multi-objective optimization of venturi scrubbers using a three-dimensional model for collection efficiency. <i>Journal of Chemical Technology and Biotechnology</i> , 2003 , 78, 308-313	3.5	1
16	Dynamic optimization of an industrial semi-batch nylon 6 reactor with end point constraints and stopping conditions. <i>Journal of Applied Polymer Science</i> , 1996 , 62, 1219-1230	2.9	1
15	Polyester Reactors. <i>The Plenum Chemical Engineering Series</i> , 1987 , 241-318		1
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