Santosh K Gupta

List of Publications by Year in Descending Order

178 papers	3,366 citations	29 h-index	48 g-index
182 ext. papers	3,603 ext. citations	3.3 avg, IF	5.06 L-index

#	Paper	IF	Citations
178	Multi-objective optimization of an industrial slurry phase ethylene polymerization reactor. *International Journal of Chemical Reactor Engineering*, **2021**,	1.2	2
177	Preface: Special issue dedicated to the International Conference Advances in Chemical Engineering-2020 (AdChE-2020) UPES, Dehradun, India. *International Journal of Chemical Reactor Engineering*, **2021**, 19, 653-654	1.2	
176	Modeling and simulation of an industrial slurry phase ethylene polymerization reactor: effect of reactor operating variables. *Iranian Polymer Journal (English Edition)*, **2020**, 29, 811-825	2.3	7
175	Simulation and multi-objective optimization of a fixed bed catalytic reactor to produce hydrogen using ethanol steam reforming. *International Journal of Energy Research*, **2019**, 43, 4580-4591	4.5	7
174	Slurry-phase ethylene polymerization processes: a review on multiscale modeling and simulations. *Reviews in Chemical Engineering*, **2019**,	5	3
173	Multi-Objective Genetic Algorithm and Simulated Annealing with the Jumping Gene Adaptations. *Advances in Process Systems Engineering*, **2017**, 93-133		1
172	Seventeen-lump model for the simulation of an industrial fluid catalytic cracking unit (FCCU). *Sadhana - Academy Proceedings in Engineering Sciences*, **2017**, 42, 1965-1978	1	
171	Modelling of the Riser Reactor in a Resid Fluidised-bed Catalytic Cracking Unit Using a Multigrain Model for an Active Matrix-zeolite Catalyst. *Indian Chemical Engineer*, **2015**, 57, 115-135	1	6
170	Optimization of styrene acrylonitrile random bulk copolymerization reactors. *Polymer Engineering and Science*, **2015**, 55, 2377-2387	2.3	2
169	Modeling of diffusional limitations in styrene acrylonitrile random bulk copolymerization. *Polymer Engineering and Science*, **2015**, 55, 2098-2110	2.3	0
168	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 (method. *Journal of Molecular Liquids*, **2014**, 199, 565-571	6	3
167	Applications of Genetic Algorithms in Chemical Engineering II: Case Studies **2014**, 61-87		3
166	Applications of Genetic Algorithms in Chemical Engineering I: Methodology **2014**, 39-59		
165	Multiobjective Optimization Using Genetic Algorithm. *Advances in Chemical Engineering*, **2013**, 43, 205-245	4.56	6
164	Multiobjective Optimization of a Fixed Bed Maleic Anhydride Reactor Using an Improved Biomimetic Adaptation of NSGA-II. *Industrial & Engineering Chemistry Research*, **2012**, 51, 3279-3294	3.9	18
163	Multi-objective Optimization: Bio-mimetic Adaptations of Genetic Algorithm. *Indian Chemical Engineer*, **2012**, 54, 1-11	1	1
162	Modeling the Cytotoxicity of Cisplatin. *Industrial & Engineering Chemistry Research*, **2011**, 50, 12872-12880	3.9	6

161	Modeling the continuous entrapment and growth of gas bubbles during bulk polymerization of methyl methacrylate. *Polymer Engineering and Science*, **2011**, 51, 1942-1956	2.3	1
160	Kinetic Modeling and Reactor Simulation and Optimization of Industrially Important Polymerization Processes: a Perspective. *International Journal of Chemical Reactor Engineering*, **2011**, 9,	1.2	4
159	A multigrain catalyst model for unifunctional multicomponent catalysts. *Chemical Engineering Research and Design*, **2010**, 88, 455-464	5.5	5
158	Incipient bubble formation during bulk polymerization of methyl methacrylate under near-isothermal conditions using a ribbon agitator. *Polymer Engineering and Science*, **2009**, 49, 930-936	2.3	2
157	Incipient stable bubble formation during bulk polymerization of methyl methacrylate under near-isothermal conditions. II. Use of an anchor agitator. *Polymer Engineering and Science*, **2009**, 49, 2309-2314	2.3	3
156	Biomimetic Adaptation of the Evolutionary Algorithm, NSGA-II-aJG, Using the Biogenetic Law of Embryology for Intelligent Optimization. *Industrial & Engineering Chemistry Research*, **2009**, 48, 8054-8067	3.9	10
155	Biomimicking Altruistic Behavior of Honey Bees in Multi-objective Genetic Algorithm. *Industrial & Engineering Chemistry Research*, **2009**, 48, 9671-9685	3.9	18
154	Multiobjective Optimal Design of Heat Exchanger Networks Using New Adaptations of the Elitist Nondominated Sorting Genetic Algorithm, NSGA-II. *Industrial & Engineering Chemistry Research* , **2008**, 47, 3489-3501	3.9	26
153	Biomimetic Adaptations of GA and SA for the Robust MO Optimization of an Industrial Nylon-6 Reactor. *Materials and Manufacturing Processes*, **2008**, 24, 38-46	4.1	11
152	Polymerizations in the Presence of Vaporization: Experimental Results on Nylon-6. *Industrial & Engineering Chemistry Research*, **2008**, 47, 9061-9071	3.9	7
151	Multi-Objective Genetic Algorithm and Simulated Annealing with the Jumping Gene Adaptations. *Advances in Process Systems Engineering*, **2008**, 91-129		3
150	Multiobjective optimization of an industrial nylon-6 semi batch reactor using the a-jumping gene adaptations of genetic algorithm and simulated annealing. *Polymer Engineering and Science*, **2008**, 48, 2198-2215	2.3	13
149	Viscosity of moderately concentrated solutions of polymethyl-methacrylate in methyl-methacrylate. *Journal of Applied Polymer Science*, **2008**, 109, 2139-2144	2.9	3
148	Jumping gene adaptations of NSGA-II and their use in the multi-objective optimal design of shell and tube heat exchangers. *Chemical Engineering Research and Design*, **2008**, 86, 123-139	5.5	55
147	MO optimization of phthalic anhydride industrial catalytic reactors using guided GA with the adapted jumping gene operator. *Chemical Engineering Research and Design*, **2008**, 86, 959-976	5.5	15
146	Multi-Objective Optimization of Pressure Swing Adsorbers for Air Separation. *Industrial & Engineering Chemistry Research*, **2007**, 46, 3751-3765	3.9	22
145	Modeling and simulation of fixed bed adsorbers (FBAs) for multi-component gaseous separations. *Computers and Chemical Engineering*, **2007**, 31, 1282-1295	4	17
144	Multi-objective optimization of an industrial fluidized-bed catalytic cracking unit (FCCU) using two jumping gene adaptations of simulated annealing. *Computers and Chemical Engineering*, **2007**, 31, 1496-1515	4	34

143	Design stage optimization of an industrial low-density polyethylene tubular reactor for multiple objectives using NSGA-II and its jumping gene adaptations. *Chemical Engineering Science*, **2007**, 62, 2346-2365	4.4	46
142	Multi-objective optimization of fuel oil blending using the jumping gene adaptation of genetic algorithm. *Fuel Processing Technology*, **2007**, 88, 51-63	7.2	28
141	Dynamic viscoelastic properties of free radical bulk polymerizing systems under near-isothermal and non-isothermal conditions. *Rheologica Acta*, **2007**, 46, 455-468	2.3	11
140	An experimental study on on-line optimizing control of free radical bulk polymerization in a rheometer–reactor assembly under conditions of power failure. *Chemical Engineering Science*, **2007**, 62, 2790-2802	4.4	11
139	Multi-objective Optimization of the Operation of an Industrial Low-Density Polyethylene Tubular Reactor Using Genetic Algorithm and Its Jumping Gene Adaptations. *Industrial & Engineering Chemistry Research*, **2006**, 45, 3182-3199	3.9	65
138	On-Line Optimizing Control of Bulk Free Radical Polymerization Reactors under Temporary Loss of Temperature Regulation: Experimental Study on a 1-L Batch Reactor. *Industrial & Engineering Chemistry Research*, **2006**, 45, 7530-7539	3.9	20
137	Use of Agitator Power as a Soft Sensor for Bulk Free-Radical Polymerization of Methyl Methacrylate in Batch Reactors. *Industrial & Engineering Chemistry Research*, **2006**, 45, 4243-4255	3.9	19
136	Simultaneous optimization of the performance of flotation circuits and their simplification using the jumping gene adaptations of genetic algorithm-II: More complex problems. *International Journal of Mineral Processing*, **2006**, 79, 149-166		20
135	Viscosity of bulk free radical polymerizing systems under near-isothermal and non-isothermal conditions. *Polymer*, **2006**, 47, 3028-3035	3.9	30
134	Some practical aspects of designing a laboratory scale batch polymerization reactor without gas entrapment and interfaced with virtual instrumentation. *ISA Transactions*, **2006**, 45, 259-69	5.5	3
133	Multiobjective optimization of the dynamic operation of an industrial steam reformer using the jumping gene adaptations of simulated annealing. *Asia-Pacific Journal of Chemical Engineering*, **2006**, 1, 21-31	1.3	16
132	Multi-objective Optimal Synthesis and Design of Froth Flotation Circuits for Mineral Processing, Using the Jumping Gene Adaptation of Genetic Algorithm. *Industrial & Engineering Chemistry Research*, **2005**, 44, 2621-2633	3.9	53
131	Simultaneous optimization of the performance of flotation circuits and their simplification using the jumping gene adaptations of genetic algorithm. *International Journal of Mineral Processing*, **2005**, 77, 165-185		42
130	Multi-objective optimization of reverse osmosis desalination units using different adaptations of the non-dominated sorting genetic algorithm (NSGA). *Computers and Chemical Engineering*, **2005**, 29, 1977-1995	4	96
129	Bulk free radical polymerizations of methyl methacrylateunder non-isothermal conditions and with intermediate additionof initiator: Experiments and modeling. *Polymer*, **2005**, 46, 11451-11462	3.9	27
128	Multi-objective Optimization of an Industrial Crude Distillation Unit Using the Elitist Non-Dominated Sorting Genetic Algorithm. *Chemical Engineering Research and Design*, **2004**, 82, 611-623	5.5	40
127	Simulation and optimization of the continuous tower process for styrene polymerization. *Journal of Applied Polymer Science*, **2004**, 94, 775-788	2.9	14
126	Multi-Objective Optimization of Semi-Batch Copolymerization Reactors Using Adaptations of Genetic Algorithm. *Macromolecular Theory and Simulations*, **2004**, 13, 73-85	1.5	20

125	Multi-objective optimization of venturi scrubbers using a three-dimensional model for collection efficiency. *Journal of Chemical Technology and Biotechnology*, **2003**, 78, 308-313	3.5	1
124	Multi-objective optimization of an industrial fluidized-bed catalytic cracking unit (FCCU) using genetic algorithm (GA) with the jumping genes operator. *Computers and Chemical Engineering*, **2003**, 27, 1785-1800	4	165
123	Dynamic Model of an Industrial Steam Reformer and Its Use for Multiobjective Optimization. *Industrial & Engineering Chemistry Research*, **2003**, 42, 4028-4042	3.9	52
122	Applications of Genetic Algorithm in Polymer Science and Engineering. *Materials and Manufacturing Processes*, **2003**, 18, 523-532	4.1	30
121	Applications of the Non-Dominated Sorting Genetic Algorithm (NSGA) in Chemical Reaction Engineering. *International Journal of Chemical Reactor Engineering*, **2003**, 1,	1.2	18
120	On-line optimizing control of bulk polymerization of methyl methacrylate: Some experimental results for heater failure. *Journal of Applied Polymer Science*, **2002**, 85, 2350-2360	2.9	17
119	Optimization of Venturi Scrubbers Using Genetic Algorithm. *Industrial & Engineering Chemistry Research*, **2002**, 41, 2988-3002	3.9	20
118	Multiobjective Optimization of Industrial FCC Units Using Elitist Nondominated Sorting Genetic Algorithm. *Industrial & Engineering Chemistry Research*, **2002**, 41, 4765-4776	3.9	70
117	Multiobjective optimization of an industrial wiped film poly(ethylene terephthalate) reactor: some further insights. *Computers and Chemical Engineering*, **2001**, 25, 391-407	4	49
116	Multi-objective optimization of industrial hydrogen plants. *Chemical Engineering Science*, **2001**, 56, 999-1010	4.1	96
115	MODELING OF AN INDUSTRIAL WIPED FILM POLY(ETHYLENE TEREPHTHALATE) REACTOR. *Polymer-Plastics Technology and Engineering*, **2001**, 9, 71-99		8
114	Multiobjective optimization of the continuous casting process for poly (methyl methacrylate) using adapted genetic algorithm. *Journal of Applied Polymer Science*, **2000**, 78, 1439-1458	2.9	31
113	Multiobjective optimization of an industrial wiped-film pet reactor. *AICHE Journal*, **2000**, 46, 1046-1058	3.6	66
112	Multi-objective optimization of membrane separation modules using genetic algorithm. *Journal of Membrane Science*, **2000**, 176, 177-196	9.6	58
111	Optimization of the First Stage Continuous Reactor-Sequence in Polyester Manufacture From Purified Perephthalic Acid. *Journal of Polymer Engineering*, **2000**, 20,	1.4	2
110	APPLICATIONS OF MULTIOBJECTIVE OPTIMIZATION IN CHEMICAL ENGINEERING. *Reviews in Chemical Engineering*, **2000**, 16, 1-54	5	238
109	Multiobjective Optimization of Steam Reformer Performance Using Genetic Algorithm. *Industrial & Engineering Chemistry Research*, **2000**, 39, 706-717	3.9	110
108	Multiobjective Optimization of Cyclone Separators Using Genetic Algorithm. *Industrial & Engineering Chemistry Research*, **2000**, 39, 4272-4286	3.9	47

107	Viscoelastic behavior of polymerizing systems. *Rheologica Acta*, **1999**, 38, 84-89	2.3	5
106	On-line optimization of free radical bulk polymerization reactors in the presence of equipment failure. *Journal of Applied Polymer Science*, **1999**, 71, 2101-2120	2.9	21
105	Study of parametric sensitivity in an autothermal nylon 6 reactor. *Journal of Applied Polymer Science* , **1999**, 73, 333-343	2.9	
104	Multiobjective optimization of an industrial nylon-6 semibatch reactor system using genetic algorithm. *Journal of Applied Polymer Science*, **1999**, 73, 729-739	2.9	23
103	Software sensor for the bulk polymerization of systems exhibiting the trommsdorff effect using viscosity measurements. *Journal of Applied Polymer Science*, **1999**, 73, 2309-2326	2.9	13
102	Multiobjective optimization of a free radical bulk polymerization reactor using genetic algorithm. *Macromolecular Theory and Simulations*, **1999**, 8, 46-53	1.5	47
101	Multiobjective dynamic optimization of an industrial nylon 6 semibatch reactor using genetic algorithm. *Journal of Applied Polymer Science*, **1998**, 69, 69-87	2.9	101
100	A general kinetic model for epoxy polymerization. *Journal of Applied Polymer Science*, **1998**, 70, 1859-1876	2.9	7
99	An experimental study on bulk and solution polymerization of methyl methacrylate with responses to step changes in temperature. *Chemical Engineering Journal*, **1998**, 70, 25-35	14.7	14
98	Simulation and Optimization of an Industrial Nylon 6 Reactor: A Review. *Polymer-Plastics Technology and Engineering*, **1998**, 37, 201-239		8
97	On-Line Optimizing Control of Bulk Polymerizations: 1. Development of a Software Sensor. *Industrial & Engineering Chemistry Research*, **1998**, 37, 2436-2445	3.9	21
96	Modeling of Higher Cyclic Oligomer Formation in Nylon 6 Polymerization. *Industrial & Engineering Chemistry Research*, **1997**, 36, 1202-1210	3.9	15
95	Use of genetic algorithms in the optimization of free radical polymerizations exhibiting the trommsdorff effect. *Journal of Applied Polymer Science*, **1997**, 63, 529-548	2.9	37
94	Free-radical polymerizations associated with the Trommsdorff effect under semibatch reactor conditions. IV. On-line inferential-state estimation. *Journal of Applied Polymer Science*, **1997**, 64, 1861-1877	2.9	11
93	Modeling of poly(amic acid) and polyimide reactors. *Journal of Applied Polymer Science*, **1997**, 66, 2059-2079	2.9	4
92	Free-radical polymerizations associated with the trommsdorff effect under semibatch reactor conditions. III. Experimental responses to step changes in initiator concentration. *Journal of Applied Polymer Science*, **1996**, 59, 749-758	2.9	16
91	Dynamic optimization of an industrial semi-batch nylon 6 reactor with end point constraints and stopping conditions. *Journal of Applied Polymer Science*, **1996**, 62, 1219-1230	2.9	1
90	Vapor grown carbon fibers from benzene pyrolysis: Filament length distributions. *Carbon*, **1996**, 34, 127-134	1.4	9

89	Simulation of poly(phenylene oxide) reactors. *Polymer*, **1996**, 37, 1243-1256	3.9	3
88	Free radical polymerizations associated with the trommsdorff effect under semibatch reactor conditions. II: Experimental responses to step changes in temperature. *Polymer Engineering and Science*, **1996**, 36, 311-321	2.3	20
87	Semianalytical solution of isothermal nylon-6 polymerization in batch reactors. *Polymer Engineering and Science*, **1995**, 35, 1231-1240	2.3	
86	Free radical polymerizations associated with the trommsdorff effect under semibatch reactor conditions. I: Modeling. *Polymer Engineering and Science*, **1995**, 35, 1290-1299	2.3	39
85	A computationally efficient technique for the solution of non-isothermal nylon-6 polymerization in batch reactors. *Macromolecular Theory and Simulations*, **1995**, 4, 821-838	1.5	
84	Optimization of an industrial semibatch nylon 6 reactor. *Journal of Applied Polymer Science*, **1995**, 57, 209-218	2.9	2
83	Modeling of poly(phenylene oxide) reactors. *Journal of Applied Polymer Science*, **1995**, 58, 1877-1890	2.9	2
82	Multiobjective optimization of an industrial semibatch nylon 6 reactor. *Journal of Applied Polymer Science*, **1995**, 58, 2357-2371	2.9	30
81	Vapor-grown carbon fibers from benzene pyrolysis. *Carbon*, **1995**, 33, 253-258	10.4	9
80	Multiobjective dynamic optimization of a nonvaporizing nylon 6 batch reactor. *Polymer Engineering and Science*, **1994**, 34, 1161-1172	2.3	17
79	Molecular model for solid-state polymerization of nylon 6. II. An improved model. *Journal of Applied Polymer Science*, **1994**, 53, 85-103	2.9	18
78	Vapor grown carbon fibers: Modeling of filament length distributions. *Journal of Analytical and Applied Pyrolysis*, **1994**, 28, 255-270	6	4
77	Simulation of an industrial semibatch nylon 6 reactor: optimal parameter estimation. *Polymer*, **1994** , 35, 3722-3734	3.9	25
76	Parameter Estimation for Solution Polymerization of Methylmethacrylate. *Journal of Polymer Engineering*, **1993**, 12,	1.4	5
75	Vapor grown carbon fibers from pyrolysis of hydrocarbons: Modeling of filament growth and poisoning. *Journal of Analytical and Applied Pyrolysis*, **1993**, 26, 131-144	6	10
74	Modelling of an industrial autothermal nylon-6 flow reactor. *Polymer*, **1993**, 34, 1716-1728	3.9	8
73	Dynamic simulation of propylene polymerization in continuous flow stirred tank reactors. *Polymer Engineering and Science*, **1993**, 33, 368-374	2.3	12
72	Modelling of a semibatch polypropylene slurry reactor. *Polymer*, **1993**, 34, 4417-4426	3.9	10

71	MODELING OF HYDROLYTIC POLYMERIZATION IN A SEMIBATCH NYLON 6 REACTOR. *Chemical Engineering Communications*, **1992**, 113, 63-89	2.2	20
70	Steady state simulation of continuous-flow stirred-tank slurry propylene polymerization reactors. *Polymer Engineering and Science*, **1992**, 32, 732-742	2.3	15
69	Simulation of propylene polymerization: an efficient algorithm. *Polymer*, **1992**, 33, 1477-1485	3.9	25
68	A molecular model for solid-state polymerization of nylon 6. *Journal of Applied Polymer Science*, **1992**, 45, 507-520	2.9	29
67	Optimal parameter estimation for methyl methacrylate polymerization. *Polymer*, **1991**, 32, 3233-3243	3.9	19
66	Modelling of propylene polymerization in an isothermal slurry reactor. *Polymer*, **1991**, 32, 2842-2852	3.9	31
65	Optimization of a tubular nylon 6 reactor with radial gradients. *Polymer Engineering and Science*, **1991**, 31, 596-606	2.3	12
64	Optimal temperature profiles for methylmethacrylate polymerization in the presence of end point constraints. *Polymer Engineering and Science*, **1991**, 31, 1708-1715	2.3	19
63	NYLON 6 POLYMERIZATION IN TUBULAR REACTORS: ORTHOGONAL COLLOCATION RESULTS. *Journal of Polymer Engineering*, **1990**, 9,	1.4	2
62	Simulation of non-vaporizing tubular nylon-6 reactors with radial gradients: finite-difference computations. *Polymer*, **1989**, 30, 1918-1930	3.9	6
61	Parametric sensitivity of chain polymerization reactors exhibiting the trommsdorff effect. *Polymer Engineering and Science*, **1989**, 29, 1246-1258	2.3	16
60	Electropolymerization of 9-vinylanthracene: kinetic study using thin-layer spectroelectrochemistry. *Polymer*, **1988**, 29, 1329-1334	3.9	7
59	Linear Step Growth Polymerization Following the Equal Reactivity Hypothesis. *The Plenum Chemical Engineering Series*, **1987**, 19-62		
58	Polymerization with Formaldehyde. *The Plenum Chemical Engineering Series*, **1987**, 387-425		0
57	Effect of segmental diffusion on irreversible, step growth polymerizations of ARB monomers. *Polymer Engineering and Science*, **1987**, 27, 753-763	2.3	4
56	Parametric sensitivity in tubular polymerization reactors. *Chemical Engineering Science*, **1987**, 42, 2385-2394	4.1	9
55	Simulation of an industrial nylon 6 tubular reactor. *Journal of Applied Polymer Science*, **1987**, 33, 933-954	2.9	16
54	Nonlinear Step Growth Polymerization. *The Plenum Chemical Engineering Series*, **1987**, 93-128		0

53	Optimal Control of Step Growth Polymerizations. *The Plenum Chemical Engineering Series*, **1987**, 167-185		
52	Linear Step Growth Polymerization Violating the Equal Reactivity Hypothesis. *The Plenum Chemical Engineering Series*, **1987**, 63-91		
51	Polyester Reactors. *The Plenum Chemical Engineering Series*, **1987**, 241-318		1
50	Reaction Engineering of Step Growth Polymerization. *The Plenum Chemical Engineering Series*, **1987** ,		65
49	Mass Transfer in Step Growth Polymerization. *The Plenum Chemical Engineering Series*, **1987**, 129-165		1
48	Nylon Reactors. *The Plenum Chemical Engineering Series*, **1987**, 187-239		2
47	Modeling of melamine formaldehyde polymerization. II. Development of a simpler model. *Journal of Applied Polymer Science*, **1986**, 31, 2805-2827	2.9	4
46	Modelling of intramolecular reactions in the step-growth polymerization of multifunctional monomers. *Polymer*, **1986**, 27, 583-591	3.9	14
45	Optimization of nonvaporizing nylon 6 reactors with stopping conditions and end-point constraints. *Polymer Engineering and Science*, **1986**, 26, 1033-1044	2.3	16
44	Effect of intramolecular reactions in multifunctional step growth polymerizations in cascades of continuous-flow, stirred-tank reactors. *Polymer Engineering and Science*, **1986**, 26, 1314-1322	2.3	
43	SIMULATION AND DESIGN OF NYLON 6 REACTORS. *Journal of Macromolecular Science - Reviews in Macromolecular Chemistry and Physics*, **1986**, 26, 183-247		20
42	Simulation of tubular low-density polyethylene. *Polymer Engineering and Science*, **1985**, 25, 37-47	2.3	26
41	Multifunctional step growth polymerizations in cascades of isothermal, continuous flow, stirred tank reactors. *Polymer Engineering and Science*, **1985**, 25, 332-338	2.3	3
40	Simulation of ARB type reversible step growth polymerization in semibatch reactors. *Journal of Applied Polymer Science*, **1985**, 30, 445-460	2.9	4
39	Forced oscillations in continuous flow stirred tank reactors with nonlinear step growth polymerization. *Journal of Applied Polymer Science*, **1985**, 30, 557-569	2.9	3
38	Optimization of nonvaporizing nylon 6 reactors with stopping conditions. *Journal of Applied Polymer Science*, **1985**, 30, 4529-4550	2.9	8
37	Optimization of the polycondensation stage of poly(ethylene terephthalate) reactors. *Journal of Applied Polymer Science*, **1984**, 29, 1045-1061	2.9	10
36	Optimization of nylon 6 reactors with end-point constraints. *Journal of Applied Polymer Science*, **1984**, 29, 2177-2194	2.9	5

35	Analysis of wiped film reactors using the orthogonal collocation technique. *Journal of Applied Polymer Science*, **1984**, 29, 3217-3230	2.9	10
34	Optimization of the transesterification stage of polyethylene terephthalate reactors. *Polymer Engineering and Science*, **1984**, 24, 185-193	2.3	15
33	Solution of final stages of polyethylene terephthalate reactors using orthogonal collocation technique. *Polymer Engineering and Science*, **1984**, 24, 194-204	2.3	11
32	Optimization of the polycondensation step of polyethylene terephthalate formation with continuous removal of condensation products. *Polymer Engineering and Science*, **1984**, 24, 1205-1214	2.3	8
31	Simulation of reversible AA + B?B? polycondensations in wiped film reactors. *Journal of Applied Polymer Science*, **1983**, 28, 1063-1076	2.9	9
30	Simulation of nylon 6 polymerization in tubular reactors with recycle. *Journal of Applied Polymer Science*, **1983**, 28, 1625-1640	2.9	9
29	Optimal temperature profiles for nylon 6 polymerization in plug-flow reactors. *Journal of Applied Polymer Science*, **1983**, 28, 2261-2279	2.9	13
28	Effect of shear rate on the rate of polymerization of styrene. *Polymer*, **1983**, 24, 443-448	3.9	2
27	Simulation of cyclics and degradation product formation in polyethylene terephthalate reactors. *Polymer*, **1983**, 24, 449-456	3.9	5
26	Molecular weight distributions in novolactype phenol-formaldehyde polymerization. *Polymer*, **1983**, 24, 1180-1187	3.9	8
25	INVITED REVIEW SIMULATION OF STEP GROWTH POLYMERIZATIONS. *Chemical Engineering Communications*, **1983**, 20, 1-52	2.2	25
24	Comments on "Simplified analysis of the performance of wiped-film polycondensation reactors". *Industrial & Engineering Chemistry Fundamentals*, **1983**, 22, 268-268		4
23	Mass transfer effects in polycondensation reactors wherein functional groups are not equally reactive. *Journal of Applied Polymer Science*, **1982**, 27, 1217-1231	2.9	10
22	Simulation of reversible nylon-66 polymerization in homogeneous continuous-flow stirred tank reactors. *Journal of Applied Polymer Science*, **1982**, 27, 1759-1769	2.9	9
21	Simulation of three-stage nylon 6 reactors with intermediate mass transfer at finite rates. *Journal of Applied Polymer Science*, **1982**, 27, 3089-3101	2.9	16
20	Modelling of condensation polymerization of novolac-type phenol-formaldehyde in homogeneous, continuous-flow, stirred-tank reactors. *Journal of Applied Polymer Science*, **1982**, 27, 3393-3405	2.9	5
19	Modelling of reversible poly(ethylene terephthalate) reactors. *Journal of Applied Polymer Science*, **1982**, 27, 4421-4438	2.9	18
18	Modelling of reversible novolac type phenol-formaldehyde polymerization. *Polymer*, **1982**, 23, 1929-1936	3.9	10

17	Simulation of AA + B?B? type reversible polymerizations with mass transfer of condensation product. *Polymer*, **1982**, 23, 1367-1371	3.9	6
16	Molecular weight distributions in novolac type phenol-formaldehyde polymerizations. *Polymer*, **1982**, 23, 215-221	3.9	11
15	Reversible polycondensation characterized by unequal reactivities of functional groups. *Polymer*, **1982**, 23, 222-228	3.9	12
14	Simulation of reversible polycondensations with monomer having reactivity different from that of higher homologs. *Journal of Polymer Science, Polymer Physics Edition*, **1982**, 20, 933-945		10
13	Molecular weight distribution of polyethylene terephthalate in homogeneous, continuous-flow-stirred tank reactors. *Polymer Engineering and Science*, **1982**, 22, 314-323	2.3	16
12	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. *Polymer Engineering and Science*, **1982**, 22, 849-856	2.3	11
11	Simulation of molecular weight distribution and cyclic oligomer formation in the polymerization of nylon 6. *Journal of Applied Polymer Science*, **1981**, 26, 2153-2163	2.9	17
10	Condensation polymerisations with unequal reactivity in segregated continuous-flow stirred tank reactors. *British Polymer Journal*, **1981**, 13, 76-81		3
9	Molecular weight distribution in novolac-type polymerization in homogeneous, continuous-flow stirred tank reactors. *Polymer Engineering and Science*, **1981**, 21, 1218-1227	2.3	7
8	Simulation of reversible nylon-6,6 polymerization. *Polymer*, **1981**, 22, 387-390	3.9	23
7	Molecular weight distributions for reversible nylon-6 polymerizations in batch reactors. *Polymer*, **1981**, 22, 481-487	3.9	18
6	Modelling of resole type phenol formaldehyde polymerization. *Polymer*, **1981**, 22, 1699-1704	3.9	21
5	Modelling of Resole-type Phenol Formaldehyde Polymerisation in Homogeneous, Continuous-Flow, Stirred-Tank Reactors. *British Polymer Journal*, **1980**, 12, 121-129		14
4	Condensation polymerizations in ideal continuous-flow-stirred tank reactors of monomers violating the equal reactivity hypothesis. *Journal of Applied Polymer Science*, **1980**, 25, 1049-1058	2.9	10
3	Condensation polymerization of ARB type monomers in CSTRs wherein the monomer is R times more reactive than other homologues. *Polymer*, **1980**, 21, 1323-1326	3.9	13
2	Molecular weight distribution and moments for condensation polymerization of monomers having reactivity different from their homologues. *Polymer*, **1979**, 20, 305-310	3.9	32
1	Rate of condensation polymerization for monomers having reactivities different from their polymers. *Polymer*, **1977**, 18, 851-852	3.9	23