

Satish J Parulekar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

1,441
citations

20
h-index

35
g-index

76
ext. papers

1,521
ext. citations

4.6
avg, IF

4.31
L-index

#	Paper	IF	Citations
74	Critical Quality Predictive Control of Fed-Batch Mammalian Cell Bioreactors. <i>IFAC-PapersOnLine</i> , 2021 , 54, 330-335	0.7	
73	A dynamic EFM-based model for antibody producing cell lines and model based evaluation of fed-batch processes. <i>Biochemical Engineering Journal</i> , 2020 , 156, 107494	4.2	1
72	Multi-rate data-driven models for lactic acid fermentation - Parameter identification and prediction. <i>Computers and Chemical Engineering</i> , 2019 , 128, 405-416	4	2
71	Development of a recursive time series model for fed-batch mammalian cell culture. <i>Computers and Chemical Engineering</i> , 2018 , 109, 289-298	4	7
70	Direct Carbon Fuel Cells Wetting behavior of graphitic carbon in molten carbonate. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 18858-18871	6.7	9
69	Effect of Spatial Segregation on Commensalistic Cultures in Series Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1525-1542	3.9	
68	Drug Delivery Using Stimuli-Responsive Polymer Gel Spheres. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1741-1755	3.9	26
67	A sharp cut algorithm for optimization. <i>Computers and Chemical Engineering</i> , 2011 , 35, 2716-2728	4	0
66	Drug loading into and drug release from pH- and temperature-responsive cylindrical hydrogels. <i>Biotechnology Progress</i> , 2011 , 27, 1442-54	2.8	10
65	Fate of commensalistic cultures in identical coupled bioreactors. <i>Chemical Engineering Science</i> , 2011 , 66, 1100-1122	4.4	2
64	Delivery of drug macromolecules from thermally responsive gel implants to the posterior eye. <i>Chemical Engineering Science</i> , 2010 , 65, 5170-5177	4.4	13
63	Furan formation during UV-treatment of fruit juices. <i>Food Chemistry</i> , 2010 , 122, 937-942	8.5	34
62	Interactions of Chloride and Polyethylene Glycol in Acidic Copper Sulfate Electrolyte. <i>Journal of the Electrochemical Society</i> , 2008 , 155, D341	3.9	16
61	Interactions of Chloride and 3-Mercapto-1-Propanesulfonic Acid in Acidic Copper Sulfate Electrolyte. <i>Journal of the Electrochemical Society</i> , 2008 , 155, D349	3.9	20
60	Analysis of Pervaporation-Aided Esterification of Organic Acids. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 8490-8504	3.9	15
59	Pervaporation-assisted esterification of lactic and succinic acids with downstream ester recovery. <i>Journal of Membrane Science</i> , 2006 , 281, 435-445	9.6	82
58	Commensalistic cultures with kinetic feedback: static and dynamic behavior. <i>AIChE Journal</i> , 2006 , 52, 2949-2963	3.6	3

57	Magnesium potassium phosphate ceramic for 99Tc immobilization. <i>Journal of Nuclear Materials</i> , 2006 , 348, 272-282	3.3	77
56	A dual-growth kinetic model for biological wastewater reactors. <i>Biotechnology Progress</i> , 2005 , 21, 423-31.8	3.1	6
55	Systematic performance analysis of continuous processes subject to multiple input cycling. <i>Chemical Engineering Science</i> , 2003 , 58, 5173-5194	4.4	16
54	Esterification of Lactic Acid and Ethanol with/without Pervaporation. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 2282-2291	3.9	72
53	A morphologically structured model for penicillin production. <i>Biotechnology and Bioengineering</i> , 2002 , 77, 538-52	4.9	46
52	Effect of environment partitioning on the survival and coexistence of autocatalytic replicators. <i>Physical Review E</i> , 2002 , 66, 051916	2.4	14
51	Forced periodic operations of continuous recombinant cell cultures subject to antibiotic selection pressure. <i>Chemical Engineering Science</i> , 2001 , 56, 6463-6484	4.4	6
50	Analysis of forced periodic operations of continuous bioprocesses: multiple input variations. <i>Chemical Engineering Science</i> , 2000 , 55, 513-533	4.4	19
49	Performance enhancement of batch aerobic digesters via addition of digested sludge. <i>Journal of Hazardous Materials</i> , 2000 , 76, 91-102	12.8	11
48	Production of alpha-amylase in fed-batch cultures of vgb+ and vgb- recombinant Escherichia coli: some observations. <i>Biotechnology Progress</i> , 1999 , 15, 640-5	2.8	7
47	Modal analysis and optimization of isothermal autocatalytic reactions. <i>Chemical Engineering Science</i> , 1998 , 53, 2379-2394	4.4	17
46	Analysis of forced periodic operations of continuous bioprocesses—single input variations. <i>Chemical Engineering Science</i> , 1998 , 53, 2481-2502	4.4	30
45	Synthesis and excretion of alpha-amylase in vgb+ and vgb- recombinant Escherichia coli: a comparative study. <i>Biotechnology and Bioengineering</i> , 1998 , 59, 673-8	4.9	3
44	Competitive anion transport in desalting of mixtures of organic acids by batch electrodialysis. <i>Journal of Membrane Science</i> , 1998 , 141, 75-89	9.6	38
43	Optimal current and voltage trajectories for minimum energy consumption in batch electrodialysis. <i>Journal of Membrane Science</i> , 1998 , 148, 91-103	9.6	31
42	CHLORINE-CATALYZED OXIDATIVE PYROLYSIS OF METHANE: A PARAMETRIC STUDY. <i>Chemical Engineering Communications</i> , 1996 , 155, 157-178	2.2	
41	Periodic operation of continuous recombinant cultures improves antibiotic selection. <i>Chemical Engineering Science</i> , 1996 , 51, 217-231	4.4	17
40	Complex gas - liquid reactions: Feedback from bulk liquid to liquid-liquid interface film. <i>Chemical Engineering Science</i> , 1996 , 51, 2079-2088	4.4	6

39	Gas-liquid reactions in well-mixed reactors—A fresh perspective. <i>Chemical Engineering Science</i> , 1996 , 51, 4561-4577	4.4	5
38	Enzymatic Saccharification of Soybean Hull-Based Materials. <i>Biotechnology Progress</i> , 1995 , 11, 708-711	2.8	11
37	Structure analysis of continuous cultures subject to periodic medium tuning. <i>Chemical Engineering Science</i> , 1993 , 48, 3007-3035	4.4	10
36	Underutilization of loop reactors due to desorption. <i>Chemical Engineering Science</i> , 1993 , 48, 3631-3645	4.4	2
35	Some observations on protease production in continuous suspension cultures of <i>Bacillus firmus</i> . <i>Biotechnology and Bioengineering</i> , 1993 , 41, 43-54	4.9	23
34	Enhanced production of alpha-amylase in fed-batch cultures of <i>Bacillus subtilis</i> TN106[pAT5]. <i>Biotechnology and Bioengineering</i> , 1993 , 42, 1142-50	4.9	33
33	Recent developments in vertebrate cell culture technology. <i>International Review of Cytology</i> , 1992 , 142, 145-211		4
32	Analytical optimization of some single-cycle and repeated fed-batch fermentations. <i>Chemical Engineering Science</i> , 1992 , 47, 4077-4097	4.4	12
31	Oxidative pyrolysis of methane and monochloromethane to higher hydrocarbons with steam. <i>Chemical Engineering Science</i> , 1992 , 47, 2677-2682	4.4	3
30	Immobilization of <i>Escherichia coli</i> JM103[pUC8] in kappa-carrageenan coupled with recombinant protein release by in situ cell membrane permeabilization. <i>Biotechnology Progress</i> , 1991 , 7, 99-110	2.8	14
29	Characterization of kappa-carrageenan gels used for immobilization of <i>Bacillus firmus</i> . <i>Biotechnology Progress</i> , 1991 , 7, 516-25	2.8	15
28	An alternate method for estimation of cell growth kinetics from batch cultures. <i>Biotechnology and Bioengineering</i> , 1991 , 37, 26-34	4.9	5
27	Recombinant protein synthesis and plasmid instability in continuous cultures of <i>Escherichia coli</i> JM103 harboring a high copy number plasmid. <i>Biotechnology and Bioengineering</i> , 1991 , 37, 415-29	4.9	63
26	Recombinant protein excretion in <i>Escherichia coli</i> JM103[pUC8]: Effects of plasmid content, ethylenediaminetetraacetate, and phenethyl alcohol on cell membrane permeability. <i>Biotechnology and Bioengineering</i> , 1991 , 37, 430-44	4.9	13
25	A parametric study of protease production in batch and fed-batch cultures of <i>Bacillus firmus</i> . <i>Biotechnology and Bioengineering</i> , 1991 , 37, 467-83	4.9	131
24	Effects of culture conditions on plasmid stability and production of a plasmid-encoded protein in batch and continuous cultures of <i>Escherichia coli</i> JM103[pUC8]. <i>Annals of the New York Academy of Sciences</i> , 1990 , 589, 91-110	6.5	16
23	Multivariable Control of Continuous and Fed-Batch Bioreactors. <i>Annals of the New York Academy of Sciences</i> , 1990 , 589, 508-528	6.5	5
22	Underutilization of bubble column reactors due to desorption. <i>Chemical Engineering Science</i> , 1989 , 44, 543-558	4.4	6

21	Cell growth and alpha-amylase production characteristics of <i>Bacillus amyloliquefaciens</i> . <i>Biotechnology and Bioengineering</i> , 1989 , 33, 197-206	4.9	29
20	Plasmid stability and alpha-amylase production in batch and continuous cultures of <i>Bacillus subtilis</i> TN106[pAT5]. <i>Biotechnology and Bioengineering</i> , 1989 , 33, 1010-20	4.9	23
19	Expression of beta-lactamase by recombinant <i>Escherichia coli</i> strains containing plasmids of different sizes--effects of pH, phosphate, and dissolved oxygen. <i>Biotechnology and Bioengineering</i> , 1989 , 34, 309-19	4.9	75
18	Cell growth and alpha-amylase production characteristics of <i>Bacillus amyloliquefaciens</i> . <i>Biotechnology and Bioengineering</i> , 1989 , 34, 575	4.9	1
17	Bacterial growth on lactose: an experimental investigation. <i>Biotechnology and Bioengineering</i> , 1989 , 34, 705-16	4.9	11
16	Yield optimization for multiple reactions. <i>Chemical Engineering Science</i> , 1988 , 43, 3077-3091	4.4	9
15	Structured modeling approach to alpha-amylase fermentation using fed-batch cultures of <i>Bacillus</i> species. <i>Annals of the New York Academy of Sciences</i> , 1987 , 506, 617-25	6.5	
14	Interfacial surfactant concentrations on an oscillating droplet: Solution of a singular boundary-initial value problem. <i>Chemical Engineering Science</i> , 1987 , 42, 2447-2454	4.4	2
13	Analysis of continuous cultures of recombinant methylotrophs. <i>Biotechnology and Bioengineering</i> , 1987 , 29, 911-23	4.9	8
12	Dynamics of continuous commensalistic culturesII Multiplicity and local stability of steady states and bifurcation analysis. <i>Chemical Engineering Science</i> , 1986 , 41, 2605-2616	4.4	10
11	Dynamics of continuous commensalistic culturesII. Numerical results for steady-state multiplicity regions and transient behaviour in-the-large. <i>Chemical Engineering Science</i> , 1986 , 41, 2617-2628	4.4	4
10	Induction and elimination of oscillations in continuous cultures of <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 1986 , 28, 700-10	4.9	129
9	Modeling, optimization and control of semi-batch bioreactors 1985 , 207-258		16
8	Tubular reactor stability revisited without the danckwerts boundary conditions. <i>Chemical Engineering Science</i> , 1984 , 39, 455-469	4.4	13
7	Analysis of axially dispersed systems with general boundary conditionsII <i>Chemical Engineering Science</i> , 1984 , 39, 1571-1579	4.4	29
6	Analysis of axially dispersed systems with general boundary conditionsII. <i>Chemical Engineering Science</i> , 1984 , 39, 1581-1597	4.4	9
5	Transients in adiabatic tubular reactors. Axial dispersion models with well-mixed appended sections. <i>Chemical Engineering Science</i> , 1984 , 39, 1785-1790	4.4	1
4	Analysis of axially dispersed systems with general boundary conditionsIII. <i>Chemical Engineering Science</i> , 1984 , 39, 1599-1611	4.4	10

- 3 Steady state thermal behavior of an adiabatic three phase slurry reactor coal liquefaction under slow hydrogen consumption reaction regime. *The Chemical Engineering Journal*, **1982**, 23, 15-30 6
- 2 Multiple steady states in adiabatic gas-liquid-solid reactors. *Chemical Engineering Science*, **1980**, 35, 745-750 2
- 1 Steady-state behavior of gas-liquid-solid fluidized-bed reactors. *The Chemical Engineering Journal*, **1980**, 20, 21-33 26