

Prasad S Dhurjati

List of Publications by Year in descending order

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66
papers

1,958
citations

279701

23
h-index

254106

43
g-index

68
all docs

68
docs citations

68
times ranked

1977
citing authors

#	ARTICLE	IF	CITATIONS
1	Quaternary Ammonium Functionalized Poly(propylene imine) Dendrimers as Effective Antimicrobials: Structure-Activity Studies. <i>Biomacromolecules</i> , 2000, 1, 473-480.	2.6	402
2	Interaction of the duplicated segment carried by <i>Clostridium thermocellum</i> cellulases with cellulosome components. <i>FEBS Letters</i> , 1991, 291, 185-188.	1.3	152
3	High activity of inclusion bodies formed in <i>Escherichia coli</i> overproducing <i>Clostridium thermocellum</i> endoglucanase D. <i>FEBS Letters</i> , 1991, 282, 205-208.	1.3	102
4	Diagnostic model processor: Using deep knowledge for process fault diagnosis. <i>AIChE Journal</i> , 1990, 36, 565-575.	1.8	91
5	Kinetic modelling of hybridoma cell growth and immunoglobulin production in a large-scale suspension culture. <i>Biotechnology and Bioengineering</i> , 1988, 32, 1067-1072.	1.7	70
6	Decreased Protein Expression and Intermittent Recoveries in BiP Levels Result from Cellular Stress during Heterologous Protein Expression in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology Progress</i> , 2002, 18, 942-950.	1.3	69
7	Hypothesis for a systems connectivity model of autism spectrum disorder pathogenesis: Links to gut bacteria, oxidative stress, and intestinal permeability. <i>Medical Hypotheses</i> , 2013, 80, 264-270.	0.8	63
8	Effects of dissolved oxygen shock on the stability of recombinant <i>Escherichia coli</i> containing plasmid pKN401. <i>Biotechnology and Bioengineering</i> , 1987, 29, 85-91.	1.7	56
9	Characterization of the Stress Response of a Bioluminescent Biological Sensor in Batch and Continuous Cultures. <i>Biotechnology Progress</i> , 1996, 12, 387-392.	1.3	49
10	Osmotic Stress in Viable <i>Escherichia coli</i> as the Basis for the Antibiotic Response by Polymyxin B. <i>Biochemical and Biophysical Research Communications</i> , 1998, 246, 619-623.	1.0	48
11	A Miniature Bioreactor for Sensing Toxicity Using Recombinant Bioluminescent <i>Escherichia coli</i> Cells. <i>Biotechnology Progress</i> , 1996, 12, 393-397.	1.3	46
12	Fractional factorial study of hybridoma behavior. 2. Kinetics of nutrient uptake and waste production. <i>Biotechnology Progress</i> , 1993, 9, 309-316.	1.3	43
13	Effects of plasmid amplification and recombinant gene expression on the growth kinetics of recombinant <i>E. coli</i> . <i>Biotechnology and Bioengineering</i> , 1989, 33, 1425-1436.	1.7	41
14	Real-Time compensation of the inner filter effect in high-density bioluminescent cultures. <i>Biotechnology and Bioengineering</i> , 1993, 42, 1190-1198.	1.7	40
15	Intelligent Curing of Thick Composites Using a Knowledge-Based System. <i>Journal of Composite Materials</i> , 1997, 31, 22-51.	1.2	38
16	Neural network-based software sensor: training set design and application to a continuous pulp digester. <i>Control Engineering Practice</i> , 2005, 13, 135-143.	3.2	38
17	Improvement of product yields by temperature-shifting of <i>Escherichia coli</i> cultures containing plasmid pOU140. <i>Biotechnology and Bioengineering</i> , 1987, 29, 513-519.	1.7	36
18	Fractional factorial study of hybridoma behavior. 1. Kinetics of growth and antibody production. <i>Biotechnology Progress</i> , 1993, 9, 298-308.	1.3	36

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19	Implementation of Model-Based Optimal Temperature Profiles for Autoclave Curing of Composites Using a Knowledge-Based System. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 2443-2452.	1.8	36
20	Low-cost computer-coupled fermentor off-gas analysis via quadrupole mass spectrometer. <i>Biotechnology and Bioengineering</i> , 1987, 29, 679-689.	1.7	33
21	A mathematical description of recombinant yeast. <i>Biotechnology and Bioengineering</i> , 1990, 35, 356-374.	1.7	32
22	Î±-Factor directed expression of the human epidermal growth factor in <i>Saccharomyces cerevisiae</i> . <i>Biotechnology and Bioengineering</i> , 1989, 33, 976-983.	1.7	29
23	A comparison of mathematical model predictions to experimental measurements for growth and recombinant protein production in induced cultures of <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 1990, 36, 124-134.	1.7	28
24	Model-based hypothesis of gut microbe populations and gut/brain barrier permeabilities in the development of regressive autism. <i>Medical Hypotheses</i> , 2014, 83, 649-655.	0.8	22
25	Isolation of high-molecular-weight nucleic acids for copy number analysis using high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1987, 402, 189-199.	1.8	21
26	OBJECT-BASED AUTOMATED FAULT DIAGNOSIS. <i>Chemical Engineering Communications</i> , 1991, 102, 107-126.	1.5	21
27	eXPatGen: generating dynamic expression patterns for the systematic evaluation of analytical methods. <i>Bioinformatics</i> , 2003, 19, 1140-1146.	1.8	20
28	Growth kinetics of <i>Escherichia coli</i> containing temperature-sensitive plasmid pOU140. <i>Biotechnology and Bioengineering</i> , 1987, 29, 1164-1172.	1.7	19
29	A detailed analysis of <i>Saccharomyces cerevisiae</i> growth kinetics in batch, fed-batch, and hollow-fiber bioreactors. <i>The Chemical Engineering Journal</i> , 1989, 41, B27-B35.	0.4	19
30	An agent-based modeling framework for evaluating hypotheses on risks for developing autism: Effects of the gut microbial environment. <i>Medical Hypotheses</i> , 2015, 84, 395-401.	0.8	19
31	Use of culture fluorescence as a sensor for on-line discrimination of host and overproducing recombinant <i>Escherichia coli</i> . <i>Biotechnology and Bioengineering</i> , 1989, 33, 500-505.	1.7	18
32	Systems Biology: The synergistic interplay between biology and mathematics. <i>Canadian Journal of Chemical Engineering</i> , 2008, 86, 127-141.	0.9	18
33	An intelligent parallel control system structure for plants with multiple operating regimes. <i>Journal of Process Control</i> , 1999, 9, 453-460.	1.7	17
34	Partitioning of host and recombinant cells in aqueous two-phase polymer systems. <i>Biotechnology and Bioengineering</i> , 1990, 36, 484-492.	1.7	16
35	A Dynamic Mathematical Model To Clarify Signaling Circuitry Underlying Programmed Cell Death Control in <i>Arabidopsis</i> Disease Resistance. <i>Biotechnology Progress</i> , 2008, 20, 426-442.	1.3	15
36	GutLogo: Agent-based modeling framework to investigate spatial and temporal dynamics in the gut microbiome. <i>PLoS ONE</i> , 2018, 13, e0207072.	1.1	15

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37	Systems Biology Investigation of cAMP Modulation to Increase SMN Levels for the Treatment of Spinal Muscular Atrophy. PLoS ONE, 2014, 9, e115473.	1.1	14
38	Caveolae regulate smad signaling as verified by novel imaging and system biology approaches. Journal of Cellular Physiology, 2013, 228, 1060-1069.	2.0	13
39	Effect of a broad-host range plasmid on growth dynamics of Escherichia coli and Pseudomonas putida. Biotechnology and Bioengineering, 1987, 29, 558-565.	1.7	10
40	A coupled knowledge based system using fuzzy optimization for advisory control. AIChE Journal, 1992, 38, 1369-1378.	1.8	10
41	Synthesis and Characterization of L-Lysine Conjugated Silver Nanoparticles Smaller Than 10 nM. Advanced Science, Engineering and Medicine, 2014, 6, 942-947.	0.3	9
42	Feature correlation method for enhancing fermentation development: A comparison of quadratic regression with artificial neural networks. Computers and Chemical Engineering, 1996, 20, S407-S412.	2.0	8
43	Novel Systems Modeling Methodology in Comparative Microbial Metabolomics: Identifying Key Enzymes and Metabolites Implicated in Autism Spectrum Disorders. International Journal of Molecular Sciences, 2015, 16, 8949-8967.	1.8	8
44	An agent-based model to investigate microbial initiation of Alzheimer's via the olfactory system. Theoretical Biology and Medical Modelling, 2020, 17, 5.	2.1	7
45	Measurement of copy number using HPLC. Biotechnology and Bioengineering, 1987, 29, 646-647.	1.7	6
46	Analysis of two interacting bacterial populations with opposite substrate preferences. Biotechnology and Bioengineering, 1987, 29, 1015-1023.	1.7	6
47	Effects of Promoter Induction and Copy Number Amplification on Cloned Gene Expression and Growth of Recombinant Cell Cultures. Annals of the New York Academy of Sciences, 1990, 589, 111-120.	1.8	6
48	Construction and characterization of a specialized ribosome system for the overproduction of proteins in Escherichia coli. Biotechnology Progress, 1993, 9, 345-354.	1.3	5
49	Specialized ribosomes in Escherichia coli. Biotechnology Progress, 1993, 9, 443-449.	1.3	5
50	Development of Physiologically Based Pharmacokinetic Model (PBPK) of BMP2 in Mice. Biological Systems, Open Access, 2013, 02, .	0.1	5
51	Synthesis of L-Cysteine Stabilized Silver Nanoparticles and Their Effects on Cell Viability. Advanced Science Letters, 2012, 6, 26-33.	0.2	5
52	Evolution of protein lipograms: A bioinformatics problem. Biochemistry and Molecular Biology Education, 2006, 34, 262-266.	0.5	4
53	A Physiologically Based Pharmacokinetic Model for Targeting Calcitriol Conjugated Quantum Dots to Inflammatory Breast Cancer Cells. Clinical and Translational Science, 2019, 12, 617-624.	1.5	3
54	Mathematical modeling for mixed culture growth of two bacterial populations with opposite substrate preferences. Biotechnology and Bioengineering, 1988, 31, 144-159.	1.7	2

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55	Elucidation of enzyme control mechanisms using macroscopic measurements in a mixed substrate fermentation system. <i>Biotechnology and Bioengineering</i> , 1988, 31, 311-320.	1.7	2
56	Mathematical Model of Temperature-Sensitive Plasmid Replication. <i>Plasmid</i> , 1994, 32, 131-167.	0.4	2
57	Nonlinear PI Controllers Based on Low-Order Empirical Process Models. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 4668-4677.	1.8	2
58	A simple and accurate rule-based modeling framework for simulation of autocrine/paracrine stimulation of glioblastoma cell motility and proliferation by L1CAM in 2-D culture. <i>BMC Systems Biology</i> , 2017, 11, 124.	3.0	2
59	Modeling Framework for Biogenic Methane Formation from Coal. <i>Energy & Fuels</i> , 2018, 32, 8453-8461.	2.5	2
60	Experimental Investigation of the In Vivo Kinetics of Inclusion Body Formation. <i>ACS Symposium Series</i> , 1993, , 59-71.	0.5	1
61	Reconciling Academic Approaches and Industrial Realities: Lessons from Fault Diagnosis Applications. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1998, 31, 83-88.	0.4	1
62	Framework for Modeling Information Flow in Biological Processes: Application to the Unfolded Protein Response. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2001, 34, 131-136.	0.4	1
63	Design Methodology for Screening Dynamic Characteristics of Candidate Heat-Integrated Flowsheets. <i>Industrial & Engineering Chemistry Research</i> , 2010, 49, 9877-9886.	1.8	1
64	Classifying Models. <i>Nature Biotechnology</i> , 1989, 7, 85-85.	9.4	0
65	Duplicated Segment of <i>Clostridium thermocellum</i> Cellulases. <i>ACS Symposium Series</i> , 1993, , 38-45.	0.5	0
66	Development of Pattern Recognition Algorithms for Identification of Gut Microorganisms using Fatty Acid Signatures. <i>FASEB Journal</i> , 2012, 26, 983.2.	0.2	0