

Guhan Jayaraman

List of Publications by Year in descending order

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41
papers

1,077
citations

331642

21
h-index

414395

32
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47
all docs

47
docs citations

47
times ranked

786
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of non-linear adsorption properties of dextran-based polyelectrolyte displacers in ion-exchange systems. <i>Journal of Chromatography A</i> , 1993, 630, 37-52.	3.7	97
2	Ion-exchange displacement chromatography of proteins. <i>Journal of Chromatography A</i> , 1993, 630, 53-68.	3.7	87
3	Ion-exchange displacement chromatography of proteins Dendritic polymers as novel displacers. <i>Journal of Chromatography A</i> , 1995, 702, 143-155.	3.7	83
4	Hyaluronic acid production is enhanced by the additional co-expression of UDP-glucose pyrophosphorylase in <i>Lactococcus lactis</i> . <i>Applied Microbiology and Biotechnology</i> , 2010, 86, 273-283.	3.6	74
5	Protected amino acids as novel low-molecular-weight displacers in cation-exchange displacement chromatography. <i>Biotechnology and Bioengineering</i> , 1995, 48, 452-460.	3.3	54
6	Ratio of intracellular precursors concentration and their flux influences hyaluronic acid molecular weight in <i>Streptococcus zooepidemicus</i> and recombinant <i>Lactococcus lactis</i> . <i>Bioresource Technology</i> , 2014, 163, 222-227.	9.6	46
7	Engineering <i>Escherichia coli</i> with acrylate pathway genes for propionic acid synthesis and its impact on mixed-acid fermentation. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 1191-1200.	3.6	45
8	Effects of post-induction feed strategies on secretory production of recombinant streptokinase in <i>Escherichia coli</i> . <i>Biochemical Engineering Journal</i> , 2007, 33, 34-41.	3.6	41
9	Hyaluronan production and molecular weight is enhanced in pathway-engineered strains of lactate dehydrogenase-deficient <i>Lactococcus lactis</i> . <i>Metabolic Engineering Communications</i> , 2016, 3, 15-23.	3.6	41
10	Glycerol conversion to 1, 3-Propanediol is enhanced by the expression of a heterologous alcohol dehydrogenase gene in <i>Lactobacillus reuteri</i> . <i>AMB Express</i> , 2011, 1, 37.	3.0	38
11	Chromosomal integration of hyaluronic acid synthesis (<i>has</i>) genes enhances the molecular weight of hyaluronan produced in <i>Lactococcus lactis</i> . <i>Biotechnology Journal</i> , 2014, 9, 1554-1564.	3.5	35
12	Transcription analysis of hyaluronan biosynthesis genes in <i>Streptococcus zooepidemicus</i> and metabolically engineered <i>Lactococcus lactis</i> . <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 1593-1607.	3.6	29
13	Recombinant protein purification using gradient assisted simulated moving bed hydrophobic interaction chromatography. Part II: Process design and experimental validation. <i>Journal of Chromatography A</i> , 2011, 1218, 6402-6411.	3.7	24
14	The P170 expression system enhances hyaluronan molecular weight and production in metabolically-engineered <i>Lactococcus lactis</i> . <i>Biochemical Engineering Journal</i> , 2014, 90, 73-78.	3.6	24
15	Production of controlled molecular weight hyaluronic acid by glucostat strategy using recombinant <i>Lactococcus lactis</i> cultures. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 4363-4375.	3.6	24
16	Displacement chromatography of biomolecules with large particle diameter systems. <i>Journal of Chromatography A</i> , 1989, 484, 225-236.	3.7	23
17	Biosynthesis of Hyaluronic acid polymer: Dissecting the role of sub structural elements of hyaluronan synthase. <i>Scientific Reports</i> , 2019, 9, 12510.	3.3	23
18	Co-culture of <i>Lactobacillus delbrueckii</i> and engineered <i>Lactococcus lactis</i> enhances stoichiometric yield of d-lactic acid from whey permeate. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 5653-5662.	3.6	23

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19	Preparative chromatography in biotechnology. <i>Current Opinion in Biotechnology</i> , 1993, 4, 217-225.	6.6	22
20	On-line monitoring of recombinant bacterial cultures using multi-wavelength fluorescence spectroscopy. <i>Biochemical Engineering Journal</i> , 2011, 58-59, 133-139.	3.6	22
21	Enhancement of recombinant streptokinase production in <i>Lactococcus lactis</i> by suppression of acid tolerance response. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 1202-1209.	3.6	21
22	Design of aqueous two-phase systems for purification of hyaluronic acid produced by metabolically engineered <i>Lactococcus lactis</i> . <i>Journal of Separation Science</i> , 2016, 39, 655-662.	2.5	20
23	HtrA Is Essential for Efficient Secretion of Recombinant Proteins by <i>Lactococcus lactis</i> . <i>Applied and Environmental Microbiology</i> , 2008, 74, 7442-7446.	3.1	19
24	Improving the accuracy of hyaluronic acid molecular weight estimation by conventional size exclusion chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1060, 255-261.	2.3	18
25	Inactivation behavior and intracellular changes in <i>Escherichia coli</i> during electro-oxidation process using Ti/Sb-SnO ₂ /PbO ₂ anode: Elucidation of the disinfection mechanism. <i>Environmental Research</i> , 2022, 210, 112749.	7.5	17
26	Eggshell derived hydroxyapatite microspheres for chromatographic applications by a novel dissolution - precipitation method. <i>Ceramics International</i> , 2021, 47, 18575-18583.	4.8	16
27	Recombinant protein purification using gradient-assisted simulated moving bed hydrophobic interaction chromatography. Part I: Selection of chromatographic system and estimation of adsorption isotherms. <i>Journal of Chromatography A</i> , 2011, 1218, 6396-6401.	3.7	14
28	Uncovering Novel Pathways for Enhancing Hyaluronan Synthesis in Recombinant <i>Lactococcus lactis</i> : Genome-Scale Metabolic Modeling and Experimental Validation. <i>Processes</i> , 2019, 7, 343.	2.8	13
29	Enhancement of stability of recombinant streptokinase by intracellular expression and single step purification by hydrophobic interaction chromatography. <i>Biochemical Engineering Journal</i> , 2008, 39, 84-90.	3.6	12
30	Evolutionary engineering of <i>Lactobacillus bulgaricus</i> reduces enzyme usage and enhances conversion of lignocellulosics to D-lactic acid by simultaneous saccharification and fermentation. <i>Biotechnology for Biofuels</i> , 2020, 13, 171.	6.2	12
31	Exploiting the diversity of streptococcal hyaluronan synthases for the production of molecular weight-tailored hyaluronan. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 7567-7581.	3.6	11
32	Enhancement of acetyl-CoA by acetate co-utilization in recombinant <i>Lactococcus lactis</i> cultures enables the production of high molecular weight hyaluronic acid. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 6989-7001.	3.6	10
33	Cellular response to accumulation of recombinant proteins in the <i>E. coli</i> inner membrane: Implications for proteolysis and productivity of the secretory expression system. <i>Biochemical Engineering Journal</i> , 2008, 39, 74-83.	3.6	9
34	Process strategies for enhancing recombinant streptokinase production in <i>Lactococcus lactis</i> cultures using P170 expression system. <i>Biochemical Engineering Journal</i> , 2015, 93, 94-101.	3.6	7
35	Continuous refolding of L-asparaginase inclusion bodies using periodic counter-current chromatography. <i>Journal of Chromatography A</i> , 2022, 1662, 462746.	3.7	6
36	Theoretical and experimental investigation of chaperone effects on soluble recombinant proteins in <i>Escherichia coli</i> : effect of free DnaK level on temperature-induced recombinant streptokinase production. <i>Systems and Synthetic Biology</i> , 2008, 2, 27-48.	1.0	5

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37	Real-time monitoring of hyaluronic acid fermentation by in situ transfectance spectroscopy. Applied Microbiology and Biotechnology, 2018, 102, 2659-2669.	3.6	5
38	Process optimization for the rapid conversion of calcite into hydroxyapatite microspheres for chromatographic applications. Scientific Reports, 2022, 12, .	3.3	5
39	Hyaluronic acid production is enhanced by harnessing the heme-induced respiration in recombinant Lactococcus lactis cultures. Biochemical Engineering Journal, 2022, 182, 108428.	3.6	2
40	Extraction of pure component spectrum from mixture spectra containing a known diluent. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 649-653.	0.4	0
41	Design and Construction of a Synthetic Riboregulator-Based Platform for Metabolic Shunting of Pathways in Lactococcus lactis. Proceedings of the Singapore National Academy of Science, 2019, 13, 17-26.	0.1	0