

Christopher V Rao

List of Publications by Citations

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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.

48 papers	1,457 citations	22 h-index	37 g-index
49 ext. papers	2,034 ext. citations	5.3 avg, IF	5.25 L-index

#	Paper	IF	Citations
48	Recent developments in pretreatment technologies on lignocellulosic biomass: Effect of key parameters, technological improvements, and challenges. <i>Bioresource Technology</i> , 2020 , 300, 122724	11	240
47	Engineering <i>Rhodospiridium toruloides</i> for increased lipid production. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1056-66	4.9	111
46	Linear programming and model predictive control. <i>Journal of Process Control</i> , 2000 , 10, 283-289	3.9	85
45	The three adaptation systems of <i>Bacillus subtilis</i> chemotaxis. <i>Trends in Microbiology</i> , 2008 , 16, 480-7	12.4	83
44	Metabolic engineering of the oleaginous yeast <i>Rhodospiridium toruloides</i> IFO0880 for lipid overproduction during high-density fermentation. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 9393-9405	5.7	74
43	Stokes trap for multiplexed particle manipulation and assembly using fluidics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3976-81	11.5	72
42	Ancient Regulatory Role of Lysine Acetylation in Central Metabolism. <i>MBio</i> , 2017 , 8,	7.8	59
41	Alginate lyases from alginate-degrading <i>Vibrio splendidus</i> 12B01 are endolytic. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 1865-73	4.8	56
40	Renewable biohydrogen production from lignocellulosic biomass using fermentation and integration of systems with other energy generation technologies. <i>Science of the Total Environment</i> , 2021 , 765, 144429	10.2	54
39	A modular positive feedback-based gene amplifier. <i>Journal of Biological Engineering</i> , 2010 , 4, 4	6.3	45
38	Production of 1-decanol by metabolically engineered <i>Yarrowia lipolytica</i> . <i>Metabolic Engineering</i> , 2016 , 38, 139-147	9.7	45
37	A nutrient-tunable bistable switch controls motility in <i>Salmonella enterica</i> serovar Typhimurium. <i>MBio</i> , 2014 , 5, e01611-14	7.8	44
36	Metabolic Engineering of Probiotic <i>Saccharomyces boulardii</i> . <i>Applied and Environmental Microbiology</i> , 2016 , 82, 2280-2287	4.8	43
35	Increasing Growth Yield and Decreasing Acetylation in <i>Escherichia coli</i> by Optimizing the Carbon-to-Magnesium Ratio in Peptide-Based Media. <i>Applied and Environmental Microbiology</i> , 2017 , 83,	4.8	32
34	Microbial conversion of xylose into useful bioproducts. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 9015-9036	5.7	32
33	Production of D-arabitol from D-xylose by the oleaginous yeast <i>Rhodospiridium toruloides</i> IFO0880. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 143-151	5.7	32
32	Regulation of metabolism in <i>Escherichia coli</i> during growth on mixtures of the non-glucose sugars: arabinose, lactose, and xylose. <i>Scientific Reports</i> , 2018 , 8, 609	4.9	31

31	Reciprocal Regulation of l-Arabinose and d-Xylose Metabolism in Escherichia coli. <i>Journal of Bacteriology</i> , 2016 , 198, 386-93	3.5	27
30	A comprehensive genome-scale model for IFO0880 accounting for functional genomics and phenotypic data. <i>Metabolic Engineering Communications</i> , 2019 , 9, e00101	6.5	26
29	High-throughput sequencing reveals adaptation-induced mutations in pentose-fermenting strains of Zymomonas mobilis. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 2228-40	4.9	26
28	Expanding the synthetic biology toolbox: engineering orthogonal regulators of gene expression. <i>Current Opinion in Biotechnology</i> , 2012 , 23, 689-94	11.4	26
27	Evolutionary engineering of Geobacillus thermoglucosidasius for improved ethanol production. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 2156-67	4.9	24
26	pH selectively regulates citric acid and lipid production in Yarrowia lipolytica W29 during nitrogen-limited growth on glucose. <i>Journal of Biotechnology</i> , 2019 , 290, 10-15	3.7	22
25	Oscillatory behavior of neutrophils under opposing chemoattractant gradients supports a winner-take-all mechanism. <i>PLoS ONE</i> , 2014 , 9, e85726	3.7	19
24	Production of galactitol from galactose by the oleaginous yeast IFO0880. <i>Biotechnology for Biofuels</i> , 2019 , 12, 250	7.8	17
23	Global Lysine Acetylation in Results from Growth Conditions That Favor Acetate Fermentation. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	13
22	Growth rate control of flagellar assembly in Escherichia coli strain RP437. <i>Scientific Reports</i> , 2017 , 7, 41189	4.9	12
21	Site-specific methylation in Bacillus subtilis chemotaxis: effect of covalent modifications to the chemotaxis receptor McpB. <i>Microbiology (United Kingdom)</i> , 2011 , 157, 56-65	2.9	11
20	Exploiting fine-scale genetic and physiological variation of closely related microbes to reveal unknown enzyme functions. <i>Journal of Biological Chemistry</i> , 2017 , 292, 13056-13067	5.4	10
19	The Unconventional Cytoplasmic Sensing Mechanism for Ethanol Chemotaxis in Bacillus subtilis. <i>MBio</i> , 2020 , 11,	7.8	10
18	The Mechanism of Bidirectional pH Taxis in Bacillus subtilis. <i>Journal of Bacteriology</i> , 2020 , 202,	3.5	10
17	Characterization of the GH16 and GH17 laminarinases from Vibrio breoganii 1C10. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 161-171	5.7	10
16	Engineering xylose metabolism in yeasts to produce biofuels and chemicals. <i>Current Opinion in Biotechnology</i> , 2021 , 67, 15-25	11.4	9
15	Black and white with some shades of grey: the diverse responses of inducible metabolic pathways in Escherichia coli. <i>Molecular Microbiology</i> , 2014 , 93, 1079-83	4.1	8
14	Sparsity of Linear Discrete-Time Optimal Control Problems With \mathcal{L}_1 Objectives. <i>IEEE Transactions on Automatic Control</i> , 2018 , 63, 513-517	5.9	6

13	Driving the expression of the Salmonella enterica sv Typhimurium flagellum using flhDC from Escherichia coli results in key regulatory and cellular differences. <i>Scientific Reports</i> , 2018 , 8, 16705	4.9	6
12	Synergistic action of SPI-1 gene expression in Salmonella enterica serovar typhimurium through transcriptional crosstalk with the flagellar system. <i>BMC Microbiology</i> , 2019 , 19, 211	4.5	5
11	Extracellular Acidic pH Inhibits Acetate Consumption by Decreasing Gene Transcription of the Tricarboxylic Acid Cycle and the Glyoxylate Shunt. <i>Journal of Bacteriology</i> , 2019 , 201,	3.5	5
10	Dynamic Measures of Flagellar Gene Expression. <i>Methods in Molecular Biology</i> , 2017 , 1593, 73-83	1.4	4
9	Two Tandem Mechanisms Control Bimodal Expression of the Flagellar Genes in Salmonella enterica. <i>Journal of Bacteriology</i> , 2020 , 202,	3.5	3
8	Metabolic engineering of Parageobacillus thermoglucosidasius for the efficient production of (2R, 3R)-butanediol. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 4303-4311	5.7	3
7	Metabolic engineering of the oleaginous yeast Yarrowia lipolytica PO1f for production of erythritol from glycerol. <i>Biotechnology for Biofuels</i> , 2021 , 14, 188	7.8	3
6	Quorum Sensing in Yeast. <i>ACS Symposium Series</i> , 2020 , 235-250	0.4	2
5	In Vitro Assay for Measuring Receptor-Kinase Activity in the Bacillus subtilis Chemotaxis Pathway. <i>Methods in Molecular Biology</i> , 2018 , 1729, 95-105	1.4	1
4	Characterization of opposing responses to phenol by chemoreceptors.. <i>Journal of Bacteriology</i> , 2022 , JB0044121	3.5	1
3	HilE is required for synergistic activation of SPI-1 gene expression in Salmonella enterica serovar Typhimurium. <i>BMC Microbiology</i> , 2021 , 21, 49	4.5	0
2	Control Challenges in Synthetic Biology. <i>IFAC-PapersOnLine</i> , 2015 , 48, 996-1001	0.7	
1	Near-Complete Genome Sequence of Zygosaccharomyces rouxii NRRL Y-64007, a Yeast Capable of Growing on Lignocellulosic Hydrolysates.. <i>Microbiology Resource Announcements</i> , 2022 , e0005022	1.3	