

# Christopher V Rao

## 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.

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	Characterization of opposing responses to phenol by chemoreceptors.. <i>Journal of Bacteriology</i> , <b>2022</b> , JB0044121	3.5	1
47	Near-Complete Genome Sequence of <i>Zygosaccharomyces rouxii</i> NRRL Y-64007, a Yeast Capable of Growing on Lignocellulosic Hydrolysates.. <i>Microbiology Resource Announcements</i> , <b>2022</b> , e0005022	1.3	
46	Renewable biohydrogen production from lignocellulosic biomass using fermentation and integration of systems with other energy generation technologies. <i>Science of the Total Environment</i> , <b>2021</b> , 765, 144429	10.2	54
45	Engineering xylose metabolism in yeasts to produce biofuels and chemicals. <i>Current Opinion in Biotechnology</i> , <b>2021</b> , 67, 15-25	11.4	9
44	HilE is required for synergistic activation of SPI-1 gene expression in <i>Salmonella enterica</i> serovar Typhimurium. <i>BMC Microbiology</i> , <b>2021</b> , 21, 49	4.5	0
43	Metabolic engineering of the oleaginous yeast <i>Yarrowia lipolytica</i> PO1f for production of erythritol from glycerol. <i>Biotechnology for Biofuels</i> , <b>2021</b> , 14, 188	7.8	3
42	Two Tandem Mechanisms Control Bimodal Expression of the Flagellar Genes in <i>Salmonella enterica</i> . <i>Journal of Bacteriology</i> , <b>2020</b> , 202,	3.5	3
41	Metabolic engineering of <i>Parageobacillus thermoglucosidasius</i> for the efficient production of (2R, 3R)-butanediol. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 4303-4311	5.7	3
40	The Unconventional Cytoplasmic Sensing Mechanism for Ethanol Chemotaxis in <i>Bacillus subtilis</i> . <i>MBio</i> , <b>2020</b> , 11,	7.8	10
39	Quorum Sensing in Yeast. <i>ACS Symposium Series</i> , <b>2020</b> , 235-250	0.4	2
38	The Mechanism of Bidirectional pH Taxis in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , <b>2020</b> , 202,	3.5	10
37	Recent developments in pretreatment technologies on lignocellulosic biomass: Effect of key parameters, technological improvements, and challenges. <i>Bioresource Technology</i> , <b>2020</b> , 300, 122724	11	240
36	Characterization of the GH16 and GH17 laminarinases from <i>Vibrio breoganii</i> 1C10. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 161-171	5.7	10
35	Production of galactitol from galactose by the oleaginous yeast IFO0880. <i>Biotechnology for Biofuels</i> , <b>2019</b> , 12, 250	7.8	17
34	A comprehensive genome-scale model for IFO0880 accounting for functional genomics and phenotypic data. <i>Metabolic Engineering Communications</i> , <b>2019</b> , 9, e00101	6.5	26
33	Synergistic action of SPI-1 gene expression in <i>Salmonella enterica</i> serovar typhimurium through transcriptional crosstalk with the flagellar system. <i>BMC Microbiology</i> , <b>2019</b> , 19, 211	4.5	5
32	Global Lysine Acetylation in Results from Growth Conditions That Favor Acetate Fermentation. <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	13

31	Extracellular Acidic pH Inhibits Acetate Consumption by Decreasing Gene Transcription of the Tricarboxylic Acid Cycle and the Glyoxylate Shunt. <i>Journal of Bacteriology</i> , <b>2019</b> , 201,	3.5	5
30	pH selectively regulates citric acid and lipid production in <i>Yarrowia lipolytica</i> W29 during nitrogen-limited growth on glucose. <i>Journal of Biotechnology</i> , <b>2019</b> , 290, 10-15	3.7	22
29	In Vitro Assay for Measuring Receptor-Kinase Activity in the <i>Bacillus subtilis</i> Chemotaxis Pathway. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1729, 95-105	1.4	1
28	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> , <b>2018</b> , 8, 609	4.9	31
27	Sparsity of Linear Discrete-Time Optimal Control Problems With $\mathcal{L}_1$ Objectives. <i>IEEE Transactions on Automatic Control</i> , <b>2018</b> , 63, 513-517	5.9	6
26	Microbial conversion of xylose into useful bioproducts. <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 9015-9036	5.7	32
25	Production of D-arabitol from D-xylose by the oleaginous yeast <i>Rhodospiridium toruloides</i> IFO0880. <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 143-151	5.7	32
24	Driving the expression of the <i>Salmonella enterica</i> sv Typhimurium flagellum using flhDC from <i>Escherichia coli</i> results in key regulatory and cellular differences. <i>Scientific Reports</i> , <b>2018</b> , 8, 16705	4.9	6
23	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> , <b>2017</b> , 83,	4.8	32
22	Growth rate control of flagellar assembly in <i>Escherichia coli</i> strain RP437. <i>Scientific Reports</i> , <b>2017</b> , 7, 41189	4.9	12
21	Exploiting fine-scale genetic and physiological variation of closely related microbes to reveal unknown enzyme functions. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 13056-13067	5.4	10
20	Dynamic Measures of Flagellar Gene Expression. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1593, 73-83	1.4	4
19	Ancient Regulatory Role of Lysine Acetylation in Central Metabolism. <i>MBio</i> , <b>2017</b> , 8,	7.8	59
18	Evolutionary engineering of <i>Geobacillus thermoglucosidasius</i> for improved ethanol production. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 2156-67	4.9	24
17	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> , <b>2016</b> , 113, 3976-81	11.5	72
16	Metabolic Engineering of Probiotic <i>Saccharomyces boulardii</i> . <i>Applied and Environmental Microbiology</i> , <b>2016</b> , 82, 2280-2287	4.8	43
15	Reciprocal Regulation of l-Arabinose and d-Xylose Metabolism in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , <b>2016</b> , 198, 386-93	3.5	27
14	Engineering <i>Rhodospiridium toruloides</i> for increased lipid production. <i>Biotechnology and Bioengineering</i> , <b>2016</b> , 113, 1056-66	4.9	111

13	Metabolic engineering of the oleaginous yeast <i>Rhodospiridium toruloides</i> IFO0880 for lipid overproduction during high-density fermentation. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 9393-9405	5.7	74
12	Production of 1-decanol by metabolically engineered <i>Yarrowia lipolytica</i> . <i>Metabolic Engineering</i> , <b>2016</b> , 38, 139-147	9.7	45
11	Alginate lyases from alginate-degrading <i>Vibrio splendidus</i> 12B01 are endolytic. <i>Applied and Environmental Microbiology</i> , <b>2015</b> , 81, 1865-73	4.8	56
10	High-throughput sequencing reveals adaptation-induced mutations in pentose-fermenting strains of <i>Zymomonas mobilis</i> . <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 2228-40	4.9	26
9	Control Challenges in Synthetic Biology. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 996-1001	0.7	
8	A nutrient-tunable bistable switch controls motility in <i>Salmonella enterica</i> serovar Typhimurium. <i>MBio</i> , <b>2014</b> , 5, e01611-14	7.8	44
7	Black and white with some shades of grey: the diverse responses of inducible metabolic pathways in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , <b>2014</b> , 93, 1079-83	4.1	8
6	Oscillatory behavior of neutrophils under opposing chemoattractant gradients supports a winner-take-all mechanism. <i>PLoS ONE</i> , <b>2014</b> , 9, e85726	3.7	19
5	Expanding the synthetic biology toolbox: engineering orthogonal regulators of gene expression. <i>Current Opinion in Biotechnology</i> , <b>2012</b> , 23, 689-94	11.4	26
4	Site-specific methylation in <i>Bacillus subtilis</i> chemotaxis: effect of covalent modifications to the chemotaxis receptor McpB. <i>Microbiology (United Kingdom)</i> , <b>2011</b> , 157, 56-65	2.9	11
3	A modular positive feedback-based gene amplifier. <i>Journal of Biological Engineering</i> , <b>2010</b> , 4, 4	6.3	45
2	The three adaptation systems of <i>Bacillus subtilis</i> chemotaxis. <i>Trends in Microbiology</i> , <b>2008</b> , 16, 480-7	12.4	83
1	Linear programming and model predictive control. <i>Journal of Process Control</i> , <b>2000</b> , 10, 283-289	3.9	85