

# Pramod P Wangikar

## 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.

76  
papers

1,771  
citations

22  
h-index

39  
g-index

81  
ext. papers

2,079  
ext. citations

5.4  
avg, IF

5.2  
L-index

#	Paper	IF	Citations
76	Cyanobacteria as a renewable resource for biofuel production <b>2022</b> , 475-499		
75	High cell density cultivation of in shake flasks for the production of recombinant proteins.. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , <b>2022</b> , 33, e00694	5.3	1
74	Cyanobacteria as cell factories: the roles of host and pathway engineering and translational research. <i>Current Opinion in Biotechnology</i> , <b>2021</b> , 73, 314-322	11.4	3
73	Traits of Fast-Growing Cyanobacteria <b>2021</b> , 441-476		0
72	Adaptive laboratory evolution of the fast-growing cyanobacterium <i>Synechococcus elongatus</i> PCC 11801 for improved solvent tolerance. <i>Journal of Bioscience and Bioengineering</i> , <b>2021</b> , 131, 491-500	3.3	8
71	Transporter engineering for the development of cyanobacteria as cell factories: A text analytics guided survey. <i>Biotechnology Advances</i> , <b>2021</b> , 107816	17.8	
70	Dynamic Inventory of Intermediate Metabolites of Cyanobacteria in a Diurnal Cycle. <i>IScience</i> , <b>2020</b> , 23, 101704	6.1	7
69	A Library of Tunable, Portable, and Inducer-Free Promoters Derived from Cyanobacteria. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 1790-1801	5.7	15
68	Photosynthetic Co-Production of Succinate and Ethylene in A Fast-Growing Cyanobacterium, PCC 11801. <i>Metabolites</i> , <b>2020</b> , 10,	5.6	15
67	A Novel Cyanobacterium <i>Synechococcus elongatus</i> PCC 11802 has Distinct Genomic and Metabolomic Characteristics Compared to its Neighbor PCC 11801. <i>Scientific Reports</i> , <b>2020</b> , 10, 191	4.9	29
66	A method to compute instantaneous oxygen evolution rates in cyanobacterial cultures grown in shake flasks. <i>Engineering Reports</i> , <b>2020</b> , 2, e12094	1.2	1
65	Metabolic engineering of a fast-growing cyanobacterium PCC 11801 for photoautotrophic production of succinic acid. <i>Biotechnology for Biofuels</i> , <b>2020</b> , 13, 89	7.8	15
64	Metabolic engineering of cyanobacteria for production of platform chemicals: A synthetic biology approach <b>2020</b> , 127-145		1
63	Expanding the repertoire of nitrilases with broad substrate specificity and high substrate tolerance for biocatalytic applications. <i>Process Biochemistry</i> , <b>2020</b> , 94, 289-296	4.8	3
62	The role of systems biology in developing non-model cyanobacteria as hosts for chemical production. <i>Current Opinion in Biotechnology</i> , <b>2020</b> , 64, 62-69	11.4	16
61	Characterization and Application of a Robust Glucose Dehydrogenase from for Cofactor Regeneration in Biocatalysis. <i>Indian Journal of Microbiology</i> , <b>2020</b> , 60, 87-95	3.7	2
60	Evaluation of freely available software tools for untargeted quantification of C isotopic enrichment in cellular metabolome from HR-LC/MS data. <i>Metabolic Engineering Communications</i> , <b>2020</b> , 10, e00120	6.5	3

59	Effect of elevated carbon dioxide and nitric oxide on the physiological responses of two green algae, <i>Asterarcys quadricellulare</i> and <i>Chlorella sorokiniana</i> . <i>Journal of Applied Phycology</i> , <b>2020</b> , 32, 189-204	3.2	8
58	Liquid Chromatography Methods for Separation of Polar and Charged Intracellular Metabolites for C Metabolic Flux Analysis. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2088, 33-50	1.4	2
57	SWATH: A Data-Independent Tandem Mass Spectrometry Method to Quantify C Enrichment in Cellular Metabolites and Fragments. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2088, 189-204	1.4	1
56	Elevated carbon dioxide levels lead to proteome-wide alterations for optimal growth of a fast-growing cyanobacterium, <i>Synechococcus elongatus</i> PCC 11801. <i>Scientific Reports</i> , <b>2019</b> , 9, 6257	4.9	14
55	Fine-Tuning Native Promoters of <i>Synechococcus elongatus</i> PCC 7942 To Develop a Synthetic Toolbox for Heterologous Protein Expression. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 1219-1223	5.7	19
54	Mass Isotopologue Distribution of dimer ion adducts of intracellular metabolites for potential applications in <sup>13</sup> C Metabolic Flux Analysis. <i>PLoS ONE</i> , <b>2019</b> , 14, e0220412	3.7	8
53	The effect of CO in enhancing photosynthetic cofactor recycling for alcohol dehydrogenase mediated chiral synthesis in cyanobacteria. <i>Journal of Biotechnology</i> , <b>2019</b> , 289, 1-6	3.7	14
52	Isolation and biochemical characterisation of two thermophilic green algal species- <i>Asterarcys quadricellulare</i> and <i>Chlorella sorokiniana</i> , which are tolerant to high levels of carbon dioxide and nitric oxide. <i>Algal Research</i> , <b>2018</b> , 30, 28-37	5	51
51	Development of biotransformation process for asymmetric reduction with novel anti-Prelog NADH-dependent alcohol dehydrogenases. <i>Process Biochemistry</i> , <b>2018</b> , 70, 71-78	4.8	18
50	SWATH Tandem Mass Spectrometry Workflow for Quantification of Mass Isotopologue Distribution of Intracellular Metabolites and Fragments Labeled with Isotopic C Carbon. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 6486-6493	7.8	25
49	Cyanobacteria: Promising biocatalysts for sustainable chemical production. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 5044-5052	5.4	127
48	Recent advances in synthetic biology of cyanobacteria. <i>Applied Microbiology and Biotechnology</i> , <b>2018</b> , 102, 5457-5471	5.7	50
47	Genome Features and Biochemical Characteristics of a Robust, Fast Growing and Naturally Transformable Cyanobacterium <i>Synechococcus elongatus</i> PCC 11801 Isolated from India. <i>Scientific Reports</i> , <b>2018</b> , 8, 16632	4.9	60
46	An improved method for extraction of polar and charged metabolites from cyanobacteria. <i>PLoS ONE</i> , <b>2018</b> , 13, e0204273	3.7	13
45	CFD analysis of the flow dynamics of microorganisms in dilute cultures in stirred tank photobioreactors. <i>Bioresource Technology Reports</i> , <b>2018</b> , 3, 238-246	4.1	2
44	Rerouting of carbon flux in a glycogen mutant of cyanobacteria assessed via isotopically non-stationary C metabolic flux analysis. <i>Biotechnology and Bioengineering</i> , <b>2017</b> , 114, 2298-2308	4.9	51
43	Gene essentiality, conservation index and co-evolution of genes in cyanobacteria. <i>PLoS ONE</i> , <b>2017</b> , 12, e0178565	3.7	6
42	Effect of high CO <sub>2</sub> concentrations on the growth and macromolecular composition of a heat- and high-light-tolerant microalga. <i>Journal of Applied Phycology</i> , <b>2016</b> , 28, 2631-2640	3.2	26

41	Rhythmic oscillations in KaiC1 phosphorylation and ATP/ADP ratio in nitrogen-fixing cyanobacterium <i>Cyanothece</i> sp. ATCC 51142. <i>Biological Rhythm Research</i> , <b>2016</b> , 47, 285-301	0.8	3
40	Metabolic model of <i>Synechococcus</i> sp. PCC 7002: Prediction of flux distribution and network modification for enhanced biofuel production. <i>Bioresource Technology</i> , <b>2016</b> , 213, 190-197	11	59
39	Optimization of high cell density fermentation process for recombinant nitrilase production in <i>E. coli</i> . <i>Bioresource Technology</i> , <b>2015</b> , 188, 202-8	11	31
38	Extremophilic micro-algae and their potential contribution in biotechnology. <i>Bioresource Technology</i> , <b>2015</b> , 184, 363-372	11	163
37	Challenges and opportunities for microalgae-mediated CO <sub>2</sub> capture and biorefinery. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 1281-96	4.9	41
36	Influence of mixotrophic growth on rhythmic oscillations in expression of metabolic pathways in diazotrophic cyanobacterium <i>Cyanothece</i> sp. ATCC 51142. <i>Bioresource Technology</i> , <b>2015</b> , 188, 145-52	11	5
35	Coupling of Cellular Processes and Their Coordinated Oscillations under Continuous Light in <i>Cyanothece</i> sp. ATCC 51142, a Diazotrophic Unicellular Cyanobacterium. <i>PLoS ONE</i> , <b>2015</b> , 10, e0125148	3.7	6
34	Association of genetic variants with anti-tuberculosis drug induced hepatotoxicity: a high resolution melting analysis. <i>Infection, Genetics and Evolution</i> , <b>2014</b> , 23, 42-8	4.5	11
33	Diurnal rhythm of a unicellular diazotrophic cyanobacterium under mixotrophic conditions and elevated carbon dioxide. <i>Photosynthesis Research</i> , <b>2013</b> , 118, 51-7	3.7	11
32	A model of the circadian clock in the cyanobacterium <i>Cyanothece</i> sp. ATCC 51142. <i>BMC Bioinformatics</i> , <b>2013</b> , 14 Suppl 2, S14	3.6	3
31	Metabolic flux analysis of <i>Cyanothece</i> sp. ATCC 51142 under mixotrophic conditions. <i>Photosynthesis Research</i> , <b>2013</b> , 118, 191-8	3.7	37
30	Association of N-acetyltransferase 2 and cytochrome P450 2E1 gene polymorphisms with antituberculosis drug-induced hepatotoxicity in Western India. <i>Journal of Gastroenterology and Hepatology (Australia)</i> , <b>2013</b> , 28, 1368-74	4	40
29	Metabolic modeling for multi-objective optimization of ethanol production in a <i>Synechocystis</i> mutant. <i>Photosynthesis Research</i> , <b>2013</b> , 118, 155-65	3.7	16
28	SHARP: genome-scale identification of gene-protein-reaction associations in cyanobacteria. <i>Photosynthesis Research</i> , <b>2013</b> , 118, 181-90	3.7	5
27	Model based optimization of high cell density cultivation of nitrogen-fixing cyanobacteria. <i>Bioresource Technology</i> , <b>2013</b> , 148, 228-33	11	22
26	A global analysis of adaptive evolution of operons in cyanobacteria. <i>Antonie Van Leeuwenhoek</i> , <b>2013</b> , 103, 331-46	2.1	19
25	Rhythm of carbon and nitrogen fixation in unicellular cyanobacteria under turbulent and highly aerobic conditions. <i>Biotechnology and Bioengineering</i> , <b>2013</b> , 110, 2371-9	4.9	20
24	Rhythmic and sustained oscillations in metabolism and gene expression of <i>Cyanothece</i> sp. ATCC 51142 under constant light. <i>Frontiers in Microbiology</i> , <b>2013</b> , 4, 374	5.7	11

23	Association of GST null genotypes with anti-tuberculosis drug induced hepatotoxicity in Western Indian population. <i>Annals of Hepatology</i> , <b>2013</b> , 12, 959-965	3.1	18
22	Assessment of the metabolic capacity and adaptability of aromatic hydrocarbon degrading strain <i>Pseudomonas putida</i> CSV86 in aerobic chemostat culture. <i>Bioresource Technology</i> , <b>2012</b> , 114, 484-91	11	11
21	Correlation between pellet morphology and glycopeptide antibiotic balhimycin production by <i>Amycolatopsis balhimycina</i> DSM 5908. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2012</b> , 39, 27-35	4.2	14
20	Local and Global Algorithms for Learning Dynamic Bayesian Networks <b>2012</b> ,		3
19	Drug discovery against H1N1 virus (influenza A virus) via computational virtual screening approach. <i>Medicinal Chemistry Research</i> , <b>2011</b> , 20, 1445-1449	2.2	10
18	Studies on toxicity of antitubercular drugs namely isoniazid, rifampicin, and pyrazinamide in an in vitro model of HepG2 cell line. <i>Medicinal Chemistry Research</i> , <b>2011</b> , 20, 1611-1615	2.2	38
17	Role of extracellular protease in nitrogen substrate management during antibiotic fermentation: a process model and experimental validation. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 91, 1019-28	5.7	1
16	Multi-objective optimization of glycopeptide antibiotic production in batch and fed batch processes. <i>Bioresource Technology</i> , <b>2011</b> , 102, 6951-8	11	14
15	Dynamics of rate limiting enzymes involved in the sequential substrate uptake by <i>Pseudomonas putida</i> CSV86: Modeling and experimental validation. <i>Process Biochemistry</i> , <b>2011</b> , 46, 701-708	4.8	3
14	Sequential utilization of substrates by <i>Pseudomonas putida</i> CSV86: signatures of intermediate metabolites and online measurements. <i>Microbiological Research</i> , <b>2009</b> , 164, 429-37	5.3	12
13	Megacell phenotype and its relation to metabolic alterations in transketolase deficient strain of <i>Bacillus pumilus</i> . <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 102, 1387-97	4.9	8
12	Real time phase detection based online monitoring of batch fermentation processes. <i>Process Biochemistry</i> , <b>2009</b> , 44, 799-811	4.8	28
11	Combined effects of carbon, nitrogen and phosphorus substrates on D-ribose production via transketolase deficient strain of <i>Bacillus pumilus</i> . <i>Journal of Chemical Technology and Biotechnology</i> , <b>2008</b> , 83, 1110-1119	3.5	8
10	Protein structure classification using geometric invariants and dynamic programming. <i>Protein and Peptide Letters</i> , <b>2007</b> , 14, 658-64	1.9	
9	Detection of phase shifts in batch fermentation via statistical analysis of the online measurements: a case study with rifamycin B fermentation. <i>Journal of Biotechnology</i> , <b>2007</b> , 132, 156-66	3.7	29
8	A cybernetic model to predict the effect of freely available nitrogen substrate on rifamycin B production in complex media. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 72, 662-70	5.7	12
7	Structured kinetic model to represent the utilization of multiple substrates in complex media during rifamycin B fermentation. <i>Biotechnology and Bioengineering</i> , <b>2006</b> , 93, 779-90	4.9	27
6	Phase shifts in the stoichiometry of rifamycin B fermentation and correlation with the trends in the parameters measured online. <i>Journal of Biotechnology</i> , <b>2006</b> , 127, 115-28	3.7	11

5	Hierarchical amino acid utilization and its influence on fermentation dynamics: rifamycin B fermentation using <i>Amycolatopsis mediterranei</i> S699, a case study. <i>Microbial Cell Factories</i> , <b>2006</b> , 5, 32	6.4	12
4	Functional sites in protein families uncovered via an objective and automated graph theoretic approach. <i>Journal of Molecular Biology</i> , <b>2003</b> , 326, 955-78	6.5	88
3	Horseradish peroxidase catalyzed degradation of industrially important dyes. <i>Biotechnology and Bioengineering</i> , <b>2001</b> , 72, 562-567	4.9	160
2	Lipase-Catalyzed Esterification. <i>Catalysis Reviews - Science and Engineering</i> , <b>2000</b> , 42, 439-480	12.6	133
1	A plug-and-play system for enzyme production at commercially viable levels in fed-batch cultures of <i>Escherichia coli</i> BL21 (DE3)		1