

Pramod P Wangikar

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.

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	Extremophilic micro-algae and their potential contribution in biotechnology. <i>Bioresource Technology</i> , 2015 , 184, 363-372	11	163
75	Horseradish peroxidase catalyzed degradation of industrially important dyes. <i>Biotechnology and Bioengineering</i> , 2001 , 72, 562-567	4.9	160
74	Lipase-Catalyzed Esterification. <i>Catalysis Reviews - Science and Engineering</i> , 2000 , 42, 439-480	12.6	133
73	Cyanobacteria: Promising biocatalysts for sustainable chemical production. <i>Journal of Biological Chemistry</i> , 2018 , 293, 5044-5052	5.4	127
72	Functional sites in protein families uncovered via an objective and automated graph theoretic approach. <i>Journal of Molecular Biology</i> , 2003 , 326, 955-78	6.5	88
71	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> , 2018 , 8, 16632	4.9	60
70	Metabolic model of <i>Synechococcus</i> sp. PCC 7002: Prediction of flux distribution and network modification for enhanced biofuel production. <i>Bioresource Technology</i> , 2016 , 213, 190-197	11	59
69	Rerouting of carbon flux in a glycogen mutant of cyanobacteria assessed via isotopically non-stationary C metabolic flux analysis. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 2298-2308	4.9	51
68	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> , 2018 , 30, 28-37	5	51
67	Recent advances in synthetic biology of cyanobacteria. <i>Applied Microbiology and Biotechnology</i> , 2018 , 102, 5457-5471	5.7	50
66	Challenges and opportunities for microalgae-mediated CO ₂ capture and biorefinery. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 1281-96	4.9	41
65	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> , 2013 , 28, 1368-74	4	40
64	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> , 2011 , 20, 1611-1615	2.2	38
63	Metabolic flux analysis of <i>Cyanothece</i> sp. ATCC 51142 under mixotrophic conditions. <i>Photosynthesis Research</i> , 2013 , 118, 191-8	3.7	37
62	Optimization of high cell density fermentation process for recombinant nitrilase production in <i>E. coli</i> . <i>Bioresource Technology</i> , 2015 , 188, 202-8	11	31
61	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> , 2020 , 10, 191	4.9	29
60	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> , 2007 , 132, 156-66	3.7	29

59	Real time phase detection based online monitoring of batch fermentation processes. <i>Process Biochemistry</i> , 2009 , 44, 799-811	4.8	28
58	Structured kinetic model to represent the utilization of multiple substrates in complex media during rifamycin B fermentation. <i>Biotechnology and Bioengineering</i> , 2006 , 93, 779-90	4.9	27
57	Effect of high CO ₂ concentrations on the growth and macromolecular composition of a heat- and high-light-tolerant microalga. <i>Journal of Applied Phycology</i> , 2016 , 28, 2631-2640	3.2	26
56	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> , 2018 , 90, 6486-6493	7.8	25
55	Model based optimization of high cell density cultivation of nitrogen-fixing cyanobacteria. <i>Bioresource Technology</i> , 2013 , 148, 228-33	11	22
54	Rhythm of carbon and nitrogen fixation in unicellular cyanobacteria under turbulent and highly aerobic conditions. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2371-9	4.9	20
53	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> , 2019 , 8, 1219-1223	5.7	19
52	A global analysis of adaptive evolution of operons in cyanobacteria. <i>Antonie Van Leeuwenhoek</i> , 2013 , 103, 331-46	2.1	19
51	Development of biotransformation process for asymmetric reduction with novel anti-Prelog NADH-dependent alcohol dehydrogenases. <i>Process Biochemistry</i> , 2018 , 70, 71-78	4.8	18
50	Association of GST null genotypes with anti-tuberculosis drug induced hepatotoxicity in Western Indian population. <i>Annals of Hepatology</i> , 2013 , 12, 959-965	3.1	18
49	Metabolic modeling for multi-objective optimization of ethanol production in a <i>Synechocystis</i> mutant. <i>Photosynthesis Research</i> , 2013 , 118, 155-65	3.7	16
48	The role of systems biology in developing non-model cyanobacteria as hosts for chemical production. <i>Current Opinion in Biotechnology</i> , 2020 , 64, 62-69	11.4	16
47	A Library of Tunable, Portable, and Inducer-Free Promoters Derived from Cyanobacteria. <i>ACS Synthetic Biology</i> , 2020 , 9, 1790-1801	5.7	15
46	Photosynthetic Co-Production of Succinate and Ethylene in A Fast-Growing Cyanobacterium, PCC 11801. <i>Metabolites</i> , 2020 , 10,	5.6	15
45	Metabolic engineering of a fast-growing cyanobacterium PCC 11801 for photoautotrophic production of succinic acid. <i>Biotechnology for Biofuels</i> , 2020 , 13, 89	7.8	15
44	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> , 2019 , 9, 6257	4.9	14
43	Correlation between pellet morphology and glycopeptide antibiotic balhimycin production by <i>Amycolatopsis balhimycina</i> DSM 5908. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012 , 39, 27-35	4.2	14
42	Multi-objective optimization of glycopeptide antibiotic production in batch and fed batch processes. <i>Bioresource Technology</i> , 2011 , 102, 6951-8	11	14

41	The effect of CO in enhancing photosynthetic cofactor recycling for alcohol dehydrogenase mediated chiral synthesis in cyanobacteria. <i>Journal of Biotechnology</i> , 2019 , 289, 1-6	3.7	14
40	An improved method for extraction of polar and charged metabolites from cyanobacteria. <i>PLoS ONE</i> , 2018 , 13, e0204273	3.7	13
39	Sequential utilization of substrates by <i>Pseudomonas putida</i> CSV86: signatures of intermediate metabolites and online measurements. <i>Microbiological Research</i> , 2009 , 164, 429-37	5.3	12
38	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> , 2006 , 72, 662-70	5.7	12
37	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> , 2006 , 5, 32	6.4	12
36	Association of genetic variants with anti-tuberculosis drug induced hepatotoxicity: a high resolution melting analysis. <i>Infection, Genetics and Evolution</i> , 2014 , 23, 42-8	4.5	11
35	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> , 2012 , 114, 484-91	11	11
34	Diurnal rhythm of a unicellular diazotrophic cyanobacterium under mixotrophic conditions and elevated carbon dioxide. <i>Photosynthesis Research</i> , 2013 , 118, 51-7	3.7	11
33	Rhythmic and sustained oscillations in metabolism and gene expression of <i>Cyanothece</i> sp. ATCC 51142 under constant light. <i>Frontiers in Microbiology</i> , 2013 , 4, 374	5.7	11
32	Phase shifts in the stoichiometry of rifamycin B fermentation and correlation with the trends in the parameters measured online. <i>Journal of Biotechnology</i> , 2006 , 127, 115-28	3.7	11
31	Drug discovery against H1N1 virus (influenza A virus) via computational virtual screening approach. <i>Medicinal Chemistry Research</i> , 2011 , 20, 1445-1449	2.2	10
30	Mass Isotopologue Distribution of dimer ion adducts of intracellular metabolites for potential applications in ¹³ C Metabolic Flux Analysis. <i>PLoS ONE</i> , 2019 , 14, e0220412	3.7	8
29	Megacell phenotype and its relation to metabolic alterations in transketolase deficient strain of <i>Bacillus pumilus</i> . <i>Biotechnology and Bioengineering</i> , 2009 , 102, 1387-97	4.9	8
28	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> , 2008 , 83, 1110-1119	3.5	8
27	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> , 2020 , 32, 189-204	3.3	8
26	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> , 2021 , 131, 491-500	3.3	8
25	Dynamic Inventory of Intermediate Metabolites of Cyanobacteria in a Diurnal Cycle. <i>IScience</i> , 2020 , 23, 101704	6.1	7
24	Gene essentiality, conservation index and co-evolution of genes in cyanobacteria. <i>PLoS ONE</i> , 2017 , 12, e0178565	3.7	6

23	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> , 2015 , 10, e0125148	3.7	6
22	SHARP: genome-scale identification of gene-protein-reaction associations in cyanobacteria. <i>Photosynthesis Research</i> , 2013 , 118, 181-90	3.7	5
21	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> , 2015 , 188, 145-52	11	5
20	Rhythmic oscillations in KaiC1 phosphorylation and ATP/ADP ratio in nitrogen-fixing cyanobacterium <i>Cyanothece</i> sp. ATCC 51142. <i>Biological Rhythm Research</i> , 2016 , 47, 285-301	0.8	3
19	A model of the circadian clock in the cyanobacterium <i>Cyanothece</i> sp. ATCC 51142. <i>BMC Bioinformatics</i> , 2013 , 14 Suppl 2, S14	3.6	3
18	Local and Global Algorithms for Learning Dynamic Bayesian Networks 2012 ,		3
17	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> , 2011 , 46, 701-708	4.8	3
16	Cyanobacteria as cell factories: the roles of host and pathway engineering and translational research. <i>Current Opinion in Biotechnology</i> , 2021 , 73, 314-322	11.4	3
15	Expanding the repertoire of nitrilases with broad substrate specificity and high substrate tolerance for biocatalytic applications. <i>Process Biochemistry</i> , 2020 , 94, 289-296	4.8	3
14	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> , 2020 , 10, e00120	6.5	3
13	Characterization and Application of a Robust Glucose Dehydrogenase from for Cofactor Regeneration in Biocatalysis. <i>Indian Journal of Microbiology</i> , 2020 , 60, 87-95	3.7	2
12	CFD analysis of the flow dynamics of microorganisms in dilute cultures in stirred tank photobioreactors. <i>Bioresource Technology Reports</i> , 2018 , 3, 238-246	4.1	2
11	Liquid Chromatography Methods for Separation of Polar and Charged Intracellular Metabolites for C Metabolic Flux Analysis. <i>Methods in Molecular Biology</i> , 2020 , 2088, 33-50	1.4	2
10	A method to compute instantaneous oxygen evolution rates in cyanobacterial cultures grown in shake flasks. <i>Engineering Reports</i> , 2020 , 2, e12094	1.2	1
9	Role of extracellular protease in nitrogen substrate management during antibiotic fermentation: a process model and experimental validation. <i>Applied Microbiology and Biotechnology</i> , 2011 , 91, 1019-28	5.7	1
8	Metabolic engineering of cyanobacteria for production of platform chemicals: A synthetic biology approach 2020 , 127-145		1
7	High cell density cultivation of in shake flasks for the production of recombinant proteins.. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2022 , 33, e00694	5.3	1
6	A plug-and-play system for enzyme production at commercially viable levels in fed-batch cultures of <i>Escherichia coli</i> BL21 (DE3)		1

5	SWATH: A Data-Independent Tandem Mass Spectrometry Method to Quantify C Enrichment in Cellular Metabolites and Fragments. <i>Methods in Molecular Biology</i> , 2020 , 2088, 189-204	1.4	1
4	Traits of Fast-Growing Cyanobacteria 2021 , 441-476		0
3	Protein structure classification using geometric invariants and dynamic programming. <i>Protein and Peptide Letters</i> , 2007 , 14, 658-64	1.9	
2	Cyanobacteria as a renewable resource for biofuel production 2022 , 475-499		
1	Transporter engineering for the development of cyanobacteria as cell factories: A text analytics guided survey. <i>Biotechnology Advances</i> , 2021 , 107816	17.8	