

# Pavel Dvořák

## List of Publications by Year in descending order

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Version: 2024-02-01

17  
papers

1,103  
citations

623734

14  
h-index

888059

17  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1386  
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyhydroxyalkanoates synthesis by halophiles and thermophiles: towards sustainable production of microbial bioplastics. <i>Biotechnology Advances</i> , 2022, 58, 107906.	11.7	46
2	An updated structural model of the A domain of the <i>Pseudomonas putida</i> XylR regulator poses an atypical interplay with aromatic effectors. <i>Environmental Microbiology</i> , 2021, 23, 4418-4433.	3.8	2
3	An automated DIY framework for experimental evolution of <i>Pseudomonas putida</i> . <i>Microbial Biotechnology</i> , 2020, 14, 2679-2685.	4.2	5
4	Surface Display of Designer Protein Scaffolds on Genome-Reduced Strains of <i>Pseudomonas putida</i> . <i>ACS Synthetic Biology</i> , 2020, 9, 2749-2764.	3.8	16
5	Biotransformation of <i>D</i> -xylose to <i>D</i> -xylonate coupled to medium-chain-length polyhydroxyalkanoate production in cellobiose-grown <i>Pseudomonas putida</i> EM42. <i>Microbial Biotechnology</i> , 2020, 13, 1273-1283.	4.2	20
6	Computational Modelling of Metabolic Burden and Substrate Toxicity in <i>Escherichia coli</i> Carrying a Synthetic Metabolic Pathway. <i>Microorganisms</i> , 2019, 7, 553.	3.6	9
7	Exploration of Enzyme Diversity by Integrating Bioinformatics with Expression Analysis and Biochemical Characterization. <i>ACS Catalysis</i> , 2018, 8, 2402-2412.	11.2	58
8	Computer-assisted engineering of hyperstable fibroblast growth factor 2. <i>Biotechnology and Bioengineering</i> , 2018, 115, 850-862.	3.3	49
9	Refactoring the upper sugar metabolism of <i>Pseudomonas putida</i> for co-utilization of cellobiose, xylose, and glucose. <i>Metabolic Engineering</i> , 2018, 48, 94-108.	7.0	86
10	Bioremediation 3.0: Engineering pollutant-removing bacteria in the times of systemic biology. <i>Biotechnology Advances</i> , 2017, 35, 845-866.	11.7	240
11	Engineering a de Novo Transport Tunnel. <i>ACS Catalysis</i> , 2016, 6, 7597-7610.	11.2	84
12	Exacerbation of substrate toxicity by IPTG in <i>Escherichia coli</i> BL21(DE3) carrying a synthetic metabolic pathway. <i>Microbial Cell Factories</i> , 2015, 14, 201.	4.0	145
13	Maximizing the Efficiency of Multienzyme Process by Stoichiometry Optimization. <i>ChemBioChem</i> , 2014, 15, 1891-1895.	2.6	31
14	Immobilized Synthetic Pathway for Biodegradation of Toxic Recalcitrant Pollutant 1,2,3-Trichloropropane. <i>Environmental Science &amp; Technology</i> , 2014, 48, 6859-6866.	10.0	54
15	Computer-Assisted Engineering of the Synthetic Pathway for Biodegradation of a Toxic Persistent Pollutant. <i>ACS Synthetic Biology</i> , 2014, 3, 172-181.	3.8	39
16	Haloalkane dehalogenases: Biotechnological applications. <i>Biotechnology Journal</i> , 2013, 8, 32-45.	3.5	126
17	Pathways and Mechanisms for Product Release in the Engineered Haloalkane Dehalogenases Explored Using Classical and Random Acceleration Molecular Dynamics Simulations. <i>Journal of Molecular Biology</i> , 2009, 392, 1339-1356.	4.2	89