Pavel DvoÅÃ¡k

List of Publications by Year
in descending order

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