

Astrid Wirtz

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

657
citations

840776

11
h-index

713466

21
g-index

22
all docs

22
docs citations

22
times ranked

1047
citing authors

#	ARTICLE	IF	CITATIONS
1	Ammonium Toxicity in Bacteria. <i>Current Microbiology</i> , 2006, 52, 400-406.	2.2	167
2	Vanillate Metabolism in <i>Corynebacterium glutamicum</i> . <i>Current Microbiology</i> , 2005, 51, 59-65.	2.2	99
3	TREX: A Universal Tool for the Transfer and Expression of Biosynthetic Pathways in Bacteria. <i>ACS Synthetic Biology</i> , 2013, 2, 22-33.	3.8	76
4	Mutual Exchange of Kinetic Properties by Extended Mutagenesis in Two Short LOV Domain Proteins from <i>Pseudomonas putida</i> . <i>Biochemistry</i> , 2009, 48, 10321-10333.	2.5	55
5	Discovery of the first light-dependent protochlorophyllide oxidoreductase in anoxygenic phototrophic bacteria. <i>Molecular Microbiology</i> , 2014, 93, 1066-1078.	2.5	44
6	Structure and function of a short LOV protein from the marine phototrophic bacterium <i>Dinoroseobacter shibae</i> . <i>BMC Microbiology</i> , 2015, 15, 30.	3.3	36
7	Structure elucidation of the thermal degradation products of the nucleotide cofactors NADH and NADPH by nano-ESI-FTICR-MS and HPLC-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 2803-2811.	3.7	31
8	Mutation-induced metabolite pool alterations in <i>Corynebacterium glutamicum</i> : Towards the identification of nitrogen control signals. <i>Journal of Biotechnology</i> , 2006, 126, 440-453.	3.8	20
9	Factors influencing the operational stability of NADPH-dependent alcohol dehydrogenase and an NADH-dependent variant thereof in gas/solid reactors. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010, 67, 271-283.	1.8	18
10	Fusion of a Flavin-Based Fluorescent Protein to Hydroxynitrile Lyase from <i>Arabidopsis thaliana</i> Improves Enzyme Stability. <i>Applied and Environmental Microbiology</i> , 2013, 79, 4727-4733.	3.1	14
11	Purification and simultaneous immobilization of <i>Arabidopsis thaliana</i> hydroxynitrile lyase using a family 2 carbohydrate-binding module. <i>Biotechnology Journal</i> , 2015, 10, 811-819.	3.5	13
12	Novel plasmid-free <i>Gluconobacter oxydans</i> strains for production of the natural sweetener 5-ketofructose. <i>Microbial Cell Factories</i> , 2020, 19, 54.	4.0	12
13	Cofactor Trapping, a New Method To Produce Flavin Mononucleotide. <i>Applied and Environmental Microbiology</i> , 2011, 77, 1097-1100.	3.1	11
14	Functional expression, purification, and biochemical properties of subtilase SprP from <i>Pseudomonas aeruginosa</i> . <i>MicrobiologyOpen</i> , 2015, 4, 743-752.	3.0	11
15	Regulation of $\hat{1}^3$ -Aminobutyrate (GABA) Utilization in <i>Corynebacterium glutamicum</i> by the PucR-Type Transcriptional Regulator GabR and by Alternative Nitrogen and Carbon Sources. <i>Frontiers in Microbiology</i> , 2020, 11, 544045.	3.5	10
16	Metabolic engineering of <i>Corynebacterium glutamicum</i> for production of scyllo-inositol, a drug candidate against Alzheimer's disease. <i>Metabolic Engineering</i> , 2021, 67, 173-185.	7.0	10
17	Large-scale Enzymatic Synthesis of 12-Ketoursodeoxycholic Acid from Dehydrocholic Acid by Simultaneous Combination of $3\hat{1}^{\pm}$ -Hydroxysteroid Dehydrogenase from <i>Pseudomonas testosteroni</i> and $7\hat{1}^2$ -Hydroxysteroid Dehydrogenase from <i>Collinsella aerofaciens</i> . <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2012, 67, 1037-1044.	0.7	9
18	Production of C20, C30 and C40 terpenes in the engineered phototrophic bacterium <i>Rhodobacter capsulatus</i> . <i>Journal of Biotechnology</i> , 2021, 338, 20-30.	3.8	9

#	ARTICLE	IF	CITATIONS
19	Biosensor-based isolation of amino acid-producing <i>Vibrio natriegens</i> strains. <i>Metabolic Engineering Communications</i> , 2021, 13, e00187.	3.6	5
20	Metabolic engineering of <i>Pseudomonas putida</i> for production of the natural sweetener 5-ketofructose from fructose or sucrose by periplasmic oxidation with a heterologous fructose dehydrogenase. <i>Microbial Biotechnology</i> , 2021, 14, 2592-2604.	4.2	4
21	Genome Sequence of the Bacteriophage CL31 and Interaction with the Host Strain <i>Corynebacterium glutamicum</i> ATCC 13032. <i>Viruses</i> , 2021, 13, 495.	3.3	3