Astrid Wirtz

List of Publications by Year
in descending order

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	Genome Sequence of the Bacteriophage CL31 and Interaction with the Host Strain Corynebacterium glutamicum ATCC 13032. Viruses, 2021, 13, 495.	3.3	3
2	Metabolic engineering of Pseudomonas putida for production of the natural sweetener 5â€ketofructose from fructose or sucrose by periplasmic oxidation with a heterologous fructose dehydrogenase. Microbial Biotechnology, 2021, 14, 2592-2604.	4.2	4
3	Metabolic engineering of Corynebacterium glutamicum for production of scyllo-inositol, a drug candidate against Alzheimer's disease. Metabolic Engineering, 2021, 67, 173-185.	7.0	10
4	Production of C20, C30 and C40 terpenes in the engineered phototrophic bacterium Rhodobacter capsulatus. Journal of Biotechnology, 2021, 338, 20-30.	3.8	9
5	Biosensor-based isolation of amino acid-producing Vibrio natriegens strains. Metabolic Engineering Communications, 2021, 13, e00187.	3.6	5
6	Regulation of Î³-Aminobutyrate (GABA) Utilization in Corynebacterium glutamicum by the PucR-Type Transcriptional Regulator GabR and by Alternative Nitrogen and Carbon Sources. Frontiers in Microbiology, 2020, 11, 544045.	3.5	10
7	Novel plasmid-free Gluconobacter oxydans strains for production of the natural sweetener 5-ketofructose. Microbial Cell Factories, 2020, 19, 54.	4.0	12
8	Functional expression, purification, and biochemical properties of subtilase SprP from Pseudomonas aeruginosa. MicrobiologyOpen, 2015, 4, 743-752.	3.0	11
9	Purification and simultaneous immobilization of Arabidopsis thaliana hydroxynitrile lyase using a family 2 carbohydrateâ€binding module. Biotechnology Journal, 2015, 10, 811-819.	3.5	13
10	Structure and function of a short LOV protein from the marine phototrophic bacterium Dinoroseobacter shibae. BMC Microbiology, 2015, 15, 30.	3.3	36
11	Discovery of the first lightâ€dependent protochlorophyllide oxidoreductase in anoxygenic phototrophic bacteria. Molecular Microbiology, 2014, 93, 1066-1078.	2.5	44
12	TREX: A Universal Tool for the Transfer and Expression of Biosynthetic Pathways in Bacteria. ACS Synthetic Biology, 2013, 2, 22-33.	3.8	76
13	Fusion of a Flavin-Based Fluorescent Protein to Hydroxynitrile Lyase from Arabidopsis thaliana Improves Enzyme Stability. Applied and Environmental Microbiology, 2013, 79, 4727-4733.	3.1	14
14	Large-scale Enzymatic Synthesis of 12-Ketoursodeoxycholic Acid from Dehydrocholic Acid by Simultaneous Combination of 3Î±-Hydroxysteroid Dehydrogenase from Pseudomonas testosteroni and 7Î²-Hydroxysteroid Dehydrogenase from Collinsella aerofaciens. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2012, 67, 1037-1044.	0.7	9
15	Cofactor Trapping, a New Method To Produce Flavin Mononucleotide. Applied and Environmental Microbiology, 2011, 77, 1097-1100.	3.1	11
16	Structure elucidation of the thermal degradation products of the nucleotide cofactors NADH and NADPH by nano-ESI-FTICR-MS and HPLC-MS. Analytical and Bioanalytical Chemistry, 2010, 398, 2803-2811.	3.7	31
17	Factors influencing the operational stability of NADPH-dependent alcohol dehydrogenase and an NADH-dependent variant thereof in gas/solid reactors. Journal of Molecular Catalysis B: Enzymatic, 2010, 67, 271-283.	1.8	18
18	Mutual Exchange of Kinetic Properties by Extended Mutagenesis in Two Short LOV Domain Proteins from Pseudomonas putida. Biochemistry, 2009, 48, 10321-10333.	2.5	55

#	Article	IF	Citations
19	Mutation-induced metabolite pool alterations in Corynebacterium glutamicum: Towards the identification of nitrogen control signals. Journal of Biotechnology, 2006, 126, 440-453.	3.8	20
20	Ammonium Toxicity in Bacteria. Current Microbiology, 2006, 52, 400-406.	2.2	167
21	Vanillate Metabolism in Corynebacterium glutamicum. Current Microbiology, 2005, 51, 59-65.	2.2	99