Santosh Kumar Padhi

List of Publications by Year
in descending order

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23 papers	839 citations	687363 13 h-index	642732 23 g-index
25 all docs	25 docs citations	25 times ranked	907 citing authors

#	Article	IF	Citations
1	Enzyme engineering improves catalytic efficiency and enantioselectivity of hydroxynitrile lyase for promiscuous retro-nitroaldolase activity. Bioorganic Chemistry, 2022, 120, 105594.	4.1	7
2	Immobilized Arabidopsis thaliana Hydroxynitrile Lyase-Catalyzed Retro-Henry Reaction in the Synthesis of (S)-Î²-Nitroalcohols. Applied Biochemistry and Biotechnology, 2021, 193, 560-576.	2.9	10
3	Oneâ€Pot Enzyme Cascade Catalyzed Asymmetrization of Primary Alcohols: Synthesis of Enantiocomplementary Chiral Î²â€Nitroalcohols. Advanced Synthesis and Catalysis, 2021, 363, 5310-5318.	4.3	8
4	Biocatalytic approaches for enantio and diastereoselective synthesis of chiral Î²-nitroalcohols. Organic and Biomolecular Chemistry, 2021, 19, 322-337.	2.8	15
5	A study on increasing enzymatic stability and activity of Baliospermum montanum hydroxynitrile lyase in biocatalysis. Process Biochemistry, 2020, 88, 78-89.	3.7	5
6	An Ultrasensitive Fluorescence Assay for the Detection of Halides and Enzymatic Dehalogenation. ChemCatChem, 2020, 12, 2032-2039.	3.7	9
7	Production of (S)â€Î²â€Nitro Alcohols by Enantioselective Câ^'C Bond Cleavage with an Râ€Selective Hydroxynitrile Lyase. ChemBioChem, 2019, 20, 371-378.	2.6	13
8	Immobilized Baliospermum montanum hydroxynitrile lyase catalyzed synthesis of chiral cyanohydrins. Bioorganic Chemistry, 2019, 84, 32-40.	4.1	12
9	Baliospermum montanum hydroxynitrile lyase catalyzed synthesis of chiral cyanohydrins in a biphasic solvent. Biocatalysis and Agricultural Biotechnology, 2018, 16, 229-236.	3.1	7
10	Modern Approaches to Discovering New Hydroxynitrile Lyases for Biocatalysis. ChemBioChem, 2017, 18, 152-160.	2.6	14
11	Candida parapsilosis: A versatile biocatalyst for organic oxidation-reduction reactions. Bioorganic Chemistry, 2016, 68, 187-213.	4.1	22
12	Uncovering divergent evolution of Î±/Î²-hydrolases: a surprising residue substitution needed to convert Hevea brasiliensis hydroxynitrile lyase into an esterase. Chemical Science, 2014, 5, 4265-4277.	7.4	16
13	Lipase-catalyzed transesterification to remove saturated MAG from biodiesel. European Journal of Lipid Science and Technology, 2012, 114, 875-879.	1.5	8
14	Altering the scissile fatty acid binding site of Candida antarctica lipase A by protein engineering for the selective hydrolysis of medium chain fatty acids. European Journal of Lipid Science and Technology, 2012, 114, 1148-1153.	1.5	37
15	Discovery and Protein Engineering of Biocatalysts for Organic Synthesis. Advanced Synthesis and Catalysis, 2011, 353, 2191-2215.	4.3	86
16	Protein Engineering of Î±/Î²â€Hydrolase Fold Enzymes. ChemBioChem, 2011, 12, 1508-1517.	2.6	92
17	The Î±/Î²â€Hydrolase Fold 3DM Database (ABHDB) as a Tool for Protein Engineering. ChemBioChem, 2010, 11, 1635-1643.	2.6	126
18	Switching from an Esterase to a Hydroxynitrile Lyase Mechanism Requires Only Two Amino Acid Substitutions. Chemistry and Biology, 2010, 17, 863-871.	6.0	48

#	Article	IF	Citations
19	Site-Saturation Mutagenesis of Tryptophan 116 of Saccharomyces pastorianus Old Yellow Enzyme Uncovers Stereocomplementary Variants. Journal of the American Chemical Society, 2009, 131, 3271-3280.	13.7	140
20	Reductions of cyclic Î²-keto esters by individual Saccharomyces cerevisiae dehydrogenases and a chemo-enzymatic route to (1R,2S)-2-methyl-1-cyclohexanol. Tetrahedron: Asymmetry, 2007, 18, 2133-2138.	1.8	25
21	Deracemisation of Î²-hydroxy esters using immobilised whole cells of Candida parapsilosis ATCC 7330: substrate specificity and mechanistic investigation. Tetrahedron, 2006, 62, 5133-5140.	1.9	48
22	Deracemisation of aromatic Î²-hydroxy esters using immobilised whole cells of Candida parapsilosis ATCC 7330 and determination of absolute configuration by 1H NMR. Tetrahedron: Asymmetry, 2005, 16, 2790-2798.	1.8	44
23	Microbial deracemisation of aromatic Î²-hydroxy acid esters. Journal of Molecular Catalysis B: Enzymatic, 2004, 29, 25-29.	1.8	47