Alexander Gutmann

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7991570/publications.pdf

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22 papers	1,033 citations	516710 16 h-index	642732 23 g-index
24 all docs	24 docs citations	24 times ranked	1137 citing authors

#	Article	IF	Citations
1	Sucrose synthase: A unique glycosyltransferase for biocatalytic glycosylation process development. Biotechnology Advances, 2016, 34, 88-111.	11.7	141
2	Leloir Glycosyltransferases as Biocatalysts for Chemical Production. ACS Catalysis, 2018, 8, 6283-6300.	11.2	133
3	Leloir Glycosyltransferases and Natural Product Glycosylation: Biocatalytic Synthesis of the Câ€Glucoside Nothofagin, a Major Antioxidant of Redbush Herbal Tea. Advanced Synthesis and Catalysis, 2013, 355, 2757-2763.	4.3	93
4	Oxidation of Monolignols by Members of the Berberine Bridge Enzyme Family Suggests a Role in Plant Cell Wall Metabolism. Journal of Biological Chemistry, 2015, 290, 18770-18781.	3.4	83
5	Switching between Oâ€and Câ€Glycosyltransferase through Exchange of Activeâ€Site Motifs. Angewandte Chemie - International Edition, 2012, 51, 12879-12883.	13.8	69
6	Creating a Waterâ€Soluble Resveratrolâ€Based Antioxidant by Siteâ€Selective Enzymatic Glucosylation. ChemBioChem, 2015, 16, 1870-1874.	2.6	68
7	Towards the synthesis of glycosylated dihydrochalcone natural products using glycosyltransferase-catalysed cascade reactions. Green Chemistry, 2014, 16, 4417-4425.	9.0	52
8	Screening of recombinant glycosyltransferases reveals the broad acceptor specificity of stevia UGT-76G1. Journal of Biotechnology, 2016, 233, 49-55.	3.8	43
9	Integrated process design for biocatalytic synthesis by a Leloir Glycosyltransferase: UDPâ€glucose production with sucrose synthase. Biotechnology and Bioengineering, 2017, 114, 924-928.	3.3	43
10	Unlocking the Potential of Leloir Glycosyltransferases for Applied Biocatalysis: Efficient Synthesis of Uridine 5â€²â€Diphosphateâ€Glucose by Sucrose Synthase. Advanced Synthesis and Catalysis, 2016, 358, 3600-3609.	4.3	41
11	A two-step O- to C-glycosidic bond rearrangement using complementary glycosyltransferase activities. Chemical Communications, 2014, 50, 5465-5468.	4.1	37
12	Glycosyltransferase cascades for natural product glycosylation: Use of plant instead of bacterial sucrose synthases improves the UDPâ€glucose recycling from sucrose and UDP. Biotechnology Journal, 2017, 12, 1600557.	3.5	36
13	Biocatalytic Cascade of Polyphosphate Kinase and Sucrose Synthase for Synthesis of Nucleotideâ€Activated Derivatives of Glucose. Advanced Synthesis and Catalysis, 2017, 359, 292-301.	4.3	30
14	Simple and efficient expression of Agaricus meleagris pyranose dehydrogenase in Pichia pastoris. Applied Microbiology and Biotechnology, 2012, 94, 695-704.	3.6	29
15	Î²â€Cyclodextrin Improves Solubility and Enzymatic Câ€Glucosylation of the Flavonoid Phloretin. Advanced Synthesis and Catalysis, 2016, 358, 486-493.	4.3	27
16	Enzymatic C-glycosylation: Insights from the study of a complementary pair of plant O- and C-glucosyltransferases. Pure and Applied Chemistry, 2013, 85, 1865-1877.	1.9	21
17	Downstream Processing of Nucleosideâ€Diphosphoâ€Sugars from Sucrose Synthase Reaction Mixtures at Decreased Solvent Consumption. Advanced Synthesis and Catalysis, 2016, 358, 3113-3122.	4.3	17
18	Biochemical Characterization and Mechanistic Analysis of the Levoglucosan Kinase from Lipomyces starkeyi. ChemBioChem, 2018, 19, 596-603.	2.6	14

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19	Isotope Probing of the UDPâ€Apiose/UDPâ€Xylose Synthase Reaction: Evidence of a Mechanism via a Coupled Oxidation and Aldol Cleavage. Angewandte Chemie - International Edition, 2017, 56, 2503-2507.	13.8	13
20	An ortho C-methylation/O-glycosylation motif on a hydroxy-coumarin scaffold, selectively installed by biocatalysis. Organic and Biomolecular Chemistry, 2017, 15, 7917-7924.	2.8	11
21	Î²-Glucosyl Fluoride as Reverse Reaction Donor Substrate and Mechanistic Probe of Inverting Sugar Nucleotide-Dependent Glycosyltransferases. ACS Catalysis, 2018, 8, 9148-9153.	11.2	10
22	Sequence determinants of nucleotide binding in Sucrose Synthase: improving the affinity of a bacterial Sucrose Synthase for UDP by introducing plant residues. Protein Engineering, Design and Selection, 2017, 30, 141-148.	2.1	8