

# Alexander Gutmann

## List of Publications by Year in descending order

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22  
papers

1,033  
citations

516710

16  
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642732

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g-index

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24  
docs citations

24  
times ranked

1137  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochemical Characterization and Mechanistic Analysis of the Levoglucosan Kinase from <i>Lipomyces starkeyi</i> . <i>ChemBioChem</i> , 2018, 19, 596-603.	2.6	14
2	$\beta$ -Glucosyl Fluoride as Reverse Reaction Donor Substrate and Mechanistic Probe of Inverting Sugar Nucleotide-Dependent Glycosyltransferases. <i>ACS Catalysis</i> , 2018, 8, 9148-9153.	11.2	10
3	Leloir Glycosyltransferases as Biocatalysts for Chemical Production. <i>ACS Catalysis</i> , 2018, 8, 6283-6300.	11.2	133
4	Sequence determinants of nucleotide binding in Sucrose Synthase: improving the affinity of a bacterial Sucrose Synthase for UDP by introducing plant residues. <i>Protein Engineering, Design and Selection</i> , 2017, 30, 141-148.	2.1	8
5	Isotope Probing of the UDP-Apiose/UDP-Xylose Synthase Reaction: Evidence of a Mechanism via a Coupled Oxidation and Aldol Cleavage. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2503-2507.	13.8	13
6	Biocatalytic Cascade of Polyphosphate Kinase and Sucrose Synthase for Synthesis of Nucleotide-Activated Derivatives of Glucose. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 292-301.	4.3	30
7	Glycosyltransferase cascades for natural product glycosylation: Use of plant instead of bacterial sucrose synthases improves the UDP-glucose recycling from sucrose and UDP. <i>Biotechnology Journal</i> , 2017, 12, 1600557.	3.5	36
8	An ortho C-methylation/O-glycosylation motif on a hydroxy-coumarin scaffold, selectively installed by biocatalysis. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 7917-7924.	2.8	11
9	Integrated process design for biocatalytic synthesis by a Leloir Glycosyltransferase: UDP-glucose production with sucrose synthase. <i>Biotechnology and Bioengineering</i> , 2017, 114, 924-928.	3.3	43
10	Screening of recombinant glycosyltransferases reveals the broad acceptor specificity of stevia UGT-76G1. <i>Journal of Biotechnology</i> , 2016, 233, 49-55.	3.8	43
11	$\beta$ -Cyclodextrin Improves Solubility and Enzymatic C-Glycosylation of the Flavonoid Phloretin. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 486-493.	4.3	27
12	Downstream Processing of Nucleoside-Diphospho-Sugars from Sucrose Synthase Reaction Mixtures at Decreased Solvent Consumption. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3113-3122.	4.3	17
13	Unlocking the Potential of Leloir Glycosyltransferases for Applied Biocatalysis: Efficient Synthesis of Uridine 5'-Diphosphate-Glucose by Sucrose Synthase. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3600-3609.	4.3	41
14	Sucrose synthase: A unique glycosyltransferase for biocatalytic glycosylation process development. <i>Biotechnology Advances</i> , 2016, 34, 88-111.	11.7	141
15	Creating a Water-Soluble Resveratrol-Based Antioxidant by Site-Selective Enzymatic Glucosylation. <i>ChemBioChem</i> , 2015, 16, 1870-1874.	2.6	68
16	Oxidation of Monolignols by Members of the Berberine Bridge Enzyme Family Suggests a Role in Plant Cell Wall Metabolism. <i>Journal of Biological Chemistry</i> , 2015, 290, 18770-18781.	3.4	83
17	A two-step O- to C-glycosidic bond rearrangement using complementary glycosyltransferase activities. <i>Chemical Communications</i> , 2014, 50, 5465-5468.	4.1	37
18	Towards the synthesis of glycosylated dihydrochalcone natural products using glycosyltransferase-catalysed cascade reactions. <i>Green Chemistry</i> , 2014, 16, 4417-4425.	9.0	52

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19	Enzymatic <i>C</i> -glycosylation: Insights from the study of a complementary pair of plant <i>O</i> - and <i>C</i> -glucosyltransferases. <i>Pure and Applied Chemistry</i> , 2013, 85, 1865-1877.	1.9	21
20	Leloir Glycosyltransferases and Natural Product Glycosylation: Biocatalytic Synthesis of the <i>C</i> -Glucoside Nothofagin, a Major Antioxidant of Redbush Herbal Tea. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 2757-2763.	4.3	93
21	Simple and efficient expression of <i>Agaricus meleagris</i> pyranose dehydrogenase in <i>Pichia pastoris</i> . <i>Applied Microbiology and Biotechnology</i> , 2012, 94, 695-704.	3.6	29
22	Switching between <i>O</i> - and <i>C</i> -Glucosyltransferase through Exchange of Active Site Motifs. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12879-12883.	13.8	69