

Konstantin A Shabalin

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Biochemical Analysis of <i>Thermotoga maritima</i> GH36 β -Galactosidase (TmGalA) Confirms the Mechanistic Commonality of Clan GH-D Glycoside Hydrolases. <i>Biochemistry</i> , 2007, 46, 3319-3330.	2.5	87
2	Reaction of 1,2-trans-glycosyl acetates with thiourea: a new entry to 1-thiosugars. <i>Tetrahedron Letters</i> , 2003, 44, 7961-7964.	1.4	74
3	Crystal Structure of β -Galactosidase from <i>Trichoderma reesei</i> and Its Complex with Galactose: Implications for Catalytic Mechanism. <i>Journal of Molecular Biology</i> , 2004, 339, 413-422.	4.2	69
4	Generation, Release, and Uptake of the NAD Precursor Nicotinic Acid Riboside by Human Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 27124-27137.	3.4	68
5	Purification, characterization, gene cloning and preliminary X-ray data of the exo-inulinase from <i>Aspergillus awamori</i> . <i>Biochemical Journal</i> , 2002, 362, 131-135.	3.7	65
6	Enzymatic synthesis of β -xylanase substrates: transglycosylation reactions of the β -xylosidase from <i>Aspergillus sp.</i> . <i>Carbohydrate Research</i> , 2003, 338, 313-325.	2.3	57
7	Klebsazolicin inhibits 70S ribosome by obstructing the peptide exit tunnel. <i>Nature Chemical Biology</i> , 2017, 13, 1129-1136.	8.0	50
8	Cloning of a gluconate/polyol dehydrogenase gene from <i>Gluconobacter suboxydans</i> IFO 12528, characterisation of the enzyme and its use for the production of 5-ketogluconate in a recombinant <i>Escherichia coli</i> strain. <i>Applied Microbiology and Biotechnology</i> , 2004, 65, 306-14.	3.6	40
9	Purification, characterization, gene cloning and preliminary X-ray data of the exo-inulinase from <i>Aspergillus awamori</i> . <i>Biochemical Journal</i> , 2002, 362, 131.	3.7	39
10	Acid protease from <i>Trichoderma reesei</i> : limited proteolysis of fungal carbohydrases. <i>Applied Microbiology and Biotechnology</i> , 1999, 52, 226-231.	3.6	36
11	Biochemical and kinetic analysis of the GH3 family β -xylosidase from <i>Aspergillus awamori</i> X-100. <i>Archives of Biochemistry and Biophysics</i> , 2007, 457, 225-234.	3.0	36
12	Enzymatic properties of β -galactosidase from <i>Trichoderma reesei</i> in the hydrolysis of galactooligosaccharides. <i>Enzyme and Microbial Technology</i> , 2002, 30, 231-239.	3.2	34
13	Isolation, enzymatic properties, and mode of action of an α -exo-1,3- β -glucanase from <i>T. viride</i> . <i>FEBS Journal</i> , 2001, 268, 6123-6131.	0.2	33
14	Degradation of Extracellular NAD ⁺ Intermediates in Cultures of Human HEK293 Cells. <i>Metabolites</i> , 2019, 9, 293.	2.9	32
15	An α -L-fucosidase from <i>Thermus sp.</i> with unusually broad specificity. <i>Glycoconjugate Journal</i> , 2001, 18, 827-834.	2.7	31
16	A Simple and Convenient Synthesis of Glycosyl Azides. <i>Synthetic Communications</i> , 2000, 30, 2819-2823.	2.1	30
17	Transglycosylating and hydrolytic activities of the β -mannosidase from <i>Trichoderma reesei</i> . <i>Biochimie</i> , 2009, 91, 632-638.	2.6	26
18	Enzymatic activity and β -galactomannan binding property of β -mannosidase from <i>Trichoderma reesei</i> . <i>Enzyme and Microbial Technology</i> , 1999, 25, 372-377.	3.2	24

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19	Enzymatic synthesis of 4-methylumbelliferyl (1 α '3)- β -D-glucooligosaccharides—new substrates for β -1,3-1,4-d-glucanase. Carbohydrate Research, 2003, 338, 1455-1467.	2.3	24
20	NAD Metabolome Analysis in Human Cells Using 1H NMR Spectroscopy. International Journal of Molecular Sciences, 2018, 19, 3906.	4.1	24
21	Stereoselective synthesis of thioxylooligosaccharides from S-glycosyl isothiourea precursors. Tetrahedron Letters, 2001, 42, 4565-4567.	1.4	23
22	Chemo-enzymatic synthesis of 4-methylumbelliferyl β -(1 α '4)-D-xylooligosides: new substrates for β -D-xylofuranase assays. Organic and Biomolecular Chemistry, 2005, 3, 146-151.	2.8	23
23	β -Mannosidase from <i>Trichoderma reesei</i> Participates in the Postsecretory Deglycosylation of Glycoproteins. Biochemical and Biophysical Research Communications, 1998, 245, 43-49.	2.1	20
24	Biochemical characterization of <i>Aspergillus awamori</i> exoinulinase: substrate binding characteristics and regioselectivity of hydrolysis. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1650, 22-29.	2.3	20
25	The carbohydrate moiety of alpha-galactosidase from <i>Trichoderma reesei</i> . Glycoconjugate Journal, 1997, 14, 897-905.	2.7	19
26	1-O-Acetyl- β -D-galactopyranose: a novel substrate for the transglycosylation reaction catalyzed by the β -D-galactosidase from <i>Penicillium</i> sp.. Carbohydrate Research, 2002, 337, 635-642.	2.3	18
27	Novel precipitated fluorescent substrates for the screening of cellulolytic microorganisms. Journal of Microbiological Methods, 2009, 76, 295-300.	1.6	14
28	Improvement of the efficiency of transglycosylation catalyzed by β -galactosidase from <i>Thermotoga maritima</i> by protein engineering. Biochemistry (Moscow), 2013, 78, 1112-1123.	1.5	13
29	Structural Insights into the β -Xylosidase from <i>Trichoderma reesei</i> Obtained by Synchrotron Small-Angle X-ray Scattering and Circular Dichroism Spectroscopy. Biochemistry, 2005, 44, 15578-15584.	2.5	12
30	Characterization of a new β -L-fucosidase isolated from <i>Fusarium proliferatum</i> LE1 that is regioselective to β -(1 α '4)-L-fucosidic linkage in the hydrolysis of β -L-fucobiosides. Biochimie, 2017, 132, 54-65.	2.6	11
31	The Action of alpha-Mannosidase from <i>Oerskovia</i> sp. on the Mannose-Rich O-Linked Sugar Chains of Glycoproteins. FEBS Journal, 1997, 249, 286-292.	0.2	10
32	Structural Insights into Interaction between Mammalian Methionine Sulfoxide Reductase B1 and Thioredoxin. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-9.	3.0	10
33	Transferase and hydrolytic activities of the laminarinase from <i>rhodothermus marinus</i> and its M133A, M133C, and M133W mutants. Glycoconjugate Journal, 2006, 23, 501-511.	2.7	8
34	β -Galactobiosyl units: thermodynamics and kinetics of their formation by transglycosylations catalysed by the GH36 β -galactosidase from <i>Thermotoga maritima</i> . Carbohydrate Research, 2015, 401, 115-121.	2.3	6
35	The method of integrated kinetics and its applicability to the exo-glycosidase-catalyzed hydrolysis of p-nitrophenyl glycosides. Carbohydrate Research, 2015, 412, 43-49.	2.3	4
36	Time machine: Can a dye from 1928 be re-purposed for modern, fluorescence-based detection of amyloid-like fibrils?. Dyes and Pigments, 2020, 172, 107863.	3.7	3

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37	Synthesis of arabinitol 1-phosphate and its use for characterization of arabinitolâ€‘phosphate dehydrogenase. Carbohydrate Research, 2005, 340, 539-546.	2.3	2
38	Analysis of NAD and NAD-Dependent Protein Deacetylation in Mouse Tissues. Cell and Tissue Biology, 2018, 12, 491-495.	0.4	1