Pavla BojarovÃ¡

List of Publications by Year
in descending order

73	2,089	236925 25	254184 43
papers	citations	h-index	g-index

80	80	80	1940
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enzymatic Glycosylation of Small Molecules: Challenging Substrates Require Tailored Catalysts. Chemistry - A European Journal, 2012, 18, 10786-10801.	3.3	183
2	Glycosidases: a key to tailored carbohydrates. Trends in Biotechnology, 2009, 27, 199-209.	9.3	152
3	Î²-N-Acetylhexosaminidase: What's in a nameâ€¦?. Biotechnology Advances, 2010, 28, 682-693.	11.7	138
4	Sulfotransferases, sulfatases and formylglycine-generating enzymes: a sulfation fascination. Current Opinion in Chemical Biology, 2008, 12, 573-581.	6.1	91
5	Galectinâ€“Carbohydrate Interactions in Biomedicine and Biotechnology. Trends in Biotechnology, 2019, 37, 402-415.	9.3	77
6	Purification and characterization of a nitrilase from Aspergillus niger K10. Applied Microbiology and Biotechnology, 2006, 73, 567-575.	3.6	76
7	Sugared biomaterial binding lectins: achievements and perspectives. Biomaterials Science, 2016, 4, 1142-1160.	5.4	66
8	Enzymatic glycosylation of multivalent scaffolds. Chemical Society Reviews, 2013, 42, 4774.	38.1	64
9	Tailored Multivalent Neo-Glycoproteins: Synthesis, Evaluation, and Application of a Library of Galectin-3-Binding Glycan Ligands. Bioconjugate Chemistry, 2017, 28, 2832-2840.	3.6	54
10	Combinatorial Oneâ€Pot Synthesis of Polyâ€Nâ€acetyllactosamine Oligosaccharides with Leloirâ€Glycosyltransferases. Advanced Synthesis and Catalysis, 2011, 353, 2492-2500.	4.3	46
11	Hydrolytic and transglycosylation reactions of N-acyl modified substrates catalysed by Î²-N-acetylhexosaminidases. Tetrahedron, 2004, 60, 693-701.	1.9	45
12	Glycosyl azideâ€”a novel substrate for enzymatic transglycosylations. Tetrahedron Letters, 2005, 46, 8715-8718.	1.4	45
13	Poly-N-Acetyllactosamine Neo-Glycoproteins as Nanomolar Ligands of Human Galectin-3: Binding Kinetics and Modeling. International Journal of Molecular Sciences, 2018, 19, 372.	4.1	45
14	4-Deoxy-substrates for Î²-N-acetylhexosaminidases: How to make use of their loose specificity. Glycobiology, 2010, 20, 1002-1009.	2.5	36
15	Enzymatic characterization and molecular modeling of an evolutionarily interesting fungal Î²â€Nâ€acetylhexosaminidase. FEBS Journal, 2011, 278, 2469-2484.	4.7	34
16	Charged Hexosaminides as New Substrates for Î²â€Nâ€Acetylhexosaminidaseâ€Catalyzed Synthesis of Immunomodulatory Disaccharides. Advanced Synthesis and Catalysis, 2011, 353, 2409-2420.	4.3	33
17	Combined Application of Galactose Oxidase and Î²-N-Acetylhexosaminidase in the Synthesis of Complex ImmunoactiveN-Acetyl-D-galactosaminides. Advanced Synthesis and Catalysis, 2005, 347, 997-1006.	4.3	32
18	Biocompatible glyconanomaterials based on HPMA-copolymer for specific targeting of galectin-3. Journal of Nanobiotechnology, 2018, 16, 73.	9.1	32

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19	Twoâ€Step Enzymatic Synthesis of Î²â€<scp>d</scp>â€Nâ€Acetylgalactosamineâ€(1â†'4)â€<scp>d</scp>â€Nâ€acetylglucosamine (LacdiNAc) Chitooligomers for Deciphering Galectin Binding Behavior. Advanced Synthesis and Catalysis, 2017, 359, 2101-2108.	4.3	31
20	Glycosyl Azides â€“ An Alternative Way to Disaccharides. Advanced Synthesis and Catalysis, 2007, 349, 1514-1520.	4.3	30
21	Glycan-decorated HPMA copolymers as high-affinity lectin ligands. Polymer Chemistry, 2017, 8, 2647-2658.	3.9	30
22	Direct Evidence for ArOï£¿S Bond Cleavage upon Inactivation of Pseudomonas aeruginosa Arylsulfatase by Aryl Sulfamates. ChemBioChem, 2008, 9, 613-623.	2.6	29
23	Synthesis of LacdiNAc-terminated glycoconjugates by mutant galactosyltransferase - A way to new glycodrugs and materials. Glycobiology, 2009, 19, 509-517.	2.5	29
24	Glycosidases in Carbohydrate Synthesis: When Organic Chemistry Falls Short. Chimia, 2011, 65, 65-70.	0.6	28
25	Bioproduction of Quercetin and Rutinose Catalyzed by Rutinosidase: Novel Concept of â€œSolid State Biocatalysisâ€• International Journal of Molecular Sciences, 2019, 20, 1112.	4.1	28
26	Enzymatic synthesis of dimeric glycomimetic ligands of NK cell activation receptors. Carbohydrate Research, 2011, 346, 1599-1609.	2.3	26
27	Sequencing, cloning and high-yield expression of a fungal Î²-N-acetylhexosaminidase in Pichia pastoris. Protein Expression and Purification, 2012, 82, 212-217.	1.3	26
28	Chemo-enzymatic synthesis of LacdiNAc dimers of varying length as novel galectin ligands. Journal of Molecular Catalysis B: Enzymatic, 2014, 101, 47-55.	1.8	26
29	N-Acetylhexosamine triad in one molecule: Chemoenzymatic introduction of 2-acetamido-2-deoxy-Î²-d-galactopyranosyluronic acid residue into a complex oligosaccharide. Journal of Molecular Catalysis B: Enzymatic, 2008, 50, 69-73.	1.8	25
30	The Î²-N-Acetylhexosaminidase in the Synthesis of Bioactive Glycans: Protein and Reaction Engineering. Molecules, 2019, 24, 599.	3.8	25
31	Glycopolymers for Efficient Inhibition of Galectin-3: In Vitro Proof of Efficacy Using Suppression of T Lymphocyte Apoptosis and Tumor Cell Migration. Biomacromolecules, 2020, 21, 3122-3133.	5.4	25
32	High-Affinity N-(2-Hydroxypropyl)methacrylamide Copolymers with Tailored N-Acetyllactosamine Presentation Discriminate between Galectins. Biomacromolecules, 2020, 21, 641-652.	5.4	24
33	Advanced glycosidases as ingenious biosynthetic instruments. Biotechnology Advances, 2021, 49, 107733.	11.7	24
34	Engineered N-acetylhexosamine-active enzymes in glycoscience. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2070-2087.	2.4	22
35	Synthesis of Sulfated Glucosaminides for Profiling Substrate Specificities of Sulfatases and Fungal Î²â€Nâ€Acetylhexosaminidases. ChemBioChem, 2009, 10, 565-576.	2.6	21
36	Î²-N-Acetylhexosaminidasesâ€”the wizards of glycosylation. Applied Microbiology and Biotechnology, 2019, 103, 7869-7881.	3.6	21

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37	Regioselective 3â€Oâ€Substitution of Unprotected Thiodigalactosides: Direct Route to Galectin Inhibitors. Chemistry - A European Journal, 2020, 26, 9620-9631.	3.3	20
38	Î²-N-Acetylhexosaminidase-catalysed synthesis of non-reducing oligosaccharides. Journal of Molecular Catalysis B: Enzymatic, 2004, 29, 233-239.	1.8	19
39	Interaction between Galectin-3 and Integrins Mediates Cell-Matrix Adhesion in Endothelial Cells and Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2021, 22, 5144.	4.1	19
40	Immunoprotective neo-glycoproteins: Chemoenzymatic synthesis of multivalent glycomimetics for inhibition of cancer-related galectin-3. European Journal of Medicinal Chemistry, 2021, 220, 113500.	5.5	19
41	Selective Î²-N-acetylhexosaminidase from Aspergillus versicolorâ€"a tool for producing bioactive carbohydrates. Applied Microbiology and Biotechnology, 2019, 103, 1737-1753.	3.6	18
42	Rutinosidase from Aspergillus niger: crystal structure and insight into the enzymatic activity. FEBS Journal, 2020, 287, 3315-3327.	4.7	15
43	Carbohydrate synthesis and biosynthesis technologies for cracking of the glycan code: Recent advances. Biotechnology Advances, 2013, 31, 17-37.	11.7	14
44	Glycosidaseâ€Catalyzed Synthesis of Glycosyl Esters and Phenolic Glycosides of Aromatic Acids. Advanced Synthesis and Catalysis, 2019, 361, 2627-2637.	4.3	14
45	Recent trends in the treatment of cyanide-containing effluents: Comparison of different approaches. Critical Reviews in Environmental Science and Technology, 2023, 53, 416-434.	12.8	14
46	Inhibition of GlcNAc-Processing Glycosidases by C-6-Azido-NAG-Thiazoline and Its Derivatives. Molecules, 2014, 19, 3471-3488.	3.8	13
47	Acceptor Specificity of Î²-N-Acetylhexosaminidase from Talaromyces flavus: A Rational Explanation. International Journal of Molecular Sciences, 2019, 20, 6181.	4.1	13
48	Access to both anomers of rutinosyl azide using wild-type rutinosidase and its catalytic nucleophile mutant. Catalysis Communications, 2021, 149, 106193.	3.3	12
49	Cooperation between Subunits Is Essential for High-Affinity Binding of N-Acetyl-<scp>d</scp>-hexosamines to Dimeric Soluble and Dimeric Cellular Forms of Human CD69. Biochemistry, 2010, 49, 4060-4067.	2.5	11
50	Chemoâ€Enzymatic Synthesis of Branched Nâ€Acetyllactosamine Glycan Oligomers for Galectinâ€3 Inhibition. Advanced Synthesis and Catalysis, 2017, 359, 4015-4024.	4.3	11
51	A novel enzymatic tool for transferring GalNAc moiety onto challenging acceptors. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140319.	2.3	11
52	Dual Substrate Specificity of the Rutinosidase from Aspergillus niger and the Role of Its Substrate Tunnel. International Journal of Molecular Sciences, 2020, 21, 5671.	4.1	11
53	Discovery of human hexosaminidase inhibitors by in situ screening of a library of mono- and divalent pyrrolidine iminosugars. Bioorganic Chemistry, 2022, 120, 105650.	4.1	10
54	Glycopolymers Decorated with 3-O-Substituted Thiodigalactosides as Potent Multivalent Inhibitors of Galectin-3. Journal of Medicinal Chemistry, 2022, 65, 3866-3878.	6.4	10

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55	Methods of in vitro study of galectin-glycomaterial interaction. Biotechnology Advances, 2022, 58, 107928.	11.7	10
56	Aryl sulfamates are broad spectrum inactivators of sulfatases: Effects on sulfatases from various sources. Bioorganic and Medicinal Chemistry Letters, 2009, 19, 477-480.	2.2	9
57	Transglycosidase activity of glycosynthase-type mutants of a fungal GH20 Î²-N-acetylhexosaminidase. International Journal of Biological Macromolecules, 2020, 161, 1206-1215.	7.5	9
58	How Siteâ€Directed Mutagenesis Boosted Selectivity of a Promiscuous Enzyme. Advanced Synthesis and Catalysis, 2020, 362, 4138-4150.	4.3	8
59	Selectively Deoxyfluorinated Nâ€Acetyllactosamine Analogues as ¹⁹F NMR Probes to Study Carbohydrateâ€Galectin Interactions. Chemistry - A European Journal, 2021, 27, 13040-13051.	3.3	8
60	Growth Factors VEGF-A165 and FGF-2 as Multifunctional Biomolecules Governing Cell Adhesion and Proliferation. International Journal of Molecular Sciences, 2021, 22, 1843.	4.1	7
61	Cross-Linking Effects Dictate the Preference of Galectins to Bind LacNAc-Decorated HPMA Copolymers. International Journal of Molecular Sciences, 2021, 22, 6000.	4.1	7
62	Engineered Glycosidases for the Synthesis of Analogs of Human Milk Oligosaccharides. International Journal of Molecular Sciences, 2022, 23, 4106.	4.1	7
63	Cyanodeoxy-Glycosyl Derivatives as Substrates for Enzymatic Reactions. European Journal of Organic Chemistry, 2006, 2006, 1876-1885.	2.4	5
64	Mutagenesis of Catalytic Nucleophile of Î²â€Galactosidase Retains Residual Hydrolytic Activity and Affords a Transgalactosidase. ChemCatChem, 2021, 13, 4532-4542.	3.7	5
65	Application Potential of Cyanide Hydratase from Exidia glandulosa: Free Cyanide Removal from Simulated Industrial Effluents. Catalysts, 2021, 11, 1410.	3.5	5
66	Diaminocyclopentane-derived O-GlcNAcase inhibitors for combating tau hyperphosphorylation in Alzheimer's disease. Chemical Communications, 2022, 58, 8838-8841.	4.1	4
67	Reprint of: Advanced glycosidases as ingenious biosynthetic instruments. Biotechnology Advances, 2021, 51, 107820.	11.7	3
68	Azido leaving group in enzymatic synthesis-small and efficient. Carbohydrate Chemistry, 0, , 168-175.	0.3	2
69	2-Acetamido-2-deoxy-d-glucono-1,5-lactone Sulfonylhydrazones: Synthesis and Evaluation as Inhibitors of Human OGA and HexB Enzymes. International Journal of Molecular Sciences, 2022, 23, 1037.	4.1	2
70	Targeted fucosylation of glycans with engineered bacterial fucosyltransferase variants. ChemCatChem, 0, , .	3.7	2
71	Hypertransglycosylating Variants of the GH20 Î²â€Nâ€Acetylhexosaminidase for the Synthesis of Chitooligomers. Advanced Synthesis and Catalysis, 0, , .	4.3	2
72	Biocatalysis: â€œA Jack of all Trades...â€• International Journal of Molecular Sciences, 2020, 21, 5115.	4.1	1

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73	Reversible Lectin Binding to Glycan-Functionalized Graphene. International Journal of Molecular Sciences, 2021, 22, 6661.	4.1	1