Pavla BojarovÃ¡

List of Publications by Year
in descending order

73 papers	2,089 citations	236925 25 h-index	254184 43 g-index
80 all docs	80 docs citations	80 times ranked	1940 citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	Glycopolymers Decorated with 3-<i>O</i>-Substituted Thiodigalactosides as Potent Multivalent Inhibitors of Galectin-3. Journal of Medicinal Chemistry, 2022, 65, 3866-3878.	6.4	10
5	Methods of in vitro study of galectin-glycomaterial interaction. Biotechnology Advances, 2022, 58, 107928.	11.7	10
6	Engineered Glycosidases for the Synthesis of Analogs of Human Milk Oligosaccharides. International Journal of Molecular Sciences, 2022, 23, 4106.	4.1	7
7	Diaminocyclopentane-derived <i>O</i>-GlcNAcase inhibitors for combating tau hyperphosphorylation in Alzheimer's disease. Chemical Communications, 2022, 58, 8838-8841.	4.1	4
8	Access to both anomers of rutinosyl azide using wild-type rutinosidase and its catalytic nucleophile mutant. Catalysis Communications, 2021, 149, 106193.	3.3	12
9	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
10	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
11	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
12	Reversible Lectin Binding to Glycan-Functionalized Graphene. International Journal of Molecular Sciences, 2021, 22, 6661.	4.1	1
13	Advanced glycosidases as ingenious biosynthetic instruments. Biotechnology Advances, 2021, 49, 107733.	11.7	24
14	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
15	Selectively Deoxyfluorinated <i>N</i>â€Acetyllactosamine Analogues as ¹⁹F NMR Probes to Study Carbohydrateâ€Galectin Interactions. Chemistry - A European Journal, 2021, 27, 13040-13051.	3.3	8
16	Mutagenesis of Catalytic Nucleophile of Î²â€Galactosidase Retains Residual Hydrolytic Activity and Affords a Transgalactosidase. ChemCatChem, 2021, 13, 4532-4542.	3.7	5
17	Reprint of: Advanced glycosidases as ingenious biosynthetic instruments. Biotechnology Advances, 2021, 51, 107820.	11.7	3
18	Application Potential of Cyanide Hydratase from Exidia glandulosa: Free Cyanide Removal from Simulated Industrial Effluents. Catalysts, 2021, 11, 1410.	3.5	5

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19	High-Affinity <i>N</i>-(2-Hydroxypropyl)methacrylamide Copolymers with Tailored <i>N</i>-Acetyllactosamine Presentation Discriminate between Galectins. Biomacromolecules, 2020, 21, 641-652.	5.4	24
20	A novel enzymatic tool for transferring GalNAc moiety onto challenging acceptors. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140319.	2.3	11
21	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
22	How Siteâ€Directed Mutagenesis Boosted Selectivity of a Promiscuous Enzyme. Advanced Synthesis and Catalysis, 2020, 362, 4138-4150.	4.3	8
23	Glycopolymers for Efficient Inhibition of Galectin-3: <i>In Vitro</i> Proof of Efficacy Using Suppression of T Lymphocyte Apoptosis and Tumor Cell Migration. Biomacromolecules, 2020, 21, 3122-3133.	5.4	25
24	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
25	Biocatalysis: â€œA Jack of all Trades...â€ International Journal of Molecular Sciences, 2020, 21, 5115.	4.1	1
26	Regioselective 3â€<i>O</i>â€Substitution of Unprotected Thiodigalactosides: Direct Route to Galectin Inhibitors. Chemistry - A European Journal, 2020, 26, 9620-9631.	3.3	20
27	Rutinosidase from <i>Aspergillus niger</i>: crystal structure and insight into the enzymatic activity. FEBS Journal, 2020, 287, 3315-3327.	4.7	15
28	Î²-N-Acetylhexosaminidasesâ€”the wizards of glycosylation. Applied Microbiology and Biotechnology, 2019, 103, 7869-7881.	3.6	21
29	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
30	Glycosidaseâ€Catalyzed Synthesis of Glycosyl Esters and Phenolic Glycosides of Aromatic Acids. Advanced Synthesis and Catalysis, 2019, 361, 2627-2637.	4.3	14
31	The Î²-N-Acetylhexosaminidase in the Synthesis of Bioactive Glycans: Protein and Reaction Engineering. Molecules, 2019, 24, 599.	3.8	25
32	Selective Î²-N-acetylhexosaminidase from Aspergillus versicolorâ€”a tool for producing bioactive carbohydrates. Applied Microbiology and Biotechnology, 2019, 103, 1737-1753.	3.6	18
33	Acceptor Specificity of Î²-N-Acetylhexosaminidase from Talaromyces flavus: A Rational Explanation. International Journal of Molecular Sciences, 2019, 20, 6181.	4.1	13
34	Galectinâ€“Carbohydrate Interactions in Biomedicine and Biotechnology. Trends in Biotechnology, 2019, 37, 402-415.	9.3	77
35	Biocompatible glyconanomaterials based on HPMA-copolymer for specific targeting of galectin-3. Journal of Nanobiotechnology, 2018, 16, 73.	9.1	32
36	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

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37	Twoâ€Step Enzymatic Synthesis of Î²â€‹<scp>d</scp>â€‹<i>N</i>â€Acetylgalactosamineâ€(1â†’4)â€‹<scp>d</scp>â€‹<i>N</i>â€acetylglucosamine (LacdiNAc) Chitooligomers for Deciphering Galectin Binding Behavior. Advanced Synthesis and Catalysis, 2017, 359, 2101-2108.	4.3	31
38	Engineered N-acetylhexosamine-active enzymes in glycoscience. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 2070-2087.	2.4	22
39	Glycan-decorated HPMA copolymers as high-affinity lectin ligands. Polymer Chemistry, 2017, 8, 2647-2658.	3.9	30
40	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
41	Chemoâ€Enzymatic Synthesis of Branched <i>N</i>â€Acetyllactosamine Glycan Oligomers for Galectinâ€3 Inhibition. Advanced Synthesis and Catalysis, 2017, 359, 4015-4024.	4.3	11
42	Sugared biomaterial binding lectins: achievements and perspectives. Biomaterials Science, 2016, 4, 1142-1160.	5.4	66
43	Inhibition of GlcNAc-Processing Glycosidases by C-6-Azido-NAG-Thiazoline and Its Derivatives. Molecules, 2014, 19, 3471-3488.	3.8	13
44	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
45	Carbohydrate synthesis and biosynthesis technologies for cracking of the glycan code: Recent advances. Biotechnology Advances, 2013, 31, 17-37.	11.7	14
46	Enzymatic glycosylation of multivalent scaffolds. Chemical Society Reviews, 2013, 42, 4774.	38.1	64
47	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
48	Enzymatic Glycosylation of Small Molecules: Challenging Substrates Require Tailored Catalysts. Chemistry - A European Journal, 2012, 18, 10786-10801.	3.3	183
49	Glycosidases in Carbohydrate Synthesis: When Organic Chemistry Falls Short. Chimia, 2011, 65, 65-70.	0.6	28
50	Enzymatic characterization and molecular modeling of an evolutionarily interesting fungal Î²â€‹<i>N</i>â€acetylhexosaminidase. FEBS Journal, 2011, 278, 2469-2484.	4.7	34
51	Charged Hexosaminides as New Substrates for Î²â€‹<i>N</i>â€Acetylhexosaminidaseâ€Catalyzed Synthesis of Immunomodulatory Disaccharides. Advanced Synthesis and Catalysis, 2011, 353, 2409-2420.	4.3	33
52	Combinatorial Oneâ€Pot Synthesis of Polyâ€‹<i>N</i>â€acetyllactosamine Oligosaccharides with Leloirâ€Glycosyltransferases. Advanced Synthesis and Catalysis, 2011, 353, 2492-2500.	4.3	46
53	Enzymatic synthesis of dimeric glycomimetic ligands of NK cell activation receptors. Carbohydrate Research, 2011, 346, 1599-1609.	2.3	26
54	Î²-N-Acetylhexosaminidase: What's in a nameâ€¦?. Biotechnology Advances, 2010, 28, 682-693.	11.7	138

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55	4-Deoxy-substrates for Î²-N-acetylhexosaminidases: How to make use of their loose specificity. Glycobiology, 2010, 20, 1002-1009.	2.5	36
56	Cooperation between Subunits Is Essential for High-Affinity Binding of <i>N</i>-Acetyl-<scp>d</scp>-hexosamines to Dimeric Soluble and Dimeric Cellular Forms of Human CD69. Biochemistry, 2010, 49, 4060-4067.	2.5	11
57	Synthesis of LacdiNAc-terminated glycoconjugates by mutant galactosyltransferase - A way to new glycodrugs and materials. Glycobiology, 2009, 19, 509-517.	2.5	29
58	Glycosidases: a key to tailored carbohydrates. Trends in Biotechnology, 2009, 27, 199-209.	9.3	152
59	Synthesis of Sulfated Glucosaminides for Profiling Substrate Specificities of Sulfatases and Fungal Î²â€‹<i>N</i>â€Acetylhexosaminidases. ChemBioChem, 2009, 10, 565-576.	2.6	21
60	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
61	Direct Evidence for ArOï£¿S Bond Cleavage upon Inactivation of <i>Pseudomonas aeruginosa</i> Arylsulfatase by Aryl Sulfamates. ChemBioChem, 2008, 9, 613-623.	2.6	29
62	Sulfotransferases, sulfatases and formylglycine-generating enzymes: a sulfation fascination. Current Opinion in Chemical Biology, 2008, 12, 573-581.	6.1	91
63	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
64	Glycosyl Azides â€“ An Alternative Way to Disaccharides. Advanced Synthesis and Catalysis, 2007, 349, 1514-1520.	4.3	30
65	Purification and characterization of a nitrilase from Aspergillus niger K10. Applied Microbiology and Biotechnology, 2006, 73, 567-575.	3.6	76
66	Cyanodeoxy-Glycosyl Derivatives as Substrates for Enzymatic Reactions. European Journal of Organic Chemistry, 2006, 2006, 1876-1885.	2.4	5
67	Glycosyl azideâ€”a novel substrate for enzymatic transglycosylations. Tetrahedron Letters, 2005, 46, 8715-8718.	1.4	45
68	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
69	Î²-N-Acetylhexosaminidase-catalysed synthesis of non-reducing oligosaccharides. Journal of Molecular Catalysis B: Enzymatic, 2004, 29, 233-239.	1.8	19
70	Hydrolytic and transglycosylation reactions of N-acyl modified substrates catalysed by Î²-N-acetylhexosaminidases. Tetrahedron, 2004, 60, 693-701.	1.9	45
71	Azido leaving group in enzymatic synthesis-small and efficient. Carbohydrate Chemistry, 0, , 168-175.	0.3	2
72	Targeted fucosylation of glycans with engineered bacterial fucosyltransferase variants. ChemCatChem, 0, , .	3.7	2

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73	Hypertransglycosylating Variants of the GH20 Î²â€Nâ€Acetylhexosaminidase for the Synthesis of Chitooligomers. Advanced Synthesis and Catalysis, 0, , .	4.3	2