

Vitor H Pomin

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,840
citations

172457

29
h-index

182427

51
g-index

77
all docs

77
docs citations

77
times ranked

2861
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure, biology, evolution, and medical importance of sulfated fucans and galactans. <i>Glycobiology</i> , 2008, 18, 1016-1027.	2.5	288
2	Effective Inhibition of SARS-CoV-2 Entry by Heparin and Enoxaparin Derivatives. <i>Journal of Virology</i> , 2021, 95, .	3.4	176
3	Holothurian Fucosylated Chondroitin Sulfate. <i>Marine Drugs</i> , 2014, 12, 232-254.	4.6	162
4	Glycosaminoglycans and Proteoglycans. <i>Pharmaceuticals</i> , 2018, 11, 27.	3.8	130
5	Selective cleavage and anticoagulant activity of a sulfated fucan: stereospecific removal of a 2-sulfate ester from the polysaccharide by mild acid hydrolysis, preparation of oligosaccharides, and heparin cofactor IIâ€“dependent anticoagulant activity. <i>Glycobiology</i> , 2005, 15, 369-381.	2.5	109
6	Review: An overview about the structureâ€“function relationship of marine sulfated homopolysaccharides with regular chemical structures. <i>Biopolymers</i> , 2009, 91, 601-609.	2.4	106
7	A preponderantly 4-sulfated, 3-linked galactan from the green alga <i>Codium isthmocladum</i> . <i>Glycobiology</i> , 2007, 18, 250-259.	2.5	98
8	Sulfated glycans in inflammation. <i>European Journal of Medicinal Chemistry</i> , 2015, 92, 353-369.	5.5	94
9	Structural and functional insights into sulfated galactans: a systematic review. <i>Glycoconjugate Journal</i> , 2010, 27, 1-12.	2.7	91
10	Mild acid hydrolysis of sulfated fucans: a selective 2-desulfation reaction and an alternative approach for preparing tailored sulfated oligosaccharides. <i>Glycobiology</i> , 2005, 15, 1376-1385.	2.5	84
11	Fucanomics and galactanomics: Current status in drug discovery, mechanisms of action and role of the well-defined structures. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 1971-1979.	2.4	84
12	Keratan sulfate: An up-to-date review. <i>International Journal of Biological Macromolecules</i> , 2015, 72, 282-289.	7.5	79
13	Effects of oversulfated and fucosylated chondroitin sulfates on coagulation. <i>Thrombosis and Haemostasis</i> , 2010, 103, 994-1004.	3.4	75
14	Unique Extracellular Matrix Heparan Sulfate from the Bivalve <i>Nodipecten nodosus</i> (Linnaeus, 1758) Safely Inhibits Arterial Thrombosis after Photochemically Induced Endothelial Lesion. <i>Journal of Biological Chemistry</i> , 2010, 285, 7312-7323.	3.4	60
15	Fucanomics and Galactanomics: Marine Distribution, Medicinal Impact, Conceptions, and Challenges. <i>Marine Drugs</i> , 2012, 10, 793-811.	4.6	59
16	NMR Chemical Shifts in Structural Biology of Glycosaminoglycans. <i>Analytical Chemistry</i> , 2014, 86, 65-94.	6.5	59
17	Characterization of Glycosaminoglycans by ¹⁵ N NMR Spectroscopy and in Vivo Isotopic Labeling. <i>Analytical Chemistry</i> , 2010, 82, 4078-4088.	6.5	51
18	Current structural biology of the heparin interactome. <i>Current Opinion in Structural Biology</i> , 2015, 34, 17-25.	5.7	50

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19	A Unique 2-Sulfated Î²-Galactan from the Egg Jelly of the Sea Urchin <i>Glyptocidaris crenularis</i> . <i>Journal of Biological Chemistry</i> , 2009, 284, 18790-18800.	3.4	44
20	NMR structural determination of unique invertebrate glycosaminoglycans endowed with medical properties. <i>Carbohydrate Research</i> , 2015, 413, 41-50.	2.3	44
21	Residual keratan sulfate in chondroitin sulfate formulations for oral administration. <i>Carbohydrate Polymers</i> , 2012, 90, 839-846.	10.2	42
22	Exploiting enzyme specificities in digestions of chondroitin sulfates A and C: Production of well-defined hexasaccharides. <i>Glycobiology</i> , 2012, 22, 826-838.	2.5	38
23	The Sea as a Rich Source of Structurally Unique Glycosaminoglycans and Mimetics. <i>Microorganisms</i> , 2017, 5, 51.	3.6	38
24	Marine Carbohydrate-Based Compounds with Medicinal Properties. <i>Marine Drugs</i> , 2018, 16, 233.	4.6	38
25	Specific sulfation and glycosylation— structural combination for the anticoagulation of marine carbohydrates. <i>Frontiers in Cellular and Infection Microbiology</i> , 2014, 4, 33.	3.9	36
26	A Dilemma in the Glycosaminoglycan-Based Therapy: Synthetic or Naturally Unique Molecules?. <i>Medicinal Research Reviews</i> , 2015, 35, 1195-1219.	10.5	34
27	Marine Non-Glycosaminoglycan Sulfated Glycans as Potential Pharmaceuticals. <i>Pharmaceuticals</i> , 2015, 8, 848-864.	3.8	34
28	Galactosaminoglycans: Medical Applications and Drawbacks. <i>Molecules</i> , 2019, 24, 2803.	3.8	34
29	Structural and functional analyses of bovine and porcine intestinal heparins confirm they are different drugs. <i>Drug Discovery Today</i> , 2014, 19, 1801-1807.	6.4	33
30	Structural and kinetic analyses of holothurian sulfated glycans suggest potential treatment for SARS-CoV-2 infection. <i>Journal of Biological Chemistry</i> , 2021, 297, 101207.	3.4	31
31	Anticoagulant motifs of marine sulfated glycans. <i>Glycoconjugate Journal</i> , 2014, 31, 341-344.	2.7	29
32	Structure–Function Relationship of Anticoagulant and Antithrombotic Well-Defined Sulfated Polysaccharides from Marine Invertebrates. <i>Advances in Food and Nutrition Research</i> , 2012, 65, 195-209.	3.0	27
33	Solution NMR conformation of glycosaminoglycans. <i>Progress in Biophysics and Molecular Biology</i> , 2014, 114, 61-68.	2.9	26
34	Synthetic Oligosaccharide Libraries and Microarray Technology: A Powerful Combination for the Success of Current Glycosaminoglycan Interactomics. <i>ChemMedChem</i> , 2018, 13, 648-661.	3.2	24
35	Marine medicinal glycomics. <i>Frontiers in Cellular and Infection Microbiology</i> , 2014, 4, 5.	3.9	22
36	NMR structural biology of sulfated glycans. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 1069-1084.	3.5	20

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37	Sulfated glycans in sea urchin fertilization. <i>Glycoconjugate Journal</i> , 2015, 32, 9-15.	2.7	19
38	Impact of sulfation pattern on the conformation and dynamics of sulfated fucan oligosaccharides as revealed by NMR and MD. <i>Glycobiology</i> , 2015, 25, 535-547.	2.5	19
39	Anticoagulant and Antithrombotic Properties of Three Structurally Correlated Sea Urchin Sulfated Glycans and Their Low-Molecular-Weight Derivatives. <i>Marine Drugs</i> , 2018, 16, 304.	4.6	19
40	Antiviral activities of four marine sulfated glycans against adenovirus and human cytomegalovirus. <i>Antiviral Research</i> , 2021, 190, 105077.	4.1	19
41	Unique Properties of Human \hat{I}^2 -Defensin 6 (hBD6) and Glycosaminoglycan Complex. <i>Journal of Biological Chemistry</i> , 2014, 289, 22969-22979.	3.4	18
42	Paradigms in the structural biology of the mitogenic ternary complex FGF:FGFR:heparin. <i>Biochimie</i> , 2016, 127, 214-226.	2.6	18
43	Antimicrobial Sulfated Glycans: Structure and Function. <i>Current Topics in Medicinal Chemistry</i> , 2016, 17, 319-330.	2.1	18
44	Biological findings from the recent NMR-based studies of glycosaminoglycan-protein interactions. <i>Glycobiology</i> , 2014, 24, 991-1003.	2.5	17
45	Marine Sulfated Glycans with Serpin-Unrelated Anticoagulant Properties. <i>Advances in Clinical Chemistry</i> , 2013, 62, 269-303.	3.7	16
46	Marine Antithrombotics. <i>Marine Drugs</i> , 2020, 18, 514.	4.6	16
47	Medical Gains of Chondroitin Sulfate Upon Fucosylation. <i>Current Medicinal Chemistry</i> , 2015, 22, 4166-4176.	2.4	14
48	Fractionation of sulfated galactan from the red alga <i>Botryocladia occidentalis</i> separates its anticoagulant and anti-SARS-CoV-2 properties. <i>Journal of Biological Chemistry</i> , 2022, 298, 101856.	3.4	13
49	Dual and antagonistic therapeutic effects of sulfated glycans. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 3965-3971.	3.0	12
50	Glycosaminoglycan-Protein Interactions by Nuclear Magnetic Resonance (NMR) Spectroscopy. <i>Molecules</i> , 2018, 23, 2314.	3.8	12
51	Sulfated Glycans in HIV Infection and Therapy. <i>Current Pharmaceutical Design</i> , 2017, 23, 3405-3414.	1.9	12
52	Advances in glycosaminoglycanomics by ^{15}N -NMR spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3035-3048.	3.7	11
53	Phylogeny, structure, function, biosynthesis and evolution of sulfated galactose-containing glycans. <i>International Journal of Biological Macromolecules</i> , 2016, 84, 372-379.	7.5	11
54	^1H and ^{15}N NMR Analyses on Heparin, Heparan Sulfates and Related Monosaccharides Concerning the Chemical Exchange Regime of the N-Sulfo-Glucosamine Sulfamate Proton. <i>Pharmaceuticals</i> , 2016, 9, 58.	3.8	9

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55	Biocompatibility and structural characterization of glycosaminoglycans isolated from heads of silver-banded whiting (<i>Sillago argentifasciata</i> Martin & Montalban 1935). <i>International Journal of Biological Macromolecules</i> , 2020, 151, 663-676.	7.5	9
56	NMR-based dynamics of free glycosaminoglycans in solution. <i>Analyst, The</i> , 2014, 139, 3656-3665.	3.5	8
57	Sea, Carbohydrates and Clotting: A Triad on the Road of Drug Discovery. <i>Mini-Reviews in Medicinal Chemistry</i> , 2014, 14, 717-724.	2.4	8
58	How to analyze the anticoagulant and antithrombotic mechanisms of action in fucanome and galactanome?. <i>Glycoconjugate Journal</i> , 2014, 31, 89-99.	2.7	7
59	Oligosaccharides from the 3-linked 2-sulfated alpha-L-fucan and alpha-L-galactan show similar conformations but different dynamics. <i>Glycobiology</i> , 2016, 26, 1257-1264.	2.5	7
60	Conformational properties of l-fucose and the tetrasaccharide building block of the sulfated l-fucan from <i>Lytechinus variegatus</i> . <i>Journal of Structural Biology</i> , 2020, 209, 107407.	2.8	7
61	Heparin-Binding Proteins (Chemokines and Defensins) and their Complexes with Glycosaminoglycans from the Solution NMR Perspective. <i>Current Protein and Peptide Science</i> , 2014, 15, 738-744.	1.4	6
62	Red Algal Sulfated Galactan Binds and Protects Neural Cells from HIV-1 gp120 and Tat. <i>Pharmaceuticals</i> , 2021, 14, 714.	3.8	5
63	Inhibition of SARS-CoV-2 wild-type (Wuhan-Hu-1) and Delta (B.1.617.2) strains by marine sulfated glycans. <i>Glycobiology</i> , 0, , .	2.5	5
64	Saturation Transfer Difference in Characterization of Glycosaminoglycan-Protein Interactions. <i>SLAS Technology</i> , 2020, 25, 307-319.	1.9	4
65	Safety and Pharmacokinetics of Intranasally Administered Heparin. <i>Pharmaceutical Research</i> , 2022, 39, 541-551.	3.5	3
66	Sulfated Glycans and Related Digestive Enzymes in the Zika Virus Infectivity: Potential Mechanisms of Virus-Host Interaction and Perspectives in Drug Discovery. <i>Interdisciplinary Perspectives on Infectious Diseases</i> , 2017, 2017, 1-8.	1.4	2
67	Structural mechanisms involved in mild-acid hydrolysis of a defined tetrasaccharide-repeating sulfate fucan. , 2019, , 111-128.		2
68	NMR-based conformation and dynamics of a tetrasaccharide-repeating sulfated fucan substituted by different counterions. <i>Biopolymers</i> , 2016, 105, 840-851.	2.4	1
69	The contribution of Glycobiology to the Zika outbreak in the Americas. <i>Glycobiology</i> , 2016, 26, 680-682.	2.5	1
70	Nuclear Magnetic Resonance Methods in Structural Characterization of Glycosaminoglycans. <i>Methods in Molecular Biology</i> , 2022, 2303, 183-207.	0.9	1