Scott E Guimond

List of Publications by Year
in descending order

58 papers	3,798 citations	185998 28 h-index	143772 57 g-index
65 all docs	65 docs citations	65 times ranked	5643 citing authors

#	Article	IF	Citations
1	Synthetic Heparan Sulfate Mimetic Pixatimod (PG545) Potently Inhibits SARS-CoV-2 by Disrupting the Spikeâ€“ACE2 Interaction. ACS Central Science, 2022, 8, 527-545.	5.3	62
2	Glycosaminoglycans from Litopenaeus vannamei Inhibit the Alzheimerâ€™s Disease Î² Secretase, BACE1. Marine Drugs, 2021, 19, 203.	2.2	8
3	The Hyperlipidaemic Drug Fenofibrate Significantly Reduces Infection by SARS-CoV-2 in Cell Culture Models. Frontiers in Pharmacology, 2021, 12, 660490.	1.6	31
4	Shotgun ion mobility mass spectrometry sequencing of heparan sulfate saccharides. Nature Communications, 2020, 11, 1481.	5.8	39
5	Chemical synthesis of a sulfated d-glucosamine library and evaluation of cell proliferation capabilities. Carbohydrate Research, 2020, 495, 108085.	1.1	1
6	Heparin Inhibits Cellular Invasion by SARS-CoV-2: Structural Dependence of the Interaction of the Spike S1 Receptor-Binding Domain with Heparin. Thrombosis and Haemostasis, 2020, 120, 1700-1715.	1.8	228
7	Inhibition of BACE1, the Î²-secretase implicated in Alzheimerâ€™s disease, by a chondroitin sulfate extract from Sardina pilchardus. Neural Regeneration Research, 2020, 15, 1546.	1.6	16
8	Tools for the Quality Control of Pharmaceutical Heparin. Medicina (Lithuania), 2019, 55, 636.	0.8	5
9	A Glycosaminoglycan Extract from Portunus pelagicus Inhibits BACE1, the Î² Secretase Implicated in Alzheimerâ€™s Disease. Marine Drugs, 2019, 17, 293.	2.2	6
10	Heparan Sulfate Proteoglycan Synthesis Is Dysregulated in Human Osteoarthritic Cartilage. American Journal of Pathology, 2019, 189, 632-647.	1.9	33
11	Dendrimer Heparan Sulfate Glycomimetics: Potent Heparanase Inhibitors for Anticancer Therapy. ACS Chemical Biology, 2018, 13, 3236-3242.	1.6	28
12	Variations in the Peritrophic Matrix Composition of Heparan Sulphate from the Tsetse Fly, Glossina morsitans morsitans. Pathogens, 2018, 7, 32.	1.2	6
13	Versatile Separation and Analysis of Heparan Sulfate Oligosaccharides Using Graphitized Carbon Liquid Chromatography and Electrospray Mass Spectrometry. Analytical Chemistry, 2017, 89, 8942-8950.	3.2	27
14	Sulfataseâ€mediated manipulation of the astrocyteâ€Schwann cell interface. Glia, 2017, 65, 19-33.	2.5	18
15	A semi-synthetic glycosaminoglycan analogue inhibits and reverses Plasmodium falciparum cytoadherence. PLoS ONE, 2017, 12, e0186276.	1.1	11
16	Heparin Isomeric Oligosaccharide Separation Using Volatile Salt Strong Anion Exchange Chromatography. Analytical Chemistry, 2016, 88, 11542-11550.	3.2	19
17	Singleâ€Entity Heparan Sulfate Glycomimetic Clusters for Therapeutic Applications. Angewandte Chemie, 2015, 127, 2756-2761.	1.6	9
18	Heparan sulfate phage display antibodies recognise epitopes defined by a combination of sugar sequence and cation binding. Organic and Biomolecular Chemistry, 2015, 13, 6066-6072.	1.5	5

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19	Singleâ€Entity Heparan Sulfate Glycomimetic Clusters for Therapeutic Applications. Angewandte Chemie - International Edition, 2015, 54, 2718-2723.	7.2	34
20	Inhibition of influenza H5N1 invasion by modified heparin derivatives. MedChemComm, 2015, 6, 640-646.	3.5	40
21	Distinct patterns of heparan sulphate in pancreatic islets suggest novel roles in paracrine islet regulation. Molecular and Cellular Endocrinology, 2015, 399, 296-310.	1.6	17
22	2-O Heparan Sulfate Sulfation by Hs2st Is Required for Erk/Mapk Signalling Activation at the Mid-Gestational Mouse Telencephalic Midline. PLoS ONE, 2015, 10, e0130147.	1.1	19
23	Sulf1 and Sulf2 Differentially Modulate Heparan Sulfate Proteoglycan Sulfation during Postnatal Cerebellum Development: Evidence for Neuroprotective and Neurite Outgrowth Promoting Functions. PLoS ONE, 2015, 10, e0139853.	1.1	45
24	Chemically modified, non-anticoagulant heparin derivatives are potent galectin-3 binding inhibitors and inhibit circulating galectin-3-promoted metastasis. Oncotarget, 2015, 6, 23671-23687.	0.8	43
25	Nanoscale self-assembled multivalent (SAMul) heparin binders in highly competitive, biologically relevant, aqueous media. Chemical Science, 2014, 5, 1484.	3.7	42
26	Differential Sulfation Remodelling of Heparan Sulfate by Extracellular 6-O-Sulfatases Regulates Fibroblast Growth Factor-Induced Boundary Formation by Glial Cells: Implications for Glial Cell Transplantation. Journal of Neuroscience, 2012, 32, 15902-15912.	1.7	38
27	Diversification of the Structural Determinants of Fibroblast Growth Factor-Heparin Interactions. Journal of Biological Chemistry, 2012, 287, 40061-40073.	1.6	69
28	Array-Based Functional Screening of Heparin Glycans. Chemistry and Biology, 2012, 19, 553-558.	6.2	22
29	Extracellular matrix and cell signalling: the dynamic cooperation of integrin, proteoglycan and growth factor receptor. Journal of Endocrinology, 2011, 209, 139-151.	1.2	985
30	Disaccharide compositional analysis of heparan sulfate and heparin polysaccharides using UV or high-sensitivity fluorescence (BODIPY) detection. Nature Protocols, 2010, 5, 1983-1992.	5.5	47
31	Glycomics Profiling of Heparan Sulfate Structure and Activity. Methods in Enzymology, 2010, 480, 65-85.	0.4	25
32	Comparable stabilisation, structural changes and activities can be induced in FGF by a variety of HS and non-GAG analogues: implications for sequence-activity relationships. Organic and Biomolecular Chemistry, 2010, 8, 5390.	1.5	29
33	Rapid Purification and High Sensitivity Analysis of Heparan Sulfate from Cells and Tissues. Journal of Biological Chemistry, 2009, 284, 25714-25722.	1.6	44
34	Glycosaminoglycan origin and structure revealed by multivariate analysis of NMR and CD spectra. Glycobiology, 2009, 19, 52-67.	1.3	50
35	Chemometric analysis for comparison of heparan sulphate oligosaccharides. Journal of the Royal Society Interface, 2009, 6, 997-1004.	1.5	4
36	Novel Mechanisms of Fibroblast Growth Factor Receptor 1 Regulation by Extracellular Matrix Protein Anosmin-1. Journal of Biological Chemistry, 2009, 284, 29905-29920.	1.6	68

#	Article	IF	Citations
37	Cations Modulate Polysaccharide Structure To Determine FGFâ''FGFR Signaling: A Comparison of Signaling and Inhibitory Polysaccharide Interactions with FGF-1 in Solution. Biochemistry, 2009, 48, 4772-4779.	1.2	16
38	The potential for circular dichroism as an additional facile and sensitive method of monitoring low-molecular-weight heparins and heparinoids. Thrombosis and Haemostasis, 2009, 102, 874-878.	1.8	25
39	Site-specific interactions of copper(II) ions with heparin revealed with complementary (SRCD, NMR,) Tj ETQq1 1 0.784314 rgBT /Over	1.1	32
40	Disruption of Rosetting in Plasmodium falciparum Malaria with Chemically Modified Heparin and Low Molecular Weight Derivatives Possessing Reduced Anticoagulant and Other Serine Protease Inhibition Activities. Journal of Medicinal Chemistry, 2008, 51, 1453-1458.	2.9	26
41	The Activities of Heparan Sulfate and its Analogue Heparin are Dictated by Biosynthesis, Sequence, and Conformation. Connective Tissue Research, 2008, 49, 140-144.	1.1	38
42	Influence of substitution pattern and cation binding on conformation and activity in heparin derivatives. Glycobiology, 2007, 17, 983-993.	1.3	66
43	High sensitivity separation and detection of heparan sulfate disaccharides. Journal of Chromatography A, 2006, 1135, 52-56.	1.8	54
44	Engineered Bio-Active Polysaccharides from Heparin. Macromolecular Bioscience, 2006, 6, 681-686.	2.1	15
45	A synthetic glycosaminoglycan mimetic (RGTA) modifies natural glycosaminoglycan species during myogenesis. Journal of Cell Science, 2005, 118, 253-264.	1.2	29
46	Heparan Sulphate-Growth Factor Interactions in Development and Disease. Trends in Glycoscience and Glycotechnology, 2005, 17, 241-253.	0.0	1
47	Anosmin-1 Modulates Fibroblast Growth Factor Receptor 1 Signaling in Human Gonadotropin-Releasing Hormone Olfactory Neuroblasts through a Heparan Sulfate-Dependent Mechanism. Journal of Neuroscience, 2004, 24, 10384-10392.	1.7	138
48	Highly diverse heparan sulfate analogue libraries: a novel resource for bioactivity screening of proteins. International Journal of Experimental Pathology, 2004, 85, A62-A63.	0.6	0
49	Highly Diverse Heparan Sulfate Analogue Libraries:â€‰ Providing Access to Expanded Areas of Sequence Space for Bioactivity Screening. Journal of Medicinal Chemistry, 2004, 47, 277-280.	2.9	39
50	Proteoglycans Make the Grade-ient. Molecular Cell, 2004, 16, 159-160.	4.5	8
51	Localisation of specific heparan sulfate proteoglycans during the proliferative phase of brain development. Developmental Dynamics, 2003, 227, 170-184.	0.8	92
52	Heparan sulphate sulphotransferase expression in mice and Caenorhabditis elegans. Biochemical Society Transactions, 2003, 31, 343-348.	1.6	24
53	Variant heparan sulfates synthesized in developing mouse brain differentially regulate FGF signaling. Glycobiology, 2002, 12, 721-727.	1.3	64
54	Heparan sulfate: decoding a dynamic multifunctional cell regulator. Trends in Cell Biology, 2001, 11, 75-82.	3.6	440

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55	Dynamic biosynthesis of heparan sulphate sequences in developing mouse brain: a potential regulatory mechanism during development. Biochemical Society Transactions, 2001, 29, 177-81.	1.6	6
56	Fibroblast growth factor receptor signalling is dictated by specific heparan sulphate saccharides. Current Biology, 1999, 9, 1343-1346.	1.8	186
57	Detection of Protein Tyrosine Kinase Activity Using a High-Capacity Streptavidin-Coated Membrane and Optimized Biotinylated Peptide Substrates. Analytical Biochemistry, 1998, 261, 100-112.	1.1	17
58	[11] Regulation by heparan sulfate in fibroblast growth factor signaling. Methods in Enzymology, 1994, 245, 219-240.	0.4	98