

Scott E Guimond

List of Publications by Year in descending order

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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	Extracellular matrix and cell signalling: the dynamic cooperation of integrin, proteoglycan and growth factor receptor. <i>Journal of Endocrinology</i> , 2011, 209, 139-151.	1.2	985
2	Heparan sulfate: decoding a dynamic multifunctional cell regulator. <i>Trends in Cell Biology</i> , 2001, 11, 75-82.	3.6	440
3	Heparin Inhibits Cellular Invasion by SARS-CoV-2: Structural Dependence of the Interaction of the Spike S1 Receptor-Binding Domain with Heparin. <i>Thrombosis and Haemostasis</i> , 2020, 120, 1700-1715.	1.8	228
4	Fibroblast growth factor receptor signalling is dictated by specific heparan sulphate saccharides. <i>Current Biology</i> , 1999, 9, 1343-1346.	1.8	186
5	Anosmin-1 Modulates Fibroblast Growth Factor Receptor 1 Signaling in Human Gonadotropin-Releasing Hormone Olfactory Neuroblasts through a Heparan Sulfate-Dependent Mechanism. <i>Journal of Neuroscience</i> , 2004, 24, 10384-10392.	1.7	138
6	[11] Regulation by heparan sulfate in fibroblast growth factor signaling. <i>Methods in Enzymology</i> , 1994, 245, 219-240.	0.4	98
7	Localisation of specific heparan sulfate proteoglycans during the proliferative phase of brain development. <i>Developmental Dynamics</i> , 2003, 227, 170-184.	0.8	92
8	Diversification of the Structural Determinants of Fibroblast Growth Factor-Heparin Interactions. <i>Journal of Biological Chemistry</i> , 2012, 287, 40061-40073.	1.6	69
9	Novel Mechanisms of Fibroblast Growth Factor Receptor 1 Regulation by Extracellular Matrix Protein Anosmin-1. <i>Journal of Biological Chemistry</i> , 2009, 284, 29905-29920.	1.6	68
10	Influence of substitution pattern and cation binding on conformation and activity in heparin derivatives. <i>Glycobiology</i> , 2007, 17, 983-993.	1.3	66
11	Variant heparan sulfates synthesized in developing mouse brain differentially regulate FGF signaling. <i>Glycobiology</i> , 2002, 12, 721-727.	1.3	64
12	Synthetic Heparan Sulfate Mimetic Pixatimod (PG545) Potently Inhibits SARS-CoV-2 by Disrupting the Spike-ACE2 Interaction. <i>ACS Central Science</i> , 2022, 8, 527-545.	5.3	62
13	High sensitivity separation and detection of heparan sulfate disaccharides. <i>Journal of Chromatography A</i> , 2006, 1135, 52-56.	1.8	54
14	Glycosaminoglycan origin and structure revealed by multivariate analysis of NMR and CD spectra. <i>Glycobiology</i> , 2009, 19, 52-67.	1.3	50
15	Disaccharide compositional analysis of heparan sulfate and heparin polysaccharides using UV or high-sensitivity fluorescence (BODIPY) detection. <i>Nature Protocols</i> , 2010, 5, 1983-1992.	5.5	47
16	Sulf1 and Sulf2 Differentially Modulate Heparan Sulfate Proteoglycan Sulfation during Postnatal Cerebellum Development: Evidence for Neuroprotective and Neurite Outgrowth Promoting Functions. <i>PLoS ONE</i> , 2015, 10, e0139853.	1.1	45
17	Rapid Purification and High Sensitivity Analysis of Heparan Sulfate from Cells and Tissues. <i>Journal of Biological Chemistry</i> , 2009, 284, 25714-25722.	1.6	44
18	Chemically modified, non-anticoagulant heparin derivatives are potent galectin-3 binding inhibitors and inhibit circulating galectin-3-promoted metastasis. <i>Oncotarget</i> , 2015, 6, 23671-23687.	0.8	43

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19	Nanoscale self-assembled multivalent (SAMul) heparin binders in highly competitive, biologically relevant, aqueous media. <i>Chemical Science</i> , 2014, 5, 1484.	3.7	42
20	Inhibition of influenza H5N1 invasion by modified heparin derivatives. <i>MedChemComm</i> , 2015, 6, 640-646.	3.5	40
21	Highly Diverse Heparan Sulfate Analogue Libraries: Providing Access to Expanded Areas of Sequence Space for Bioactivity Screening. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 277-280.	2.9	39
22	Shotgun ion mobility mass spectrometry sequencing of heparan sulfate saccharides. <i>Nature Communications</i> , 2020, 11, 1481.	5.8	39
23	The Activities of Heparan Sulfate and its Analogue Heparin are Dictated by Biosynthesis, Sequence, and Conformation. <i>Connective Tissue Research</i> , 2008, 49, 140-144.	1.1	38
24	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. <i>Journal of Neuroscience</i> , 2012, 32, 15902-15912.	1.7	38
25	Single-Entity Heparan Sulfate Glycomimetic Clusters for Therapeutic Applications. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 2718-2723.	7.2	34
26	Heparan Sulfate Proteoglycan Synthesis Is Dysregulated in Human Osteoarthritic Cartilage. <i>American Journal of Pathology</i> , 2019, 189, 632-647.	1.9	33
27	Site-specific interactions of copper(II) ions with heparin revealed with complementary (SRCD, NMR,) Tj ETQq1 1 0.784314 rgBT /Over 1.1 32	1.1	32
28	The Hyperlipidaemic Drug Fenofibrate Significantly Reduces Infection by SARS-CoV-2 in Cell Culture Models. <i>Frontiers in Pharmacology</i> , 2021, 12, 660490.	1.6	31
29	A synthetic glycosaminoglycan mimetic (RGTA) modifies natural glycosaminoglycan species during myogenesis. <i>Journal of Cell Science</i> , 2005, 118, 253-264.	1.2	29
30	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. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 5390.	1.5	29
31	Dendrimer Heparan Sulfate Glycomimetics: Potent Heparanase Inhibitors for Anticancer Therapy. <i>ACS Chemical Biology</i> , 2018, 13, 3236-3242.	1.6	28
32	Versatile Separation and Analysis of Heparan Sulfate Oligosaccharides Using Graphitized Carbon Liquid Chromatography and Electrospray Mass Spectrometry. <i>Analytical Chemistry</i> , 2017, 89, 8942-8950.	3.2	27
33	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. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 1453-1458.	2.9	26
34	The potential for circular dichroism as an additional facile and sensitive method of monitoring low-molecular-weight heparins and heparinoids. <i>Thrombosis and Haemostasis</i> , 2009, 102, 874-878.	1.8	25
35	Glycomics Profiling of Heparan Sulfate Structure and Activity. <i>Methods in Enzymology</i> , 2010, 480, 65-85.	0.4	25
36	Heparan sulphate sulphotransferase expression in mice and Caenorhabditis elegans. <i>Biochemical Society Transactions</i> , 2003, 31, 343-348.	1.6	24

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37	Array-Based Functional Screening of Heparin Glycans. <i>Chemistry and Biology</i> , 2012, 19, 553-558.	6.2	22
38	Heparin Isomeric Oligosaccharide Separation Using Volatile Salt Strong Anion Exchange Chromatography. <i>Analytical Chemistry</i> , 2016, 88, 11542-11550.	3.2	19
39	2-O Heparan Sulfate Sulfation by Hs2st Is Required for Erk/Mapk Signalling Activation at the Mid-Gestational Mouse Telencephalic Midline. <i>PLoS ONE</i> , 2015, 10, e0130147.	1.1	19
40	Sulfatase-mediated manipulation of the astrocyte-Schwann cell interface. <i>Glia</i> , 2017, 65, 19-33.	2.5	18
41	Detection of Protein Tyrosine Kinase Activity Using a High-Capacity Streptavidin-Coated Membrane and Optimized Biotinylated Peptide Substrates. <i>Analytical Biochemistry</i> , 1998, 261, 100-112.	1.1	17
42	Distinct patterns of heparan sulphate in pancreatic islets suggest novel roles in paracrine islet regulation. <i>Molecular and Cellular Endocrinology</i> , 2015, 399, 296-310.	1.6	17
43	Cations Modulate Polysaccharide Structure To Determine FGF ¹ /FGFR Signaling: A Comparison of Signaling and Inhibitory Polysaccharide Interactions with FGF-1 in Solution. <i>Biochemistry</i> , 2009, 48, 4772-4779.	1.2	16
44	Inhibition of BACE1, the β -secretase implicated in Alzheimer's disease, by a chondroitin sulfate extract from <i>Sardina pilchardus</i> . <i>Neural Regeneration Research</i> , 2020, 15, 1546.	1.6	16
45	Engineered Bio-Active Polysaccharides from Heparin. <i>Macromolecular Bioscience</i> , 2006, 6, 681-686.	2.1	15
46	A semi-synthetic glycosaminoglycan analogue inhibits and reverses <i>Plasmodium falciparum</i> cytoadherence. <i>PLoS ONE</i> , 2017, 12, e0186276.	1.1	11
47	Single-Entity Heparan Sulfate Glycomimetic Clusters for Therapeutic Applications. <i>Angewandte Chemie</i> , 2015, 127, 2756-2761.	1.6	9
48	Proteoglycans Make the Gradient. <i>Molecular Cell</i> , 2004, 16, 159-160.	4.5	8
49	Glycosaminoglycans from <i>Litopenaeus vannamei</i> Inhibit the Alzheimer's Disease β Secretase, BACE1. <i>Marine Drugs</i> , 2021, 19, 203.	2.2	8
50	Variations in the Peritrophic Matrix Composition of Heparan Sulphate from the Tsetse Fly, <i>Glossina morsitans morsitans</i> . <i>Pathogens</i> , 2018, 7, 32.	1.2	6
51	A Glycosaminoglycan Extract from <i>Portunus pelagicus</i> Inhibits BACE1, the β Secretase Implicated in Alzheimer's Disease. <i>Marine Drugs</i> , 2019, 17, 293.	2.2	6
52	Dynamic biosynthesis of heparan sulphate sequences in developing mouse brain: a potential regulatory mechanism during development. <i>Biochemical Society Transactions</i> , 2001, 29, 177-81.	1.6	6
53	Heparan sulfate phage display antibodies recognise epitopes defined by a combination of sugar sequence and cation binding. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 6066-6072.	1.5	5
54	Tools for the Quality Control of Pharmaceutical Heparin. <i>Medicina (Lithuania)</i> , 2019, 55, 636.	0.8	5

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55	Chemometric analysis for comparison of heparan sulphate oligosaccharides. <i>Journal of the Royal Society Interface</i> , 2009, 6, 997-1004.	1.5	4
56	Chemical synthesis of a sulfated d-glucosamine library and evaluation of cell proliferation capabilities. <i>Carbohydrate Research</i> , 2020, 495, 108085.	1.1	1
57	Heparan Sulphate-Growth Factor Interactions in Development and Disease. <i>Trends in Glycoscience and Glycotechnology</i> , 2005, 17, 241-253.	0.0	1
58	Highly diverse heparan sulfate analogue libraries: a novel resource for bioactivity screening of proteins. <i>International Journal of Experimental Pathology</i> , 2004, 85, A62-A63.	0.6	0