

Umesh R Desai

List of Publications by Year in descending order

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185
papers

5,113
citations

87888

38
h-index

133252

59
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192
all docs

192
docs citations

192
times ranked

4015
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in Studying Glycosaminoglycan-Protein Interactions Using Capillary Electrophoresis. <i>Methods in Molecular Biology</i> , 2022, 2303, 365-387.	0.9	2
2	Aqueous Molecular for Understanding Glycosaminoglycan Recognition by. <i>Methods in Molecular Biology</i> , 2022, 2303, 49-62.	0.9	0
3	Computerized for Discovering Promising Glycosaminoglycan that Modulate Protein Function. <i>Methods in Molecular Biology</i> , 2022, 2303, 513-537.	0.9	1
4	Thermodynamic Affinity and Nature of Forces Defining Glycosaminoglycan- Systems Using. <i>Methods in Molecular Biology</i> , 2022, 2303, 259-278.	0.9	0
5	In-Depth Molecular Dynamics Study of All Possible Chondroitin Sulfate Disaccharides Reveals Key Insight into Structural Heterogeneity and Dynamism. <i>Biomolecules</i> , 2022, 12, 77.	4.0	6
6	Molecular dynamics simulations to understand glycosaminoglycan interactions in the free- and protein-bound states. <i>Current Opinion in Structural Biology</i> , 2022, 74, 102356.	5.7	23
7	3-O-Sulfation induces sequence-specific compact topologies in heparan sulfate that encode a dynamic sulfation code. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 3884-3898.	4.1	6
8	Metabolic engineering of non-pathogenic <i>Escherichia coli</i> strains for the controlled production of low molecular weight heparosan and size-specific heparosan oligosaccharides. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129765.	2.4	10
9	High dose acetaminophen inhibits STAT3 and has free radical independent anti-cancer stem cell activity. <i>Neoplasia</i> , 2021, 23, 348-359.	5.3	9
10	Combinatorial Virtual Library Screening Study of Transforming Growth Factor- β 2-Chondroitin Sulfate System. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7542.	4.1	9
11	On the Selectivity of Heparan Sulfate Recognition by SARS-CoV-2 Spike Glycoprotein. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 1710-1717.	2.8	22
12	Studies on fragment-based design of allosteric inhibitors of human factor XIa. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115762.	3.0	6
13	Discovery of Sulfated Small Molecule Inhibitors of Matrix Metalloproteinase-8. <i>Biomolecules</i> , 2020, 10, 1166.	4.0	8
14	Visualizing antithrombin-binding 3-O-sulfated heparan sulfate motifs on cell surfaces. <i>Chemical Communications</i> , 2020, 56, 14423-14426.	4.1	7
15	Structural Insights Into How Proteoglycans Determine Chemokine-CXCR1/CXCR2 Interactions: Progress and Challenges. <i>Frontiers in Immunology</i> , 2020, 11, 660.	4.8	32
16	Discovering small-molecule therapeutics against SARS-CoV-2. <i>Drug Discovery Today</i> , 2020, 25, 1535-1544.	6.4	85
17	Enzyme immobilization offers a robust tool to scale up the production of longer, diverse, natural glycosaminoglycan oligosaccharides. <i>Glycobiology</i> , 2020, 30, 768-773.	2.5	0
18	Inhibition of Human Cytomegalovirus Entry into Host Cells through A Pleiotropic Small Molecule. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1676.	4.1	7

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19	Rigorous analysis of free solution glycosaminoglycan dynamics using simple, new tools. <i>Glycobiology</i> , 2020, 30, 516-527.	2.5	10
20	Combinatorial virtual library screening analysis of antithrombin binding oligosaccharide motif generation by heparan sulfate 3-O-Sulfotransferase 1. <i>Computational and Structural Biotechnology Journal</i> , 2020, 18, 933-941.	4.1	13
21	A synthetic heparin mimetic that allosterically inhibits factor XIa and reduces thrombosis in vivo without enhanced risk of bleeding. <i>Journal of Thrombosis and Haemostasis</i> , 2019, 17, 2110-2122.	3.8	22
22	A Synthetic, Small, Sulfated Agent Is a Promising Inhibitor of Chlamydia spp. Infection in vivo. <i>Frontiers in Microbiology</i> , 2019, 9, 3269.	3.5	9
23	On the Process of Discovering Leads That Target the Heparin-Binding Site of Neutrophil Elastase in the Sputum of Cystic Fibrosis Patients. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 5501-5511.	6.4	14
24	Perspective on computational simulations of glycosaminoglycans. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2019, 9, e1388.	14.6	21
25	2-Aminobenzamide-Based Factor Xa Inhibitors with Novel Mono- and Bi-Aryls as S4 Binding Elements. <i>ChemistrySelect</i> , 2019, 4, 802-809.	1.5	1
26	A Unique Nonsaccharide Mimetic of Heparin Hexasaccharide Inhibits Colon Cancer Stem Cells via p38 MAP Kinase Activation. <i>Molecular Cancer Therapeutics</i> , 2019, 18, 51-61.	4.1	39
27	Polymeric fluorescent heparin as one-step FRET substrate of human heparanase. <i>Carbohydrate Polymers</i> , 2019, 205, 385-391.	10.2	21
28	A synthetic glycosaminoglycan mimetic blocks HSV-1 infection in human iris stromal cells. <i>Antiviral Research</i> , 2019, 161, 154-162.	4.1	14
29	A Robust, One-step FRET Assay for Human Heparanase. <i>Bio-protocol</i> , 2019, 9, e3356.	0.4	3
30	Design and Synthesis of Photoaffinity Probe for Identification of Protein Targets of Glycosaminoglycan Mimetics. <i>FASEB Journal</i> , 2019, 33, 784.11.	0.5	0
31	Glycosaminoglycans and Glycosaminoglycan Mimetics as Human Neutrophil Elastase Inhibitors for Cystic Fibrosis Management. <i>FASEB Journal</i> , 2019, 33, 782.2.	0.5	0
32	A small, synthetic glycosaminoglycan mimetic as an inhibitor of human heparanase. <i>FASEB Journal</i> , 2019, 33, 675.12.	0.5	0
33	Towards computational prediction of the heparan sulfate interactome. <i>FASEB Journal</i> , 2019, 33, 800.5.	0.5	0
34	anexVis: visual analytics framework for analysis of RNA expression. <i>Bioinformatics</i> , 2018, 34, 2510-2512.	4.1	1
35	A small group of sulfated benzofurans induces steady-state submaximal inhibition of thrombin. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2018, 28, 1101-1105.	2.2	17
36	Tamarind xyloglucan attenuates dextran sodium sulfate induced ulcerative colitis: Role of antioxidation. <i>Journal of Functional Foods</i> , 2018, 42, 327-338.	3.4	15

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37	So you think computational approaches to understanding glycosaminoglycanâ€“protein interactions are too dry and too rigid? Think again!. <i>Current Opinion in Structural Biology</i> , 2018, 50, 91-100.	5.7	68
38	Novel heparin mimetics reveal cooperativity between exosite 2 and sodium-binding site of thrombin. <i>Thrombosis Research</i> , 2018, 165, 61-67.	1.7	8
39	Sulfotransferase and Heparanase: Remodeling Engines in Promoting Virus Infection and Disease Development. <i>Frontiers in Pharmacology</i> , 2018, 9, 1315.	3.5	19
40	Structural basis, stoichiometry, and thermodynamics of binding of the chemokines KC and MIP2 to the glycosaminoglycan heparin. <i>Journal of Biological Chemistry</i> , 2018, 293, 17817-17828.	3.4	26
41	Mucoadhesive role of tamarind xyloglucan on inflammation attenuates ulcerative colitis. <i>Journal of Functional Foods</i> , 2018, 47, 1-10.	3.4	30
42	Inhibition of Herpes Simplex Virus-1 Entry into Human Cells by Nonsaccharide Glycosaminoglycan Mimetics. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 797-802.	2.8	27
43	Lysines and Arginines play non-redundant roles in mediating chemokine-glycosaminoglycan interactions. <i>Scientific Reports</i> , 2018, 8, 12289.	3.3	18
44	Molecular principles for heparin oligosaccharideâ€“based inhibition of neutrophil elastase in cystic fibrosis. <i>Journal of Biological Chemistry</i> , 2018, 293, 12480-12490.	3.4	34
45	Understanding Heparin/Hparan Sulfate Biosynthetic Pathway in the Generation of Antithrombin Binding Motif using Combinatorial Virtual Library Screening (CVLS). <i>FASEB Journal</i> , 2018, 32, 673.29.	0.5	0
46	Understanding Specificity of Glycosaminoglycan Interactions with Proteins. <i>FASEB Journal</i> , 2018, 32, 544.12.	0.5	0
47	Computational Study of Glycosaminoglycan Specificity for Growth Factor and Chemokine Family Members. <i>FASEB Journal</i> , 2018, 32, 544.13.	0.5	0
48	A Hexasaccharide Containing Rare 2â€“O</i>-Sulfateâ€“Glucuronic Acid Residues Selectively Activates Heparin Cofactor II. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 2312-2317.	13.8	54
49	A Hexasaccharide Containing Rare 2â€“O</i>-Sulfateâ€“Glucuronic Acid Residues Selectively Activates Heparin Cofactor II. <i>Angewandte Chemie</i> , 2017, 129, 2352-2357.	2.0	9
50	Comparative analysis of INLIGHTâ„¢-labeled enzymatically depolymerized heparin by reverse-phase chromatography and high-performance mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 499-509.	3.7	8
51	Heparin depolymerization by immobilized heparinase: A review. <i>International Journal of Biological Macromolecules</i> , 2017, 99, 721-730.	7.5	17
52	Potent, Selective, Allosteric Inhibition of Human Plasmin by Sulfated Non-Saccharide Glycosaminoglycan Mimetics. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 641-657.	6.4	28
53	Sulfated dehydropolymer of caffeic acid: InÂ“vitro anti-lung cell death activity and inÂ“vivo intervention in emphysema induced by VEGF receptor blockade. <i>Pulmonary Pharmacology and Therapeutics</i> , 2017, 45, 181-190.	2.6	9
54	Solution structure of CXCL13 and heparan sulfate binding show that GAG binding site and cellular signalling rely on distinct domains. <i>Open Biology</i> , 2017, 7, 170133.	3.6	33

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55	2-O, 3-O Desulfated Heparin Blocks High Mobility Group Box 1 Release by Inhibition of p300 Acetyltransferase Activity. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 56, 90-98.	2.9	20
56	Maintaining pH-dependent conformational flexibility of M1 is critical for efficient influenza A virus replication. <i>Emerging Microbes and Infections</i> , 2017, 6, 1-11.	6.5	11
57	Immobilization alters heparin cleaving properties of heparinase I. <i>Glycobiology</i> , 2017, 27, 994-998.	2.5	6
58	A molecular dynamics-based algorithm for evaluating the glycosaminoglycan mimicking potential of synthetic, homogenous, sulfated small molecules. <i>PLoS ONE</i> , 2017, 12, e0171619.	2.5	22
59	Allosteric Inhibition of Factor XIIIa. Non-Saccharide Glycosaminoglycan Mimetics, but Not Glycosaminoglycans, Exhibit Promising Inhibition Profile. <i>PLoS ONE</i> , 2016, 11, e0160189.	2.5	18
60	Blocking inhibition of prothrombinase by tissue factor pathway inhibitor alpha: a procoagulant property of heparins. <i>British Journal of Haematology</i> , 2016, 175, 123-132.	2.5	4
61	Molecular Basis of Chemokine CXCL5-Glycosaminoglycan Interactions. <i>Journal of Biological Chemistry</i> , 2016, 291, 20539-20550.	3.4	47
62	Estimating glycosaminoglycan-protein interaction affinity: water dominates the specific antithrombin-heparin interaction. <i>Glycobiology</i> , 2016, 26, 1041-1047.	2.5	19
63	Allosteric Partial Inhibition of Monomeric Proteases. Sulfated Coumarins Induce Regulation, not just Inhibition, of Thrombin. <i>Scientific Reports</i> , 2016, 6, 24043.	3.3	32
64	Broad Spectrum Anti-Influenza Agents by Inhibiting Self-Association of Matrix Protein 1. <i>Scientific Reports</i> , 2016, 6, 32340.	3.3	10
65	Factor XIa inhibitors: A review of the patent literature. <i>Expert Opinion on Therapeutic Patents</i> , 2016, 26, 323-345.	5.0	58
66	Training the next generation of biomedical investigators in glycosciences. <i>Journal of Clinical Investigation</i> , 2016, 126, 405-408.	8.2	32
67	Heparan sulfate hexasaccharide selectively inhibits cancer stem cells self-renewal by activating p38 MAP kinase. <i>Oncotarget</i> , 2016, 7, 84608-84622.	1.8	34
68	Solution NMR characterization of chemokine CXCL8/IL-8 monomer and dimer binding to glycosaminoglycans: structural plasticity mediates differential binding interactions. <i>Biochemical Journal</i> , 2015, 472, 121-133.	3.7	91
69	Plasmin Regulation through Allosteric, Sulfated, Small Molecules. <i>Molecules</i> , 2015, 20, 608-624.	3.8	22
70	6-Hydroxyflavone and Derivatives Exhibit Potent Anti-Inflammatory Activity among Mono-, Di- and Polyhydroxylated Flavones in Kidney Mesangial Cells. <i>PLoS ONE</i> , 2015, 10, e0116409.	2.5	22
71	Transforming growth factor- $\beta 2$ is sequestered in preterm human milk by chondroitin sulfate proteoglycans. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, G171-G180.	3.4	20
72	Investigation of the heparin-thrombin interaction by dynamic force spectroscopy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 1099-1106.	2.4	9

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73	Glycosaminoglycans. <i>Methods in Molecular Biology</i> , 2015, 1229, v.	0.9	5
74	Allosteric inhibition of factor XIa. Sulfated non-saccharide glycosaminoglycan mimetics as promising anticoagulants. <i>Thrombosis Research</i> , 2015, 136, 379-387.	1.7	38
75	Chemoenzymatically Prepared Heparan Sulfate Containing Rare 2-O-Sulfonated Glucuronic Acid Residues. <i>ACS Chemical Biology</i> , 2015, 10, 1485-1494.	3.4	16
76	Heparin interaction with a receptor on hyperglycemic dividing cells prevents intracellular hyaluronan synthesis and autophagy responses in models of type 1 diabetes. <i>Matrix Biology</i> , 2015, 48, 36-41.	3.6	17
77	Designing "High-Affinity, High-Specificity" Glycosaminoglycan Sequences Through Computerized Modeling. <i>Methods in Molecular Biology</i> , 2015, 1229, 289-314.	0.9	16
78	Glycosaminoglycan-Protein Interaction Studies Using Fluorescence Spectroscopy. <i>Methods in Molecular Biology</i> , 2015, 1229, 335-353.	0.9	12
79	Synthesis of Glycosaminoglycan Mimetics Through Sulfation of Polyphenols. <i>Methods in Molecular Biology</i> , 2015, 1229, 49-67.	0.9	11
80	A Simple Method for Discovering Druggable, Specific Glycosaminoglycan-Protein Systems. Elucidation of Key Principles from Heparin/Heparan Sulfate-Binding Proteins. <i>PLoS ONE</i> , 2015, 10, e0141127.	2.5	40
81	Studying Glycosaminoglycan-Protein Interactions Using Capillary Electrophoresis. <i>Methods in Molecular Biology</i> , 2015, 1229, 355-375.	0.9	1
82	Toward a robust computational screening strategy for identifying glycosaminoglycan sequences that display high specificity for target proteins. <i>Glycobiology</i> , 2014, 24, 1323-1333.	2.5	38
83	A simple, general approach of allosteric coagulation enzyme inhibition through monosulfated hydrophobic scaffolds. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 5716-5720.	2.2	3
84	Discovery methodology for the development of direct factor VIIa inhibitors. <i>Expert Opinion on Drug Discovery</i> , 2014, 9, 859-872.	5.0	2
85	Recent Advances on Plasmin Inhibitors for the Treatment of Fibrinolysis-Related Disorders. <i>Medicinal Research Reviews</i> , 2014, 34, 1168-1216.	10.5	65
86	An update on recent patents on thrombin inhibitors (2010 " 2013). <i>Expert Opinion on Therapeutic Patents</i> , 2014, 24, 47-67.	5.0	14
87	Sulfated low molecular weight lignins, allosteric inhibitors of coagulation proteinases via the heparin binding site, significantly alter the active site of thrombin and factor xa compared to heparin. <i>Thrombosis Research</i> , 2014, 134, 1123-1129.	1.7	30
88	Targeting the GPIIb/IIIa Binding Site of Thrombin To Simultaneously Induce Dual Anticoagulant and Antiplatelet Effects. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 3030-3039.	6.4	22
89	Substantial non-electrostatic forces are needed to induce allosteric disruption of thrombin's active site through exosite 2. <i>Biochemical and Biophysical Research Communications</i> , 2014, 452, 813-816.	2.1	8
90	Synthetic, Non-saccharide, Glycosaminoglycan Mimetics Selectively Target Colon Cancer Stem Cells. <i>ACS Chemical Biology</i> , 2014, 9, 1826-1833.	3.4	37

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91	Designing Allosteric Inhibitors of Factor XIa. Lessons from the Interactions of Sulfated Pentagalloylglucopyranosides. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 4805-4818.	6.4	49
92	Allosteric Inhibition of Human Factor XIa: Discovery of Monosulfated Benzofurans as a Class of Promising Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 3559-3569.	6.4	24
93	Sulfated Caffeic Acid Dehydropolymer Attenuates Elastase and Cigarette Smoke Extract-induced Emphysema in Rats: Sustained Activity and a Need of Pulmonary Delivery. <i>Lung</i> , 2014, 192, 481-492.	3.3	10
94	A Nanosensor for Ultrasensitive Detection of Oversulfated Chondroitin Sulfate Contaminant in Heparin. <i>Journal of the American Chemical Society</i> , 2014, 136, 554-557.	13.7	51
95	Crystal Structures of Influenza A Virus Matrix Protein M1: Variations on a Theme. <i>PLoS ONE</i> , 2014, 9, e109510.	2.5	32
96	Specificity of glycosaminoglycan-protein interactions: the role of desolvation (1007.5). <i>FASEB Journal</i> , 2014, 28, 1007.5.	0.5	0
97	On scaffold hopping: Challenges in the discovery of sulfated small molecules as mimetics of glycosaminoglycans. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013, 23, 355-359.	2.2	15
98	Novel low molecular weight lignins as potential anti-emphysema agents: In vitro triple inhibitory activity against elastase, oxidation and inflammation. <i>Pulmonary Pharmacology and Therapeutics</i> , 2013, 26, 296-304.	2.6	32
99	Sulfated Pentagalloylglucoside Is a Potent, Allosteric, and Selective Inhibitor of Factor XIa. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 867-878.	6.4	81
100	Discovery of Allosteric Modulators of Factor XIa by Targeting Hydrophobic Domains Adjacent to Its Heparin-Binding Site. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 2415-2428.	6.4	38
101	Sulfation Patterns Determine Cellular Internalization of Heparin-Like Polysaccharides. <i>Molecular Pharmaceutics</i> , 2013, 10, 1442-1449.	4.6	36
102	Designing Allosteric Regulators of Thrombin. Exosite 2 Features Multiple Subsites That Can Be Targeted by Sulfated Small Molecules for Inducing Inhibition. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 5059-5070.	6.4	48
103	The promise of sulfated synthetic small molecules as modulators of glycosaminoglycan function. <i>Future Medicinal Chemistry</i> , 2013, 5, 1363-1366.	2.3	28
104	The Compensatory G88R Change Is Essential in Restoring the Normal Functions of Influenza A/WSN/33 Virus Matrix Protein 1 with a Disrupted Nuclear Localization Signal. <i>Journal of Virology</i> , 2013, 87, 345-353.	3.4	8
105	Sulfated, low molecular weight lignins inhibit a select group of heparin-binding serine proteases. <i>Biochemical and Biophysical Research Communications</i> , 2012, 417, 382-386.	2.1	25
106	Discovery of novel sulfonated small molecules that inhibit vascular tube formation. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 4467-4470.	2.2	18
107	Potent direct inhibitors of factor Xa based on the tetrahydroisoquinoline scaffold. <i>European Journal of Medicinal Chemistry</i> , 2012, 54, 771-783.	5.5	19
108	Designing Allosteric Regulators of Thrombin. Monosulfated Benzofuran Dimers Selectively Interact With Arg173 of Exosite 2 to Induce Inhibition. <i>Journal of Medicinal Chemistry</i> , 2012, 55, 6888-6897.	6.4	37

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109	Dynamic affinity chromatography in the separation of sulfated lignins binding to thrombin. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012, 908, 45-51.	2.3	2
110	On the Specificity of Heparin/Heparan Sulfate Binding to Proteins. Anion-Binding Sites on Antithrombin and Thrombin Are Fundamentally Different. <i>PLoS ONE</i> , 2012, 7, e48632.	2.5	45
111	Electronically rich N-substituted tetrahydroisoquinoline 3-carboxylic acid esters: Concise synthesis and conformational studies. <i>Tetrahedron</i> , 2012, 68, 2027-2040.	1.9	19
112	Interaction of Thrombin with Sucrose Octasulfate. <i>Biochemistry</i> , 2011, 50, 6973-6982.	2.5	19
113	Rational Design of Potent, Small, Synthetic Allosteric Inhibitors of Thrombin. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 5522-5531.	6.4	48
114	Identification of the site of binding of sulfated, low molecular weight lignins on thrombin. <i>Biochemical and Biophysical Research Communications</i> , 2011, 413, 348-352.	2.1	21
115	Designing Nonsaccharide, Allosteric Activators of Antithrombin for Accelerated Inhibition of Factor Xa. <i>Journal of Medicinal Chemistry</i> , 2011, 54, 6125-6138.	6.4	33
116	Linear polyalkylamines as fingerprinting agents in capillary electrophoresis of low molecular weight heparins and glycosaminoglycans. <i>Electrophoresis</i> , 2011, 32, 3070-3077.	2.4	3
117	Serpin-Glycosaminoglycan Interactions. <i>Methods in Enzymology</i> , 2011, 501, 105-137.	1.0	36
118	Study of physico-chemical properties of novel highly sulfated, aromatic, mimetics of heparin and heparan sulfate. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 1207-1216.	3.3	20
119	Self-supported flare-stack vibrations in ammonia plant. <i>Process Safety Progress</i> , 2010, 29, 254-263.	1.0	2
120	Sulfated, low-molecular-weight lignins are potent inhibitors of plasmin, in addition to thrombin and factor Xa: Novel opportunity for controlling complex pathologies. <i>Thrombosis and Haemostasis</i> , 2010, 103, 507-515.	3.4	30
121	Chemoselective precipitation of lactose from a lactose/sucrose mixture: proof of concept for a new separation methodology. <i>Supramolecular Chemistry</i> , 2010, 22, 751-757.	1.2	1
122	Nonsulfated, Cinnamic Acid-Based Lignins are Potent Antagonists of HSV-1 Entry into Cells. <i>Biomacromolecules</i> , 2010, 11, 1412-1416.	5.4	37
123	Understanding Dermatan Sulfate-Heparin Cofactor II Interaction through Virtual Library Screening. <i>ACS Medicinal Chemistry Letters</i> , 2010, 1, 281-285.	2.8	38
124	Chemical sulfation of small molecules—advances and challenges. <i>Tetrahedron</i> , 2010, 66, 2907-2918.	1.9	145
125	Interaction of Antithrombin with Sulfated, Low Molecular Weight Lignins. <i>Journal of Biological Chemistry</i> , 2009, 284, 20897-20908.	3.4	38
126	Capillary electrophoretic study of small, highly sulfated, non-sugar molecules interacting with antithrombin. <i>Electrophoresis</i> , 2009, 30, 1544-1551.	2.4	11

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127	On designing non-saccharide, allosteric activators of antithrombin. <i>European Journal of Medicinal Chemistry</i> , 2009, 44, 2626-2631.	5.5	27
128	First steps in the direction of synthetic, allosteric, direct inhibitors of thrombin and factor Xa. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 4126-4129.	2.2	36
129	Characterization of the plasma and blood anticoagulant potential of structurally and mechanistically novel oligomers of 4-hydroxycinnamic acids. <i>Blood Coagulation and Fibrinolysis</i> , 2009, 20, 27-34.	1.0	22
130	Application of Molecular Connectivity and Electro-Topological Indices in Quantitative Structure-Activity Analysis of Pyrazole Derivatives as Inhibitors of Factor Xa and Thrombin. <i>Chemistry and Biodiversity</i> , 2008, 5, 2609-2620.	2.1	5
131	A capillary electrophoretic method for fingerprinting low molecular weight heparins. <i>Analytical Biochemistry</i> , 2008, 380, 229-234.	2.4	19
132	Recent Research Developments in the Direct Inhibition of Coagulation Proteinases - Inhibitors of the Initiation Phase. <i>Cardiovascular and Hematological Agents in Medicinal Chemistry</i> , 2008, 6, 323-336.	1.0	12
133	A Novel Allosteric Pathway of Thrombin Inhibition. <i>Journal of Biological Chemistry</i> , 2007, 282, 31891-31899.	3.4	70
134	Viral Inhibition Studies on Sulfated Lignin, a Chemically Modified Biopolymer and a Potential Mimic of Heparan Sulfate. <i>Biomacromolecules</i> , 2007, 8, 1759-1763.	5.4	49
135	Synthesis of Biologically Relevant Biflavanoids - A Review. <i>Chemistry and Biodiversity</i> , 2007, 4, 2495-2527.	2.1	54
136	Rapid and efficient microwave-assisted synthesis of highly sulfated organic scaffolds. <i>Tetrahedron Letters</i> , 2007, 48, 6754-6758.	1.4	69
137	Finding a Needle in a Haystack: Development of a Combinatorial Virtual Screening Approach for Identifying High Specificity Heparin/Heparan Sulfate Sequence(s). <i>Journal of Medicinal Chemistry</i> , 2006, 49, 3553-3562.	6.4	68
138	Novel chemo-enzymatic oligomers of cinnamic acids as direct and indirect inhibitors of coagulation proteinases. <i>Bioorganic and Medicinal Chemistry</i> , 2006, 14, 7988-7998.	3.0	59
139	Synthesis of per-sulfated flavonoids using 2,2,2-trichloro ethyl protecting group and their factor Xa inhibition potential. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 1783-1789.	3.0	31
140	Capillary electrophoresis of highly sulfated flavanoids and flavonoids. <i>Analytical Biochemistry</i> , 2005, 336, 316-322.	2.4	12
141	Antithrombin Activation and Designing Novel Heparin Mimics. , 2005, , 483-512.		2
142	Antithrombin Activation by Nonsulfated, Non-Polysaccharide Organic Polymer. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 1269-1273.	6.4	29
143	Mechanism of Poly(acrylic acid) Acceleration of Antithrombin Inhibition of Thrombin: Implications for the Design of Novel Heparin Mimics. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 5360-5368.	6.4	24
144	Importance of Tryptophan 49 of Antithrombin in Heparin Binding and Conformational Activation. <i>Biochemistry</i> , 2005, 44, 11660-11668.	2.5	19

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145	Structural Characterization of a Serendipitously Discovered Bioactive Macromolecule, Lignin Sulfate. <i>Biomacromolecules</i> , 2005, 6, 2822-2832.	5.4	25
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