

# Fuming Zhang

## List of Publications by Citations

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256  
papers

6,331  
citations

42  
h-index

68  
g-index

279  
ext. papers

7,927  
ext. citations

6  
avg, IF

6.11  
L-index

#	Paper	IF	Citations
256	Improving fatty acids production by engineering dynamic pathway regulation and metabolic control. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 11299-304	11.5	357
255	Cellular binding of hepatitis C virus envelope glycoprotein E2 requires cell surface heparan sulfate. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 41003-12	5.4	352
254	Insights into the molecular basis for fibroblast growth factor receptor autoinhibition and ligand-binding promiscuity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 935-40	11.5	152
253	Structural basis by which alternative splicing modulates the organizer activity of FGF8 in the brain. <i>Genes and Development</i> , <b>2006</b> , 20, 185-98	12.6	149
252	Characterization of heparin and severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) spike glycoprotein binding interactions. <i>Antiviral Research</i> , <b>2020</b> , 181, 104873	10.8	148
251	Sulfated polysaccharides effectively inhibit SARS-CoV-2 in vitro. <i>Cell Discovery</i> , <b>2020</b> , 6, 50	22.3	144
250	Kinetic model for FGF, FGFR, and proteoglycan signal transduction complex assembly. <i>Biochemistry</i> , <b>2004</b> , 43, 4724-30	3.2	134
249	Engineering of routes to heparin and related polysaccharides. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 93, 1-16	5.7	100
248	Nanostructured glycan architecture is important in the inhibition of influenza A virus infection. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 48-54	28.7	98
247	Top-down approach for the direct characterization of low molecular weight heparins using LC-FT-MS. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 8822-9	7.8	93
246	E. coli K5 fermentation and the preparation of heparosan, a bioengineered heparin precursor. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 107, 964-73	4.9	93
245	Urinary Glycosaminoglycans Predict Outcomes in Septic Shock and Acute Respiratory Distress Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2016</b> , 194, 439-49	10.2	93
244	Binding affinities of vascular endothelial growth factor (VEGF) for heparin-derived oligosaccharides. <i>Bioscience Reports</i> , <b>2012</b> , 32, 71-81	4.1	87
243	Designer DNA architecture offers precise and multivalent spatial pattern-recognition for viral sensing and inhibition. <i>Nature Chemistry</i> , <b>2020</b> , 12, 26-35	17.6	82
242	Effective Inhibition of SARS-CoV-2 Entry by Heparin and Enoxaparin Derivatives. <i>Journal of Virology</i> , <b>2021</b> , 95,	6.6	82
241	Interaction of Zika Virus Envelope Protein with Glycosaminoglycans. <i>Biochemistry</i> , <b>2017</b> , 56, 1151-1162	3.2	81
240	Structural characterization of pharmaceutical heparins prepared from different animal tissues. <i>Journal of Pharmaceutical Sciences</i> , <b>2013</b> , 102, 1447-57	3.9	80

239	Crystallographic analysis of calcium-dependent heparin binding to annexin A2. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 31689-95	5.4	68
238	Rapid and accurate determination of the lignin content of lignocellulosic biomass by solid-state NMR. <i>Fuel</i> , <b>2015</b> , 141, 39-45	7.1	67
237	Intravenous fluid resuscitation is associated with septic endothelial glycocalyx degradation. <i>Critical Care</i> , <b>2019</b> , 23, 259	10.8	67
236	Oversulfated chondroitin sulfate interaction with heparin-binding proteins: new insights into adverse reactions from contaminated heparins. <i>Biochemical Pharmacology</i> , <b>2009</b> , 78, 292-300	6	67
235	Heparin oligosaccharides inhibit chemokine (CXC motif) ligand 12 (CXCL12) cardioprotection by binding orthogonal to the dimerization interface, promoting oligomerization, and competing with the chemokine (CXC motif) receptor 4 (CXCR4) N terminus. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 737-46	5.4	65
234	Isolation of a lectin binding rhamnogalacturonan-I containing pectic polysaccharide from pumpkin. <i>Carbohydrate Polymers</i> , <b>2017</b> , 163, 330-336	10.3	64
233	Analysis of pharmaceutical heparins and potential contaminants using (1)H-NMR and PAGE. <i>Journal of Pharmaceutical Sciences</i> , <b>2009</b> , 98, 4017-26	3.9	63
232	Kinetic and structural studies on interactions between heparin or heparan sulfate and proteins of the hedgehog signaling pathway. <i>Biochemistry</i> , <b>2007</b> , 46, 3933-41	3.2	63
231	Isolation and characterization of heparan sulfate from various murine tissues. <i>Glycoconjugate Journal</i> , <b>2006</b> , 23, 555-63	3	63
230	Identification and characterization of a glycosaminoglycan recognition element of the C chemokine lymphotactin. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 12598-604	5.4	62
229	Compositional analysis of heparin/heparan sulfate interacting with fibroblast growth factor.fibroblast growth factor receptor complexes. <i>Biochemistry</i> , <b>2009</b> , 48, 8379-86	3.2	61
228	Ultra-performance ion-pairing liquid chromatography with on-line electrospray ion trap mass spectrometry for heparin disaccharide analysis. <i>Analytical Biochemistry</i> , <b>2011</b> , 415, 59-66	3.1	61
227	Molecular mechanisms of bioactive polysaccharides from Ganoderma lucidum (Lingzhi), a review. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 150, 765-774	7.9	59
226	Analysis of Total Human Urinary Glycosaminoglycan Disaccharides by Liquid Chromatography-Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 6220-7	7.8	58
225	Metabolic engineering of Chinese hamster ovary cells: towards a bioengineered heparin. <i>Metabolic Engineering</i> , <b>2012</b> , 14, 81-90	9.7	57
224	Structure and bioactivity of a polysaccharide containing uronic acid from Polyporus umbellatus sclerotia. <i>Carbohydrate Polymers</i> , <b>2016</b> , 152, 222-230	10.3	54
223	Structural characterization of heparins from different commercial sources. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 401, 2793-803	4.4	53
222	Circulating heparan sulfate fragments mediate septic cognitive dysfunction. <i>Journal of Clinical Investigation</i> , <b>2019</b> , 129, 1779-1784	15.9	52

221	Control of promatrilysin (MMP7) activation and substrate-specific activity by sulfated glycosaminoglycans. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 27924-27932	5.4	52
220	A novel structural fucosylated chondroitin sulfate from <i>Holothuria Mexicana</i> and its effects on growth factors binding and anticoagulation. <i>Carbohydrate Polymers</i> , <b>2018</b> , 181, 1160-1168	10.3	51
219	Fibroblast Growth Factor Signaling Mediates Pulmonary Endothelial Glycocalyx Reconstitution. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2017</b> , 56, 727-737	5.7	50
218	A highly stable covalent conjugated heparin biochip for heparin-protein interaction studies. <i>Analytical Biochemistry</i> , <b>2002</b> , 304, 271-3	3.1	48
217	Glycan Determinants of Heparin-Tau Interaction. <i>Biophysical Journal</i> , <b>2017</b> , 112, 921-932	2.9	47
216	High structural resolution hydroxyl radical protein footprinting reveals an extended Robo1-heparin binding interface. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 10729-40	5.4	46
215	Isolation of bovine corneal keratan sulfate and its growth factor and morphogen binding. <i>FEBS Journal</i> , <b>2013</b> , 280, 2285-93	5.7	46
214	A mutant-cell library for systematic analysis of heparan sulfate structure-function relationships. <i>Nature Methods</i> , <b>2018</b> , 15, 889-899	21.6	42
213	A structural analysis of glycosaminoglycans from lethal and nonlethal breast cancer tissues: toward a novel class of theragnostics for personalized medicine in oncology?. <i>OMICS A Journal of Integrative Biology</i> , <b>2012</b> , 16, 79-89	3.8	41
212	3-O-Sulfation of Heparan Sulfate Enhances Tau Interaction and Cellular Uptake. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 1818-1827	16.4	40
211	Capillary Electrophoresis-Mass Spectrometry for the Analysis of Heparin Oligosaccharides and Low Molecular Weight Heparin. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 1937-43	7.8	39
210	Pharmacokinetics and pharmacodynamics of oral heparin solid dosage form in healthy human subjects. <i>Journal of Clinical Pharmacology</i> , <b>2007</b> , 47, 1508-20	2.9	38
209	Analysis of heparin oligosaccharides by capillary electrophoresis-negative-ion electrospray ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 411-420	4.4	34
208	Microscale isolation and analysis of heparin from plasma using an anion-exchange spin column. <i>Analytical Biochemistry</i> , <b>2006</b> , 353, 284-6	3.1	34
207	Prominent members of the human gut microbiota express endo-acting O-glycanases to initiate mucin breakdown. <i>Nature Communications</i> , <b>2020</b> , 11, 4017	17.4	34
206	Structural Analysis of Heparin-Derived 3-O-Sulfated Tetrasaccharides: Antithrombin Binding Site Variants. <i>Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 106, 973-981	3.9	33
205	Cocaine Exposure Modulates Perineuronal Nets and Synaptic Excitability of Fast-Spiking Interneurons in the Medial Prefrontal Cortex. <i>ENeuro</i> , <b>2018</b> , 5,	3.9	33
204	Sequencing the Dermatan Sulfate Chain of Decorin. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 16986-16995	16.4	32

203	Purification and structural elucidation of a water-soluble polysaccharide from the fruiting bodies of the <i>Grifola frondosa</i> . <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 115, 221-226	7.9	31
202	Polymorphic factor H-binding activity of CspA protects Lyme borreliae from the host complement in feeding ticks to facilitate tick-to-host transmission. <i>PLoS Pathogens</i> , <b>2018</b> , 14, e1007106	7.6	31
201	Method to detect contaminants in heparin using radical depolymerization and liquid chromatography-mass spectrometry. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 326-30	7.8	31
200	Analysis of Heparins Derived From Bovine Tissues and Comparison to Porcine Intestinal Heparins. <i>Clinical and Applied Thrombosis/Hemostasis</i> , <b>2016</b> , 22, 520-7	3.3	31
199	Structure and activity of a new low-molecular-weight heparin produced by enzymatic ultrafiltration. <i>Journal of Pharmaceutical Sciences</i> , <b>2014</b> , 103, 1375-83	3.9	30
198	Structural determinants of heparan sulfate interactions with Slit proteins. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 317, 352-7	3.4	30
197	The structure-activity relationship of the interactions of SARS-CoV-2 spike glycoproteins with glucuronomannan and sulfated galactofucan from <i>Saccharina japonica</i> . <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 163, 1649-1658	7.9	30
196	Construction and characterisation of a heparan sulphate heptasaccharide microarray. <i>Chemical Communications</i> , <b>2017</b> , 53, 1743-1746	5.8	29
195	Comparison of the Interactions of Different Growth Factors and Glycosaminoglycans. <i>Molecules</i> , <b>2019</b> , 24,	4.8	29
194	Analysis of 3-O-sulfo group-containing heparin tetrasaccharides in heparin by liquid chromatography-mass spectrometry. <i>Analytical Biochemistry</i> , <b>2014</b> , 455, 3-9	3.1	29
193	Metabolic engineering of cyanobacteria for photoautotrophic production of heparosan, a pharmaceutical precursor of heparin. <i>Algal Research</i> , <b>2019</b> , 37, 57-63	5	29
192	Extraction, structure and bioactivities of the polysaccharides from <i>Pleurotus eryngii</i> : A review. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 150, 1342-1347	7.9	28
191	Heavy Heparin: A Stable Isotope-Enriched, Chemoenzymatically-Synthesized, Poly-Component Drug. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 5962-5966	16.4	27
190	Extraction temperature is a decisive factor for the properties of pectin. <i>Food Hydrocolloids</i> , <b>2021</b> , 112, 106160	10.6	27
189	Response surface optimization of the heparosan N-deacetylation in producing bioengineered heparin. <i>Journal of Biotechnology</i> , <b>2011</b> , 156, 188-96	3.7	26
188	Structural characterization of glycosaminoglycans from zebrafish in different ages. <i>Glycoconjugate Journal</i> , <b>2009</b> , 26, 211-8	3	26
187	Glycosaminoglycan binding motif at S1/S2 proteolytic cleavage site on spike glycoprotein may facilitate novel coronavirus (SARS-CoV-2) host cell entry		26
186	Characterization of the interaction between Robo1 and heparin and other glycosaminoglycans. <i>Biochimie</i> , <b>2013</b> , 95, 2345-53	4.6	25

185	Biodegradable and Bioactive PCL-PGS Core-Shell Fibers for Tissue Engineering. <i>ACS Omega</i> , <b>2017</b> , 2, 6321-6328	3.9	24
184	Epithelial Heparan Sulfate Contributes to Alveolar Barrier Function and Is Shed during Lung Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2018</b> , 59, 363-374	5.7	24
183	Characterization of interactions between heparin/glycosaminoglycan and adeno-associated virus. <i>Biochemistry</i> , <b>2013</b> , 52, 6275-85	3.2	24
182	Functional role of glycosaminoglycans in decellularized lung extracellular matrix. <i>Acta Biomaterialia</i> , <b>2020</b> , 102, 231-246	10.8	24
181	A flexible carbon/sulfur-cellulose core-shell structure for advanced lithium-sulfur batteries. <i>Energy Storage Materials</i> , <b>2018</b> , 15, 388-395	19.4	23
180	Immobilized enzymes to convert N-sulfo, N-acetyl heparosan to a critical intermediate in the production of bioengineered heparin. <i>Journal of Biotechnology</i> , <b>2013</b> , 167, 241-7	3.7	23
179	Impact of autoclave sterilization on the activity and structure of formulated heparin. <i>Journal of Pharmaceutical Sciences</i> , <b>2011</b> , 100, 3396-3404	3.9	23
178	Heparin/heparan sulfate analysis by covalently modified reverse polarity capillary zone electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , <b>2018</b> , 1545, 75-83	4.5	22
177	Kinetic and Structural Studies of Interactions between Glycosaminoglycans and Langerin. <i>Biochemistry</i> , <b>2016</b> , 55, 4552-9	3.2	22
176	Changes in composition and sulfation patterns of glycoaminoglycans in renal cell carcinoma. <i>Glycoconjugate Journal</i> , <b>2016</b> , 33, 103-12	3	22
175	Divergent effect of glycosaminoglycans on the in vitro aggregation of serum amyloid A. <i>Biochimie</i> , <b>2014</b> , 104, 70-80	4.6	22
174	Copper regulates the interactions of antimicrobial piscidin peptides from fish mast cells with formyl peptide receptors and heparin. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 15381-15396	5.4	22
173	Major Differences between the Self-Assembly and Seeding Behavior of Heparin-Induced and in Vitro Phosphorylated Tau and Their Modulation by Potential Inhibitors. <i>ACS Chemical Biology</i> , <b>2019</b> , 14, 1363-1379	4.9	21
172	Expedient Synthesis of Core Disaccharide Building Blocks from Natural Polysaccharides for Heparan Sulfate Oligosaccharide Assembly. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 18577-18583	16.4	21
171	Optimization of bioprocess conditions improves production of a CHO cell-derived, bioengineered heparin. <i>Biotechnology Journal</i> , <b>2015</b> , 10, 1067-81	5.6	21
170	Effective Inhibition of SARS-CoV-2 Entry by Heparin and Enoxaparin Derivatives <b>2020</b> ,		21
169	Design of anti-inflammatory heparan sulfate to protect against acetaminophen-induced acute liver failure. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	20
168	Structure and conformation of $\beta$ -glucan extracted from <i>Agaricus blazei</i> Murill by high-speed shearing homogenization. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 113, 558-564	7.9	20

167	Surface modification of a polyethylene film for anticoagulant and anti-microbial catheter. <i>Reactive and Functional Polymers</i> , <b>2016</b> , 100, 142-150	4.6	20
166	Porphyrin-based compounds and their applications in materials and medicine. <i>Dyes and Pigments</i> , <b>2021</b> , 188, 109136	4.6	20
165	Comprehensive Identification and Quantitation of Basic Building Blocks for Low-Molecular Weight Heparin. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 7738-44	7.8	20
164	The 2.8Å Electron Microscopy Structure of Adeno-Associated Virus-DJ Bound by a Heparinoid Pentasaccharide. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2017</b> , 5, 1-12	6.4	19
163	Glycosaminoglycans and glycolipids as potential biomarkers in lung cancer. <i>Glycoconjugate Journal</i> , <b>2017</b> , 34, 661-669	3	19
162	Comparative Genomics Reveals Specific Genetic Architectures in Nicotine Metabolism of sp. JY-Q. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 2085	5.7	19
161	<i>Borrelia burgdorferi</i> glycosaminoglycan-binding proteins: a potential target for new therapeutics against Lyme disease. <i>Microbiology (United Kingdom)</i> , <b>2017</b> , 163, 1759-1766	2.9	18
160	Structural studies of the interaction of <i>Crataeva tapia</i> bark protein with heparin and other glycosaminoglycans. <i>Biochemistry</i> , <b>2013</b> , 52, 2148-56	3.2	18
159	Compositional analysis and structural elucidation of glycosaminoglycans in chicken eggs. <i>Glycoconjugate Journal</i> , <b>2014</b> , 31, 593-602	3	18
158	Biophysical characterization of glycosaminoglycan-IL-7 interactions using SPR. <i>Biochimie</i> , <b>2012</b> , 94, 242-94.6	4.6	18
157	Glycosaminoglycans of the porcine central nervous system. <i>Biochemistry</i> , <b>2010</b> , 49, 9839-47	3.2	18
156	Analysis of the Glycosaminoglycan Chains of Proteoglycans. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2021</b> , 69, 121-135	3.4	18
155	Glycosaminoglycan Compositional Analysis of Relevant Tissues in Zika Virus Pathogenesis and in Vitro Evaluation of Heparin as an Antiviral against Zika Virus Infection. <i>Biochemistry</i> , <b>2019</b> , 58, 1155-1166	3.2	17
154	Gas-Phase Analysis of the Complex of Fibroblast Growth Factor 1 with Heparan Sulfate: A Traveling Wave Ion Mobility Spectrometry (TWIMS) and Molecular Modeling Study. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2017</b> , 28, 96-109	3.5	17
153	SPR Biosensor Probing the Interactions between TIMP-3 and Heparin/GAGs. <i>Biosensors</i> , <b>2015</b> , 5, 500-12	5.9	17
152	The Application of Seaweed Polysaccharides and Their Derived Products with Potential for the Treatment of Alzheimer's Disease. <i>Marine Drugs</i> , <b>2021</b> , 19,	6	17
151	Enzymatic Generation of Highly Anticoagulant Bovine Intestinal Heparin. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 8673-8679	8.3	16
150	Glycosaminoglycans from bovine eye vitreous humour and interaction with collagen type II. <i>Glycoconjugate Journal</i> , <b>2018</b> , 35, 119-128	3	16



149	Novel method for measurement of heparin anticoagulant activity using SPR. <i>Analytical Biochemistry</i> , <b>2017</b> , 526, 39-42	3.1	15
148	Heparin stability by determining unsubstituted amino groups using hydrophilic interaction chromatography mass spectrometry. <i>Analytical Biochemistry</i> , <b>2014</b> , 461, 46-8	3.1	15
147	Microanalysis of stomach cancer glycosaminoglycans. <i>Glycoconjugate Journal</i> , <b>2013</b> , 30, 701-7	3	15
146	Top-down and bottom-up analysis of commercial enoxaparins. <i>Journal of Chromatography A</i> , <b>2017</b> , 1480, 32-40	4.5	14
145	Unique Cell Surface Mannan of Yeast Pathogen with Selective Binding to IgG. <i>ACS Infectious Diseases</i> , <b>2020</b> , 6, 1018-1031	5.5	14
144	Examination of Glycosaminoglycan Binding Sites on the XCL1 Dimer. <i>Biochemistry</i> , <b>2016</b> , 55, 1214-25	3.2	14
143	Structural and immunological studies on the polysaccharide from spores of a medicinal entomogenous fungus <i>Paecilomyces cicadae</i> . <i>Carbohydrate Polymers</i> , <b>2021</b> , 254, 117462	10.3	14
142	Parent heparin and daughter LMW heparin correlation analysis using LC-MS and NMR. <i>Analytica Chimica Acta</i> , <b>2017</b> , 961, 91-99	6.6	13
141	Antithrombin III-Binding Site Analysis of Low-Molecular-Weight Heparin Fractions. <i>Journal of Pharmaceutical Sciences</i> , <b>2018</b> , 107, 1290-1295	3.9	13
140	Bottom-up and top-down profiling of pentosan polysulfate. <i>Analyst, The</i> , <b>2019</b> , 144, 4781-4786	5	13
139	Stable isotopic analysis of porcine, bovine, and ovine heparins. <i>Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 104, 457-63	3.9	13
138	Heparan sulfates from bat and human lung and their binding to the spike protein of SARS-CoV-2 virus. <i>Carbohydrate Polymers</i> , <b>2021</b> , 260, 117797	10.3	13
137	Structural elucidation of polysaccharide containing 3-O-methyl galactose from fruiting bodies of <i>Pleurotus citrinopileatus</i> . <i>Carbohydrate Research</i> , <b>2016</b> , 434, 72-76	2.9	13
136	Decline in arylsulfatase B expression increases EGFR expression by inhibiting the protein-tyrosine phosphatase SHP2 and activating JNK in prostate cells. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 11076-11087 <sup>13</sup>	5.4	13
135	A comparative secretome analysis of industrial <i>Aspergillus oryzae</i> and its spontaneous mutant ZJGS-LZ-21. <i>International Journal of Food Microbiology</i> , <b>2017</b> , 248, 1-9	5.8	12
134	Online Capillary Zone Electrophoresis Negative Electron Transfer Dissociation Tandem Mass Spectrometry of Glycosaminoglycan Mixtures. <i>International Journal of Mass Spectrometry</i> , <b>2019</b> , 445, 116209-116209	1.9	12
133	High cell density cultivation of recombinant <i>Escherichia coli</i> strains expressing 2-O-sulfotransferase and C5-epimerase for the production of bioengineered heparin. <i>Applied Biochemistry and Biotechnology</i> , <b>2015</b> , 175, 2986-95	3.2	12
132	Keratan sulfate glycosaminoglycan from chicken egg white. <i>Glycobiology</i> , <b>2016</b> , 26, 693-700	5.8	12



131	Heparan Sulfate Facilitates Spike Protein-Mediated SARS-CoV-2 Host Cell Invasion and Contributes to Increased Infection of SARS-CoV-2 G614 Mutant and in Lung Cancer. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 649575	5.6	12
130	Glycosaminoglycans in human cerebrospinal fluid determined by LC-MS/MS MRM. <i>Analytical Biochemistry</i> , <b>2019</b> , 567, 82-84	3.1	12
129	Expression and secretion of glycosylated heparin biosynthetic enzymes using <i>Komagataella pastoris</i> . <i>Applied Microbiology and Biotechnology</i> , <b>2017</b> , 101, 2843-2851	5.7	11
128	Endothelial Glycocalyx Shedding Predicts Donor Organ Acceptability and Is Associated With Primary Graft Dysfunction in Lung Transplant Recipients. <i>Transplantation</i> , <b>2019</b> , 103, 1277-1285	1.8	11
127	Digestibility of squash polysaccharide under simulated salivary, gastric and intestinal conditions and its impact on short-chain fatty acid production in type-2 diabetic rats. <i>Carbohydrate Polymers</i> , <b>2020</b> , 235, 115904	10.3	11
126	Characterization of human placental glycosaminoglycans and regional binding to VAR2CSA in malaria infected erythrocytes. <i>Glycoconjugate Journal</i> , <b>2014</b> , 31, 109-16	3	11
125	Surprising absence of heparin in the intestinal mucosa of baby pigs. <i>Glycobiology</i> , <b>2017</b> , 27, 57-63	5.8	11
124	Cell-Based Microscale Isolation of Glycoaminoglycans for Glycomics Study. <i>Journal of Carbohydrate Chemistry</i> , <b>2012</b> , 31, 420-435	1.7	11
123	Analysis of the interaction between heparin and follistatin and heparin and follistatin-ligand complexes using surface plasmon resonance. <i>Biochemistry</i> , <b>2012</b> , 51, 6797-803	3.2	11
122	Recent Progress of Marine Polypeptides as Anticancer Agents. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , <b>2018</b> , 13, 445-454	2.6	11
121	Selective, switchable fluorescent probe for heparin based on aggregation-induced emission. <i>Analytical Biochemistry</i> , <b>2016</b> , 514, 48-54	3.1	11
120	-stimulated crosslinking of catechol-conjugated hydroxyethyl chitosan as a tissue adhesive. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2019</b> , 107, 582-593	3.5	11
119	Structural analysis of urinary glycosaminoglycans from healthy human subjects. <i>Glycobiology</i> , <b>2020</b> , 30, 143-151	5.8	11
118	A simple strategy for the separation and purification of water-soluble polysaccharides from the fresh <i>Spirulina platensis</i> . <i>Separation Science and Technology</i> , <b>2017</b> , 52, 456-466	2.5	10
117	Enzymatic Synthesis of Chondroitin Sulfate E to Attenuate Bacteria Lipopolysaccharide-Induced Organ Damage. <i>ACS Central Science</i> , <b>2020</b> , 6, 1199-1207	16.8	10
116	Structural and Functional Components of the Skate Sensory Organ Ampullae of <i>Lorenzini</i> . <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 1677-1685	4.9	10
115	Akebia saponin D reverses corticosterone hypersecretion in an Alzheimer's disease rat model. <i>Biomedicine and Pharmacotherapy</i> , <b>2018</b> , 107, 219-225	7.5	10
114	Highly purified fucosylated chondroitin sulfate oligomers with selective intrinsic factor Xase complex inhibition. <i>Carbohydrate Polymers</i> , <b>2019</b> , 222, 115025	10.3	10

113	Heparinoids activate a protease, secreted by mucosa and tumors, via tethering supplemented by allostery. <i>ACS Chemical Biology</i> , <b>2014</b> , 9, 957-66	4.9	10
112	Construction and functional characterization of truncated versions of recombinant keratanase II from <i>Bacillus circulans</i> . <i>Glycoconjugate Journal</i> , <b>2017</b> , 34, 643-649	3	10
111	Improved octyl glucoside synthesis using immobilized $\beta$ -glucosidase on PA-M with reduced glucose surplus inhibition. <i>Biocatalysis and Biotransformation</i> , <b>2017</b> , 35, 349-362	2.5	10
110	Regulation of PTP1B activation through disruption of redox-complex formation. <i>Nature Chemical Biology</i> , <b>2020</b> , 16, 122-125	11.7	10
109	Synthetic heparan sulfate standards and machine learning facilitate the development of solid-state nanopore analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	10
108	GlycCompSoft: Software for Automated Comparison of Low Molecular Weight Heparins Using Top-Down LC/MS Data. <i>PLoS ONE</i> , <b>2016</b> , 11, e0167727	3.7	10
107	Chemometric analysis of porcine, bovine and ovine heparins. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2019</b> , 164, 345-352	3.5	10
106	Glycosaminoglycans from fish swim bladder: isolation, structural characterization and bioactive potential. <i>Glycoconjugate Journal</i> , <b>2018</b> , 35, 87-94	3	10
105	Characterization and comparative analysis of toxin-antitoxin systems in <i>Acetobacter pasteurianus</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>2019</b> , 46, 869-882	4.2	9
104	Effects of fermentation on the hemolytic activity and degradation of <i>Camellia oleifera</i> saponins by <i>Lactobacillus crustorum</i> and <i>Bacillus subtilis</i> . <i>FEMS Microbiology Letters</i> , <b>2018</b> , 365,	2.9	9
103	Microscale separation of heparosan, heparan sulfate, and heparin. <i>Analytical Biochemistry</i> , <b>2013</b> , 434, 215-7	3.1	9
102	Separation of acidic glycoprotein glycoforms using affinity-based reversed micellar extraction and separation. <i>Biotechnology and Bioengineering</i> , <b>2000</b> , 70, 484-490	4.9	9
101	Mechanism of enhanced oral absorption of akebia saponin D by a self-nanoemulsifying drug delivery system loaded with phospholipid complex. <i>Drug Development and Industrial Pharmacy</i> , <b>2019</b> , 45, 124-129	3.6	9
100	Impact of Temperature on Heparin and Protein Interactions. <i>Biochemistry &amp; Physiology</i> , <b>2018</b> , 7,		9
99	Specificity and action pattern of heparanase Bp, a $\beta$ -glucuronidase from <i>Burkholderia pseudomallei</i> . <i>Glycobiology</i> , <b>2019</b> , 29, 572-581	5.8	8
98	Structural analysis of a novel sulfated galacto-fuco-xylo-glucurono-mannan from <i>Sargassum fusiforme</i> and its anti-lung cancer activity. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 149, 450-458	7.9	8
97	Heparin's solution structure determined by small-angle neutron scattering. <i>Biopolymers</i> , <b>2016</b> , 105, 905-13		8
96	Quantitation of heparosan with heparin lyase III and spectrophotometry. <i>Analytical Biochemistry</i> , <b>2014</b> , 447, 46-8	3.1	8

95	Detection of cerebrospinal fluid leakage by specific measurement of transferrin glycoforms. <i>Electrophoresis</i> , <b>2015</b> , 36, 2425-32	3.6	8
94	Mass balance analysis of contaminated heparin product. <i>Analytical Biochemistry</i> , <b>2011</b> , 408, 147-56	3.1	8
93	Urinary metabolomics analysis reveals the anti-diabetic effect of stachyose in high-fat diet/streptozotocin-induced type 2 diabetic rats. <i>Carbohydrate Polymers</i> , <b>2020</b> , 229, 115534	10.3	8
92	Combined genomic and transcriptomic analysis of the dibutyl phthalate metabolic pathway in <i>Arthrobacter</i> sp. ZJUTW. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 3712-3726	4.9	8
91	Biotechnology progress for removal of indoor gaseous formaldehyde. <i>Applied Microbiology and Biotechnology</i> , <b>2020</b> , 104, 3715-3727	5.7	7
90	Abnormally High Content of Free Glucosamine Residues Identified in a Preparation of Commercially Available Porcine Intestinal Heparan Sulfate. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 6648-52	7.8	7
89	Probing the impact of GFP tagging on Robo1-heparin interaction. <i>Glycoconjugate Journal</i> , <b>2014</b> , 31, 299-307		7
88	Glycan Activation of a Sheddase: Electrostatic Recognition between Heparin and proMMP-7. <i>Structure</i> , <b>2017</b> , 25, 1100-1110.e5	5.2	7
87	Structural and kinetic analyses of holothurian sulfated glycans suggest potential treatment for SARS-CoV-2 infection. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 297, 101207	5.4	7
86	Lipase-catalyzed ring-opening copolymerization of $\epsilon$ -pentadecalactone and $\epsilon$ -valerolactone by reactive extrusion. <i>Green Chemistry</i> , <b>2020</b> , 22, 662-668	10	6
85	Structural characterization and anti-lung cancer activity of a sulfated glucurono-xylo-rhamnan from <i>Enteromorpha prolifera</i> . <i>Carbohydrate Polymers</i> , <b>2020</b> , 237, 116143	10.3	6
84	Recombinant <i>Escherichia coli</i> K5 strain with the deletion of waaR gene decreases the molecular weight of the heparosan capsular polysaccharide. <i>Applied Microbiology and Biotechnology</i> , <b>2016</b> , 100, 7877-85	5.7	6
83	Glycan Markers of Human Stem Cells Assigned with Beam Search Arrays. <i>Molecular and Cellular Proteomics</i> , <b>2019</b> , 18, 1981-2002	7.6	6
82	A purification process for heparin and precursor polysaccharides using the pH responsive behavior of chitosan. <i>Biotechnology Progress</i> , <b>2015</b> , 31, 1348-59	2.8	6
81	Studies on the effect of calcium in interactions between heparin and heparin cofactor II using surface plasmon resonance. <i>Clinical and Applied Thrombosis/Hemostasis</i> , <b>2004</b> , 10, 249-57	3.3	6
80	Expression and functional identification of two homologous nicotine dehydrogenases, NicA2 and Nox, from <i>Pseudomonas</i> sp. JY-Q. <i>Protein Expression and Purification</i> , <b>2021</b> , 178, 105767	2	6
79	The Responses of Hyperglycemic Dividing Mesangial Cells to Heparin Are Mediated by the Non-reducing Terminal Trisaccharide. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 29045-50	5.4	5
78	Structural characterization of a clinically described heparin-like substance in plasma causing bleeding. <i>Carbohydrate Polymers</i> , <b>2020</b> , 244, 116443	10.3	5

77	Interactions of fibroblast growth factors with sulfated galactofucan from <i>Saccharina japonica</i> . <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 160, 26-34	7.9	5
76	Glycosaminoglycans in Neurodegenerative Diseases. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1325, 189-204	3.6	5
75	Evaluating Heparin Products for Heparin-Induced Thrombocytopenia Using Surface Plasmon Resonance. <i>Journal of Pharmaceutical Sciences</i> , <b>2020</b> , 109, 975-980	3.9	5
74	Non-Anticoagulant Low Molecular Weight Heparins for Pharmaceutical Applications. <i>Journal of Medicinal Chemistry</i> , <b>2019</b> , 62, 1067-1073	8.3	5
73	Amphiphilic bromelain-synthesized oligo-phenylalanine grafted with methoxypolyethylene glycol possessing stabilizing thermo-responsive emulsion properties. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 538, 1-14	9.3	5
72	A rolling circle amplification based platform for ultrasensitive detection of heparin. <i>Analyst, The</i> , <b>2021</b> , 146, 714-720	5	5
71	The abnormal accumulation of heparan sulfate in patients with mucopolysaccharidosis prevents the elastolytic activity of cathepsin V. <i>Carbohydrate Polymers</i> , <b>2021</b> , 253, 117261	10.3	5
70	Loss of endothelial sulfatase-1 after experimental sepsis attenuates subsequent pulmonary inflammatory responses. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2019</b> , 317, L667-L677	5.8	4
69	Structural characteristics and anti-complement activities of polysaccharides from <i>Sargassum hemiphyllum</i> . <i>Glycoconjugate Journal</i> , <b>2020</b> , 37, 553-563	3	4
68	Non-anticoagulant Heparin as a Pre-exposure Prophylaxis Prevents Lyme Disease Infection. <i>ACS Infectious Diseases</i> , <b>2020</b> , 6, 503-514	5.5	4
67	Increased soluble heterologous expression of a rat brain 3-O-sulfotransferase 1 - A key enzyme for heparin biosynthesis. <i>Protein Expression and Purification</i> , <b>2018</b> , 151, 23-29	2	4
66	Expedient Synthesis of Core Disaccharide Building Blocks from Natural Polysaccharides for Heparan Sulfate Oligosaccharide Assembly. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 18750-18756	3.6	4
65	Interactions between nattokinase and heparin/GAGs. <i>Glycoconjugate Journal</i> , <b>2015</b> , 32, 695-702	3	4
64	Increased CHST15 follows decline in arylsulfatase B (ARSB) and disinhibition of non-canonical WNT signaling: potential impact on epithelial and mesenchymal identity. <i>Oncotarget</i> , <b>2020</b> , 11, 2327-2344	3.3	4
63	A Novel Laminin-Binding Protein Mediates Microbial-Endothelial Cell Interactions and Facilitates Dissemination of Lyme Disease Pathogens. <i>Journal of Infectious Diseases</i> , <b>2020</b> , 221, 1438-1447	7	4
62	Fabrication of homotypic neural ribbons as a multiplex platform optimized for spinal cord delivery. <i>Scientific Reports</i> , <b>2020</b> , 10, 12939	4.9	4
61	Fucosylated Chondroitin Sulfate 9-18 Oligomers Exhibit Molecular Size-Independent Antithrombotic Activity while Circulating in the Blood. <i>ACS Chemical Biology</i> , <b>2020</b> , 15, 2232-2246	4.9	4
60	PBN11-8, a Cytotoxic Polypeptide Purified from Marine , Suppresses Invasion and Migration of Human Hepatocellular Carcinoma Cells by Targeting Focal Adhesion Kinase Pathways. <i>Polymers</i> , <b>2018</b> , 10,	4.5	4

59	High-throughput method for in process monitoring of 3-O-sulfotransferase catalyzed sulfonation in bioengineered heparin synthesis. <i>Analytical Biochemistry</i> , <b>2019</b> , 586, 113419	3.1	3
58	Preparation of solidoside with n-butyl $\beta$ -D-glucoside as the glycone donor via a two-step enzymatic synthesis catalyzed by immobilized $\beta$ -glucosidase from bitter almonds. <i>Biocatalysis and Biotransformation</i> , <b>2019</b> , 37, 246-260	2.5	3
57	Comparison of Low-Molecular-Weight Heparins Prepared From Ovine Heparins With Enoxaparin. <i>Clinical and Applied Thrombosis/Hemostasis</i> , <b>2019</b> , 25, 1076029619840701	3.3	3
56	Heparin Contamination and Issues Related to Raw Materials and Controls. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , <b>2019</b> , 191-206	0.5	3
55	Production of a low molecular weight heparin using recombinant glycuronidase [corrected]. <i>Carbohydrate Polymers</i> , <b>2015</b> , 134, 151-7	10.3	3
54	Structural Features of Heparin and Its Interactions With Cellular Prion Protein Measured by Surface Plasmon Resonance. <i>Frontiers in Molecular Biosciences</i> , <b>2020</b> , 7, 594497	5.6	3
53	Amphiphilic mPEG-Modified Oligo-Phenylalanine Nanoparticles Chemoenzymatically Synthesized via Papain. <i>ACS Omega</i> , <b>2020</b> , 5, 30336-30347	3.9	3
52	Mass spectrometric evidence for the mechanism of free-radical depolymerization of various types of glycosaminoglycans. <i>Carbohydrate Polymers</i> , <b>2020</b> , 233, 115847	10.3	3
51	Structural Characterization and Interaction with RCA of a Highly Sulfated Keratan Sulfate from Blue Shark ( <i>Prionace glauca</i> ) Cartilage. <i>Marine Drugs</i> , <b>2018</b> , 16,	6	3
50	Comparative proteomics of matrix fractions between pimped and normal chicken eggshells. <i>Journal of Proteomics</i> , <b>2017</b> , 167, 1-11	3.9	3
49	Circadian control of heparan sulfate levels times phagocytosis of amyloid beta aggregates.. <i>PLoS Genetics</i> , <b>2022</b> , 18, e1009994	6	3
48	Anti-SARS-CoV-2 Activity of Rhamnan Sulfate from .. <i>Marine Drugs</i> , <b>2021</b> , 19,	6	3
47	Xylosyltransferase 2 deficiency and organ homeostasis. <i>Glycoconjugate Journal</i> , <b>2020</b> , 37, 755-765	3	3
46	FAM20B-catalyzed glycosaminoglycans control murine tooth number by restricting FGFR2b signaling. <i>BMC Biology</i> , <b>2020</b> , 18, 87	7.3	3
45	A Revised Structure for the Glycolipid Terminus of K5 Heparosan Capsular Polysaccharide. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	3
44	Filter-entrapment enrichment pull-down assay for glycosaminoglycan structural characterization and protein interaction. <i>Carbohydrate Polymers</i> , <b>2020</b> , 245, 116623	10.3	3
43	Mapping the Structural and Dynamic Determinants of pH-Sensitive Heparin Binding to Granulocyte Macrophage Colony Stimulating Factor. <i>Biochemistry</i> , <b>2020</b> , 59, 3541-3553	3.2	3
42	The Sulfation Code of Tauopathies: Heparan Sulfate Proteoglycans in the Prion Like Spread of Tau Pathology. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 671458	5.6	3

41	Construction of heparan sulfate microarray for investigating the binding of specific saccharide sequences to proteins. <i>Glycobiology</i> , <b>2021</b> , 31, 188-199	5.8	3
40	Oral Administration of Fucosylated Chondroitin Sulfate Oligomers in Gastro-Resistant Microcapsules Exhibits a Safe Antithrombotic Activity. <i>Thrombosis and Haemostasis</i> , <b>2021</b> , 121, 15-26	7	3
39	Bioengineered production of glycosaminoglycans and their analogues. <i>Systems Microbiology and Biomanufacturing</i> , <b>2021</b> , 1, 123-130		3
38	Differential Effects of Homologous Transcriptional Regulators NicR2A, NicR2B1, and NicR2B2 and Endogenous Ectopic Strong Promoters on Nicotine Metabolism in sp. Strain JY-Q. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , 87,	4.8	3
37	Dimerization interface of osteoprotegerin revealed by hydrogen-deuterium exchange mass spectrometry. <i>Journal of Biological Chemistry</i> , <b>2018</b> , 293, 17523-17535	5.4	3
36	Platelet factor 4 polyanion immune complexes: heparin induced thrombocytopenia and vaccine-induced immune thrombotic thrombocytopenia. <i>Thrombosis Journal</i> , <b>2021</b> , 19, 66	5.6	3
35	Characterization and application of a putative transcription factor (SUT2) in <i>Pichia pastoris</i> . <i>Molecular Genetics and Genomics</i> , <b>2020</b> , 295, 1295-1304	3.1	2
34	Structural analysis of a glucoglucuronan derived from laminarin and the mechanisms of its anti-lung cancer activity. <i>International Journal of Biological Macromolecules</i> , <b>2020</b> , 163, 776-787	7.9	2
33	Structural and activity variability of fractions with different charge density and chain length from pharmaceutical heparins. <i>Glycoconjugate Journal</i> , <b>2017</b> , 34, 545-552	3	2
32	Signal Amplification by Glyco-qPCR for Ultrasensitive Detection of Carbohydrates: Applications in Glycobiology. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 11970-11974	3.6	2
31	Glycosaminoglycans. <i>Advances in Experimental Medicine and Biology</i> , <b>2021</b> , 1325, 103-116	3.6	2
30	Interactions between Sclerostin and Glycosaminoglycans. <i>Glycoconjugate Journal</i> , <b>2020</b> , 37, 119-128	3	2
29	Identification, repair and characterization of a benzyl alcohol-inducible promoter for recombinant proteins overexpression in <i>Corynebacterium glutamicum</i> . <i>Enzyme and Microbial Technology</i> , <b>2020</b> , 141, 109651	3.8	2
28	Inhibition of glucuronomannan hexamer on the proliferation of lung cancer through binding with immunoglobulin G. <i>Carbohydrate Polymers</i> , <b>2020</b> , 248, 116785	10.3	2
27	Influence of bacterial culture medium on peptidoglycan binding of cell wall lytic enzymes. <i>Journal of Biotechnology</i> , <b>2021</b> , 330, 27-34	3.7	2
26	Red Algal Sulfated Galactan Binds and Protects Neural Cells from HIV-1 gp120 and Tat. <i>Pharmaceuticals</i> , <b>2021</b> , 14,	5.2	2
25	Heparin-mediated dimerization of follistatin. <i>Experimental Biology and Medicine</i> , <b>2021</b> , 246, 467-482	3.7	2
24	Probing Amyloid $\beta$ Interactions with Synthetic Heparan Sulfate Oligosaccharides. <i>ACS Chemical Biology</i> , <b>2021</b> , 16, 1894-1899	4.9	2



23	Additional Role of Nicotinic Acid Hydroxylase for the Transformation of 3-Succinoyl-Pyridine by sp. Strain JY-Q. <i>Applied and Environmental Microbiology</i> , <b>2021</b> , 87,	4.8	2
22	The degree of polymerization and sulfation patterns in heparan sulfate are critical determinants of cytomegalovirus entry into host cells. <i>PLoS Pathogens</i> , <b>2021</b> , 17, e1009803	7.6	2
21	Sustained release of Ganoderma lucidum antitumor drugs using a sandwich structured material prepared by electrospinning. <i>Journal of Drug Delivery Science and Technology</i> , <b>2021</b> , 64, 102627	4.5	2
20	Lipids Analysis and Rapid Identification of Cod Products. <i>European Journal of Lipid Science and Technology</i> , <b>2020</b> , 122, 1900444	3	1
19	Glycosaminoglycans from chicken muscular stomach or gizzard. <i>Glycoconjugate Journal</i> , <b>2017</b> , 34, 119-126		1
18	Pharmacokinetics and Pharmacodynamics of Oral Heparin Solid Dosage Form in Healthy Human Subjects.. <i>Blood</i> , <b>2007</b> , 110, 4009-4009	2.2	1
17	Implications of Glycosaminoglycans on Viral Zoonotic Diseases. <i>Diseases (Basel, Switzerland)</i> , <b>2021</b> , 9,	4.4	1
16	Designer DNA architecture offers precise and multivalent spatial pattern-recognition for viral sensing and inhibition		1
15	Comparative study on the mechanisms of anti-lung cancer activities of three sulfated galactofucans. <i>Food and Function</i> , <b>2021</b> , 12, 10644-10657	6.1	1
14	Characterization of Glycosaminoglycan Disaccharide Composition in Astrocyte Primary Cultures and the Cortex of Neonatal Rats. <i>Neurochemical Research</i> , <b>2021</b> , 46, 595-610	4.6	1
13	Preparation of Low Molecular Weight Heparin from a Remodeled Bovine Intestinal Heparin. <i>Journal of Medicinal Chemistry</i> , <b>2021</b> , 64, 2242-2253	8.3	1
12	GRASP depletion-mediated Golgi fragmentation impairs glycosaminoglycan synthesis, sulfation, and secretion.. <i>Cellular and Molecular Life Sciences</i> , <b>2022</b> , 79, 199	10.3	1
11	Fractionation of sulfated galactan from the red alga Botryocladia occidentalis separates its anticoagulant and anti-SARS-CoV-2 properties.. <i>Journal of Biological Chemistry</i> , <b>2022</b> , 101856	5.4	1
10	Intrinsically Disordered N-terminal Domain (NTD) of p53 Interacts with Mitochondrial PTP Regulator Cyclophilin D.. <i>Journal of Molecular Biology</i> , <b>2022</b> , 434, 167552	6.5	1
9	Homogalacturonan from squash: Characterization and tau-binding pattern of a sulfated derivative.. <i>Carbohydrate Polymers</i> , <b>2022</b> , 285, 119250	10.3	1
8	Site-specific immobilization of papain on DDI-modified polystyrene beads for the oligo(β-thyl-L-glutamate) synthesis. <i>Applied Catalysis A: General</i> , <b>2022</b> , 630, 118472	5.1	0
7	3-O-Sulfation of Heparan Sulfate Enhances Tau Interaction and Cellular Uptake. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 1834-1843	3.6	0
6	Cultivation of fractionated cells from a bioactive-alkaloid-bearing marine sponge Axinella sp. <i>In Vitro Cellular and Developmental Biology - Animal</i> , <b>2021</b> , 57, 539-549	2.6	0



- 5 MAPK/HOG signaling pathway induced stress-responsive damage repair is a mechanism for *Pichia pastoris* to survive from hyperosmotic stress. *Journal of Chemical Technology and Biotechnology*, **2021**, 96, 412-422 3.5 0
- 4 Isolation and structural characterization of glycosaminoglycans from heads of red salmon () **2014**, 1, 002
- 3 Circulating Endothelial Glycocalyx Fragments Impact Endothelial and Epithelial Repair after Septic Lung Injury. *FASEB Journal*, **2015**, 29, 863.9 0.9
- 2 Characterization of Peptide Activators of Protein Tyrosine Phosphatase 1B. *Free Radical Biology and Medicine*, **2020**, 159, S26-S27 7.8
- 1 Chemical O-sulfation of N-sulfoheparosan: a route to rare N-sulfo-3-O-sulfoglucosamine and 2-O-sulfoglucuronic acid. *Glycoconjugate Journal*, **2020**, 37, 589-597 3