

Fuming Zhang

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8523361/fuming-zhang-publications-by-year.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Site-specific immobilization of papain on DDI-modified polystyrene beads for the oligo(β-thyl-L-glutamate) synthesis. <i>Applied Catalysis A: General</i> , 2022 , 630, 118472	5.1	0
255	Circadian control of heparan sulfate levels times phagocytosis of amyloid beta aggregates.. <i>PLoS Genetics</i> , 2022 , 18, e1009994	6	3
254	GRASP depletion-mediated Golgi fragmentation impairs glycosaminoglycan synthesis, sulfation, and secretion.. <i>Cellular and Molecular Life Sciences</i> , 2022 , 79, 199	10.3	1
253	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 , 101856	5.4	1
252	Intrinsically Disordered N-terminal Domain (NTD) of p53 Interacts with Mitochondrial PTP Regulator Cyclophilin D.. <i>Journal of Molecular Biology</i> , 2022 , 434, 167552	6.5	1
251	Homogalacturonan from squash: Characterization and tau-binding pattern of a sulfated derivative.. <i>Carbohydrate Polymers</i> , 2022 , 285, 119250	10.3	1
250	Implications of Glycosaminoglycans on Viral Zoonotic Diseases. <i>Diseases (Basel, Switzerland)</i> , 2021 , 9,	4.4	1
249	Anti-SARS-CoV-2 Activity of Rhamnan Sulfate from .. <i>Marine Drugs</i> , 2021 , 19,	6	3
248	Glycosaminoglycans in Neurodegenerative Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1325, 189-204	3.6	5
247	Glycosaminoglycans. <i>Advances in Experimental Medicine and Biology</i> , 2021 , 1325, 103-116	3.6	2
246	Influence of bacterial culture medium on peptidoglycan binding of cell wall lytic enzymes. <i>Journal of Biotechnology</i> , 2021 , 330, 27-34	3.7	2
245	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> , 2021 , 118,	11.5	10
244	Porphyrin-based compounds and their applications in materials and medicine. <i>Dyes and Pigments</i> , 2021 , 188, 109136	4.6	20
243	Cultivation of fractionated cells from a bioactive-alkaloid-bearing marine sponge <i>Axinella</i> sp. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2021 , 57, 539-549	2.6	0
242	The Sulfation Code of Tauopathies: Heparan Sulfate Proteoglycans in the Prion Like Spread of Tau Pathology. <i>Frontiers in Molecular Biosciences</i> , 2021 , 8, 671458	5.6	3
241	Heparan sulfates from bat and human lung and their binding to the spike protein of SARS-CoV-2 virus. <i>Carbohydrate Polymers</i> , 2021 , 260, 117797	10.3	13
240	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> , 2021 , 8, 649575	5.6	12

239	Red Algal Sulfated Galactan Binds and Protects Neural Cells from HIV-1 gp120 and Tat. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	2
238	Analysis of the Glycosaminoglycan Chains of Proteoglycans. <i>Journal of Histochemistry and Cytochemistry</i> , 2021 , 69, 121-135	3.4	18
237	Extraction temperature is a decisive factor for the properties of pectin. <i>Food Hydrocolloids</i> , 2021 , 112, 106160	10.6	27
236	Construction of heparan sulfate microarray for investigating the binding of specific saccharide sequences to proteins. <i>Glycobiology</i> , 2021 , 31, 188-199	5.8	3
235	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> , 2021 , 178, 105767	2	6
234	Effective Inhibition of SARS-CoV-2 Entry by Heparin and Enoxaparin Derivatives. <i>Journal of Virology</i> , 2021 , 95,	6.6	82
233	A rolling circle amplification based platform for ultrasensitive detection of heparin. <i>Analyst, The</i> , 2021 , 146, 714-720	5	5
232	Heparin-mediated dimerization of follistatin. <i>Experimental Biology and Medicine</i> , 2021 , 246, 467-482	3.7	2
231	Structural and immunological studies on the polysaccharide from spores of a medicinal entomogenous fungus <i>Paecilomyces cicadae</i> . <i>Carbohydrate Polymers</i> , 2021 , 254, 117462	10.3	14
230	The abnormal accumulation of heparan sulfate in patients with mucopolysaccharidosis prevents the elastolytic activity of cathepsin V. <i>Carbohydrate Polymers</i> , 2021 , 253, 117261	10.3	5
229	Oral Administration of Fucosylated Chondroitin Sulfate Oligomers in Gastro-Resistant Microcapsules Exhibits a Safe Antithrombotic Activity. <i>Thrombosis and Haemostasis</i> , 2021 , 121, 15-26	7	3
228	MAPK/HOG signaling pathway induced stress-responsive damage repair is a mechanism for <i>Pichia pastoris</i> to survive from hyperosmotic stress. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 412-422	3.5	0
227	Bioengineered production of glycosaminoglycans and their analogues. <i>Systems Microbiology and Biomanufacturing</i> , 2021 , 1, 123-130		3
226	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> , 2021 , 87,	4.8	3
225	Comparative study on the mechanisms of anti-lung cancer activities of three sulfated galactofucans. <i>Food and Function</i> , 2021 , 12, 10644-10657	6.1	1
224	Characterization of Glycosaminoglycan Disaccharide Composition in Astrocyte Primary Cultures and the Cortex of Neonatal Rats. <i>Neurochemical Research</i> , 2021 , 46, 595-610	4.6	1
223	Probing Amyloid β Interactions with Synthetic Heparan Sulfate Oligosaccharides. <i>ACS Chemical Biology</i> , 2021 , 16, 1894-1899	4.9	2
222	Additional Role of Nicotinic Acid Hydroxylase for the Transformation of 3-Succinoyl-Pyridine by sp. Strain JY-Q. <i>Applied and Environmental Microbiology</i> , 2021 , 87,	4.8	2

221	Preparation of Low Molecular Weight Heparin from a Remodeled Bovine Intestinal Heparin. <i>Journal of Medicinal Chemistry</i> , 2021 , 64, 2242-2253	8.3	1
220	The Application of Seaweed Polysaccharides and Their Derived Products with Potential for the Treatment of Alzheimer's Disease. <i>Marine Drugs</i> , 2021 , 19,	6	17
219	The degree of polymerization and sulfation patterns in heparan sulfate are critical determinants of cytomegalovirus entry into host cells. <i>PLoS Pathogens</i> , 2021 , 17, e1009803	7.6	2
218	Sustained release of Ganoderma lucidum antitumor drugs using a sandwich structured material prepared by electrospinning. <i>Journal of Drug Delivery Science and Technology</i> , 2021 , 64, 102627	4.5	2
217	Platelet factor 4 polyanion immune complexes: heparin induced thrombocytopenia and vaccine-induced immune thrombotic thrombocytopenia. <i>Thrombosis Journal</i> , 2021 , 19, 66	5.6	3
216	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	5.4	7
215	Structural Features of Heparin and Its Interactions With Cellular Prion Protein Measured by Surface Plasmon Resonance. <i>Frontiers in Molecular Biosciences</i> , 2020 , 7, 594497	5.6	3
214	Amphiphilic mPEG-Modified Oligo-Phenylalanine Nanoparticles Chemoenzymatically Synthesized via Papain. <i>ACS Omega</i> , 2020 , 5, 30336-30347	3.9	3
213	Structural characterization of a clinically described heparin-like substance in plasma causing bleeding. <i>Carbohydrate Polymers</i> , 2020 , 244, 116443	10.3	5
212	Interactions of fibroblast growth factors with sulfated galactofucan from <i>Saccharina japonica</i> . <i>International Journal of Biological Macromolecules</i> , 2020 , 160, 26-34	7.9	5
211	Characterization and application of a putative transcription factor (SUT2) in <i>Pichia pastoris</i> . <i>Molecular Genetics and Genomics</i> , 2020 , 295, 1295-1304	3.1	2
210	Lipids Analysis and Rapid Identification of Cod Products. <i>European Journal of Lipid Science and Technology</i> , 2020 , 122, 1900444	3	1
209	Biotechnology progress for removal of indoor gaseous formaldehyde. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 3715-3727	5.7	7
208	Design of anti-inflammatory heparan sulfate to protect against acetaminophen-induced acute liver failure. <i>Science Translational Medicine</i> , 2020 , 12,	17.5	20
207	Enzymatic Synthesis of Chondroitin Sulfate E to Attenuate Bacteria Lipopolysaccharide-Induced Organ Damage. <i>ACS Central Science</i> , 2020 , 6, 1199-1207	16.8	10
206	Structural analysis of a glucoglucuronan derived from laminarin and the mechanisms of its anti-lung cancer activity. <i>International Journal of Biological Macromolecules</i> , 2020 , 163, 776-787	7.9	2
205	Characterization of heparin and severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) spike glycoprotein binding interactions. <i>Antiviral Research</i> , 2020 , 181, 104873	10.8	148
204	Structural characteristics and anti-complement activities of polysaccharides from <i>Sargassum hemiphyllum</i> . <i>Glycoconjugate Journal</i> , 2020 , 37, 553-563	3	4

203	Molecular mechanisms of bioactive polysaccharides from <i>Ganoderma lucidum</i> (Lingzhi), a review. <i>International Journal of Biological Macromolecules</i> , 2020 , 150, 765-774	7.9	59
202	Lipase-catalyzed ring-opening copolymerization of ϵ -pentadecalactone and ϵ -valerolactone by reactive extrusion. <i>Green Chemistry</i> , 2020 , 22, 662-668	10	6
201	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> , 2020 , 149, 450-458	7.9	8
200	Non-anticoagulant Heparin as a Pre-exposure Prophylaxis Prevents Lyme Disease Infection. <i>ACS Infectious Diseases</i> , 2020 , 6, 503-514	5.5	4
199	Mass spectrometric evidence for the mechanism of free-radical depolymerization of various types of glycosaminoglycans. <i>Carbohydrate Polymers</i> , 2020 , 233, 115847	10.3	3
198	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> , 2020 , 235, 115904	10.3	11
197	Structural characterization and anti-lung cancer activity of a sulfated glucurono-xylo-rhamnan from <i>Enteromorpha prolifera</i> . <i>Carbohydrate Polymers</i> , 2020 , 237, 116143	10.3	6
196	Unique Cell Surface Mannan of Yeast Pathogen with Selective Binding to IgG. <i>ACS Infectious Diseases</i> , 2020 , 6, 1018-1031	5.5	14
195	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> , 2020 , 11, 2327-2344	3.3	4
194	Effective Inhibition of SARS-CoV-2 Entry by Heparin and Enoxaparin Derivatives 2020 ,		21
193	3-O-Sulfation of Heparan Sulfate Enhances Tau Interaction and Cellular Uptake. <i>Angewandte Chemie</i> , 2020 , 132, 1834-1843	3.6	0
192	3-O-Sulfation of Heparan Sulfate Enhances Tau Interaction and Cellular Uptake. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1818-1827	16.4	40
191	Evaluating Heparin Products for Heparin-Induced Thrombocytopenia Using Surface Plasmon Resonance. <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 975-980	3.9	5
190	Regulation of PTP1B activation through disruption of redox-complex formation. <i>Nature Chemical Biology</i> , 2020 , 16, 122-125	11.7	10
189	Urinary metabolomics analysis reveals the anti-diabetic effect of stachyose in high-fat diet/streptozotocin-induced type 2 diabetic rats. <i>Carbohydrate Polymers</i> , 2020 , 229, 115534	10.3	8
188	Interactions between Sclerostin and Glycosaminoglycans. <i>Glycoconjugate Journal</i> , 2020 , 37, 119-128	3	2
187	Designer DNA architecture offers precise and multivalent spatial pattern-recognition for viral sensing and inhibition. <i>Nature Chemistry</i> , 2020 , 12, 26-35	17.6	82
186	Extraction, structure and bioactivities of the polysaccharides from <i>Pleurotus eryngii</i> : A review. <i>International Journal of Biological Macromolecules</i> , 2020 , 150, 1342-1347	7.9	28

185	Functional role of glycosaminoglycans in decellularized lung extracellular matrix. <i>Acta Biomaterialia</i> , 2020 , 102, 231-246	10.8	24
184	A Novel Laminin-Binding Protein Mediates Microbial-Endothelial Cell Interactions and Facilitates Dissemination of Lyme Disease Pathogens. <i>Journal of Infectious Diseases</i> , 2020 , 221, 1438-1447	7	4
183	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> , 2020 , 141, 109651	3.8	2
182	Xylosyltransferase 2 deficiency and organ homeostasis. <i>Glycoconjugate Journal</i> , 2020 , 37, 755-765	3	3
181	FAM20B-catalyzed glycosaminoglycans control murine tooth number by restricting FGFR2b signaling. <i>BMC Biology</i> , 2020 , 18, 87	7.3	3
180	A Revised Structure for the Glycolipid Terminus of K5 Heparosan Capsular Polysaccharide. <i>Biomolecules</i> , 2020 , 10,	5.9	3
179	Characterization of Peptide Activators of Protein Tyrosine Phosphatase 1B. <i>Free Radical Biology and Medicine</i> , 2020 , 159, S26-S27	7.8	
178	Chemical O-sulfation of N-sulfoheparosan: a route to rare N-sulfo-3-O-sulfoglucosamine and 2-O-sulfoglucuronic acid. <i>Glycoconjugate Journal</i> , 2020 , 37, 589-597	3	
177	Prominent members of the human gut microbiota express endo-acting O-glycanases to initiate mucin breakdown. <i>Nature Communications</i> , 2020 , 11, 4017	17.4	34
176	Inhibition of glucuronomannan hexamer on the proliferation of lung cancer through binding with immunoglobulin G. <i>Carbohydrate Polymers</i> , 2020 , 248, 116785	10.3	2
175	Sulfated polysaccharides effectively inhibit SARS-CoV-2 in vitro. <i>Cell Discovery</i> , 2020 , 6, 50	22.3	144
174	Filter-entrapment enrichment pull-down assay for glycosaminoglycan structural characterization and protein interaction. <i>Carbohydrate Polymers</i> , 2020 , 245, 116623	10.3	3
173	Fabrication of homotypic neural ribbons as a multiplex platform optimized for spinal cord delivery. <i>Scientific Reports</i> , 2020 , 10, 12939	4.9	4
172	Fucosylated Chondroitin Sulfate 9-18 Oligomers Exhibit Molecular Size-Independent Antithrombotic Activity while Circulating in the Blood. <i>ACS Chemical Biology</i> , 2020 , 15, 2232-2246	4.9	4
171	Combined genomic and transcriptomic analysis of the dibutyl phthalate metabolic pathway in <i>Arthrobacter</i> sp. ZJUTW. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 3712-3726	4.9	8
170	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> , 2020 , 163, 1649-1658	7.9	30
169	Mapping the Structural and Dynamic Determinants of pH-Sensitive Heparin Binding to Granulocyte Macrophage Colony Stimulating Factor. <i>Biochemistry</i> , 2020 , 59, 3541-3553	3.2	3
168	Structural analysis of urinary glycosaminoglycans from healthy human subjects. <i>Glycobiology</i> , 2020 , 30, 143-151	5.8	11

167	Loss of endothelial sulfatase-1 after experimental sepsis attenuates subsequent pulmonary inflammatory responses. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2019 , 317, L667-L677	5.8	4
166	Circulating heparan sulfate fragments mediate septic cognitive dysfunction. <i>Journal of Clinical Investigation</i> , 2019 , 129, 1779-1784	15.9	52
165	Comparison of the Interactions of Different Growth Factors and Glycosaminoglycans. <i>Molecules</i> , 2019 , 24,	4.8	29
164	Online Capillary Zone Electrophoresis Negative Electron Transfer Dissociation Tandem Mass Spectrometry of Glycosaminoglycan Mixtures. <i>International Journal of Mass Spectrometry</i> , 2019 , 445, 116209-116209	1.9	12
163	High-throughput method for in process monitoring of 3-O-sulfotransferase catalyzed sulfonation in bioengineered heparin synthesis. <i>Analytical Biochemistry</i> , 2019 , 586, 113419	3.1	3
162	Preparation of salidoside with n-butyl D-glucoside as the glycone donor via a two-step enzymatic synthesis catalyzed by immobilized D-glucosidase from bitter almonds. <i>Biocatalysis and Biotransformation</i> , 2019 , 37, 246-260	2.5	3
161	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> , 2019 , 58, 1155-1166	3.2	17
160	Specificity and action pattern of heparanase Bp, a D-glucuronidase from Burkholderia pseudomallei. <i>Glycobiology</i> , 2019 , 29, 572-581	5.8	8
159	Comparison of Low-Molecular-Weight Heparins Prepared From Ovine Heparins With Enoxaparin. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2019 , 25, 1076029619840701	3.3	3
158	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> , 2019 , 14, 1363-1379	4.9	21
157	Heparin Contamination and Issues Related to Raw Materials and Controls. <i>AAPS Advances in the Pharmaceutical Sciences Series</i> , 2019 , 191-206	0.5	3
156	Endothelial Glycocalyx Shedding Predicts Donor Organ Acceptability and Is Associated With Primary Graft Dysfunction in Lung Transplant Recipients. <i>Transplantation</i> , 2019 , 103, 1277-1285	1.8	11
155	Heavy Heparin: A Stable Isotope-Enriched, Chemoenzymatically-Synthesized, Poly-Component Drug. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5962-5966	16.4	27
154	Characterization and comparative analysis of toxin-antitoxin systems in <i>Acetobacter pasteurianus</i> . <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019 , 46, 869-882	4.2	9
153	Glycan Markers of Human Stem Cells Assigned with Beam Search Arrays. <i>Molecular and Cellular Proteomics</i> , 2019 , 18, 1981-2002	7.6	6
152	Intravenous fluid resuscitation is associated with septic endothelial glycocalyx degradation. <i>Critical Care</i> , 2019 , 23, 259	10.8	67
151	Bottom-up and top-down profiling of pentosan polysulfate. <i>Analyst, The</i> , 2019 , 144, 4781-4786	5	13
150	Highly purified fucosylated chondroitin sulfate oligomers with selective intrinsic factor Xase complex inhibition. <i>Carbohydrate Polymers</i> , 2019 , 222, 115025	10.3	10

149	Expedient Synthesis of Core Disaccharide Building Blocks from Natural Polysaccharides for Heparan Sulfate Oligosaccharide Assembly. <i>Angewandte Chemie</i> , 2019 , 131, 18750-18756	3.6	4
148	Expedient Synthesis of Core Disaccharide Building Blocks from Natural Polysaccharides for Heparan Sulfate Oligosaccharide Assembly. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 18577-18583	16.4	21
147	Glycosaminoglycans in human cerebrospinal fluid determined by LC-MS/MS MRM. <i>Analytical Biochemistry</i> , 2019 , 567, 82-84	3.1	12
146	Chemometric analysis of porcine, bovine and ovine heparins. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019 , 164, 345-352	3.5	10
145	Non-Anticoagulant Low Molecular Weight Heparins for Pharmaceutical Applications. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 1067-1073	8.3	5
144	Metabolic engineering of cyanobacteria for photoautotrophic production of heparosan, a pharmaceutical precursor of heparin. <i>Algal Research</i> , 2019 , 37, 57-63	5	29
143	Amphiphilic bromelain-synthesized oligo-phenylalanine grafted with methoxypolyethylene glycol possessing stabilizing thermo-responsive emulsion properties. <i>Journal of Colloid and Interface Science</i> , 2019 , 538, 1-14	9.3	5
142	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> , 2019 , 45, 124-129	3.6	9
141	-stimulated crosslinking of catechol-conjugated hydroxyethyl chitosan as a tissue adhesive. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2019 , 107, 582-593	3.5	11
140	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> , 2018 , 365,	2.9	9
139	Heparin/heparan sulfate analysis by covalently modified reverse polarity capillary zone electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2018 , 1545, 75-83	4.5	22
138	Structure and conformation of β -glucan extracted from <i>Agaricus blazei</i> Murill by high-speed shearing homogenization. <i>International Journal of Biological Macromolecules</i> , 2018 , 113, 558-564	7.9	20
137	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> , 2018 , 115, 221-226	7.9	31
136	Antithrombin III-Binding Site Analysis of Low-Molecular-Weight Heparin Fractions. <i>Journal of Pharmaceutical Sciences</i> , 2018 , 107, 1290-1295	3.9	13
135	Glycosaminoglycans from bovine eye vitreous humour and interaction with collagen type II. <i>Glycoconjugate Journal</i> , 2018 , 35, 119-128	3	16
134	Structural and Functional Components of the Skate Sensory Organ Ampullae of <i>Lorenzini</i> . <i>ACS Chemical Biology</i> , 2018 , 13, 1677-1685	4.9	10
133	Epithelial Heparan Sulfate Contributes to Alveolar Barrier Function and Is Shed during Lung Injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2018 , 59, 363-374	5.7	24
132	Akebia saponin D reverses corticosterone hypersecretion in an Alzheimer's disease rat model. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 107, 219-225	7.5	10

131	Structural Characterization and Interaction with RCA of a Highly Sulfated Keratan Sulfate from Blue Shark (<i>Prionace glauca</i>) Cartilage. <i>Marine Drugs</i> , 2018 , 16,	6	3
130	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> , 2018 , 14, e1007106	7.6	31
129	A flexible carbon/sulfur-cellulose core-shell structure for advanced lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2018 , 15, 388-395	19.4	23
128	Increased soluble heterologous expression of a rat brain 3-O-sulfotransferase 1 - A key enzyme for heparin biosynthesis. <i>Protein Expression and Purification</i> , 2018 , 151, 23-29	2	4
127	Cocaine Exposure Modulates Perineuronal Nets and Synaptic Excitability of Fast-Spiking Interneurons in the Medial Prefrontal Cortex. <i>ENeuro</i> , 2018 , 5,	3.9	33
126	Recent Progress of Marine Polypeptides as Anticancer Agents. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , 2018 , 13, 445-454	2.6	11
125	A novel structural fucosylated chondroitin sulfate from <i>Holothuria Mexicana</i> and its effects on growth factors binding and anticoagulation. <i>Carbohydrate Polymers</i> , 2018 , 181, 1160-1168	10.3	51
124	Glycosaminoglycans from fish swim bladder: isolation, structural characterization and bioactive potential. <i>Glycoconjugate Journal</i> , 2018 , 35, 87-94	3	10
123	Dimerization interface of osteoprotegerin revealed by hydrogen-deuterium exchange mass spectrometry. <i>Journal of Biological Chemistry</i> , 2018 , 293, 17523-17535	5.4	3
122	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> , 2018 , 10,	4.5	4
121	Impact of Temperature on Heparin and Protein Interactions. <i>Biochemistry & Physiology</i> , 2018 , 7,		9
120	A mutant-cell library for systematic analysis of heparan sulfate structure-function relationships. <i>Nature Methods</i> , 2018 , 15, 889-899	21.6	42
119	Copper regulates the interactions of antimicrobial piscidin peptides from fish mast cells with formyl peptide receptors and heparin. <i>Journal of Biological Chemistry</i> , 2018 , 293, 15381-15396	5.4	22
118	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> , 2018 , 293, 11076-11087	5.4	13
117	Analysis of heparin oligosaccharides by capillary electrophoresis-negative-ion electrospray ionization mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 411-420	4.4	34
116	Isolation of a lectin binding rhamnogalacturonan-I containing pectic polysaccharide from pumpkin. <i>Carbohydrate Polymers</i> , 2017 , 163, 330-336	10.3	64
115	Parent heparin and daughter LMW heparin correlation analysis using LC-MS and NMR. <i>Analytica Chimica Acta</i> , 2017 , 961, 91-99	6.6	13
114	Interaction of Zika Virus Envelope Protein with Glycosaminoglycans. <i>Biochemistry</i> , 2017 , 56, 1151-1162	3.2	81

113	Construction and characterisation of a heparan sulphate heptasaccharide microarray. <i>Chemical Communications</i> , 2017 , 53, 1743-1746	5.8	29
112	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> , 2017 , 52, 456-466	2.5	10
111	A comparative secretome analysis of industrial <i>Aspergillus oryzae</i> and its spontaneous mutant ZJGS-LZ-21. <i>International Journal of Food Microbiology</i> , 2017 , 248, 1-9	5.8	12
110	Fibroblast Growth Factor Signaling Mediates Pulmonary Endothelial Glycocalyx Reconstitution. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017 , 56, 727-737	5.7	50
109	The 2.8Å Electron Microscopy Structure of Adeno-Associated Virus-DJ Bound by a Heparinoid Pentasaccharide. <i>Molecular Therapy - Methods and Clinical Development</i> , 2017 , 5, 1-12	6.4	19
108	Glycan Determinants of Heparin-Tau Interaction. <i>Biophysical Journal</i> , 2017 , 112, 921-932	2.9	47
107	Novel method for measurement of heparin anticoagulant activity using SPR. <i>Analytical Biochemistry</i> , 2017 , 526, 39-42	3.1	15
106	Structural Analysis of Heparin-Derived 3-O-Sulfated Tetrasaccharides: Antithrombin Binding Site Variants. <i>Journal of Pharmaceutical Sciences</i> , 2017 , 106, 973-981	3.9	33
105	Top-down and bottom-up analysis of commercial enoxaparins. <i>Journal of Chromatography A</i> , 2017 , 1480, 32-40	4.5	14
104	Expression and secretion of glycosylated heparin biosynthetic enzymes using <i>Komagataella pastoris</i> . <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 2843-2851	5.7	11
103	Enzymatic Generation of Highly Anticoagulant Bovine Intestinal Heparin. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 8673-8679	8.3	16
102	Biodegradable and Bioactive PCL-PGS Core-Shell Fibers for Tissue Engineering. <i>ACS Omega</i> , 2017 , 2, 6321-6328	3.9	24
101	Structural and activity variability of fractions with different charge density and chain length from pharmaceutical heparins. <i>Glycoconjugate Journal</i> , 2017 , 34, 545-552	3	2
100	<i>Borrelia burgdorferi</i> glycosaminoglycan-binding proteins: a potential target for new therapeutics against Lyme disease. <i>Microbiology (United Kingdom)</i> , 2017 , 163, 1759-1766	2.9	18
99	Glycosaminoglycans and glycolipids as potential biomarkers in lung cancer. <i>Glycoconjugate Journal</i> , 2017 , 34, 661-669	3	19
98	Construction and functional characterization of truncated versions of recombinant keratanase II from <i>Bacillus circulans</i> . <i>Glycoconjugate Journal</i> , 2017 , 34, 643-649	3	10
97	Comparative proteomics of matrix fractions between pimped and normal chicken eggshells. <i>Journal of Proteomics</i> , 2017 , 167, 1-11	3.9	3
96	Improved octyl glucoside synthesis using immobilized β -glucosidase on PA-M with reduced glucose surplus inhibition. <i>Biocatalysis and Biotransformation</i> , 2017 , 35, 349-362	2.5	10

95	Sequencing the Dermatan Sulfate Chain of Decorin. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16986-16995	16.4	32
94	Glycan Activation of a Sheddase: Electrostatic Recognition between Heparin and proMMP-7. <i>Structure</i> , 2017 , 25, 1100-1110.e5	5.2	7
93	Surprising absence of heparin in the intestinal mucosa of baby pigs. <i>Glycobiology</i> , 2017 , 27, 57-63	5.8	11
92	Glycosaminoglycans from chicken muscular stomach or gizzard. <i>Glycoconjugate Journal</i> , 2017 , 34, 119-126		1
91	Nanostructured glycan architecture is important in the inhibition of influenza A virus infection. <i>Nature Nanotechnology</i> , 2017 , 12, 48-54	28.7	98
90	Gas-Phase Analysis of the Complex of Fibroblast GrowthFactor 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> , 2017 , 28, 96-109	3.5	17
89	Comparative Genomics Reveals Specific Genetic Architectures in Nicotine Metabolism of sp. JY-Q. <i>Frontiers in Microbiology</i> , 2017 , 8, 2085	5.7	19
88	HeparinS solution structure determined by small-angle neutron scattering. <i>Biopolymers</i> , 2016 , 105, 905-13		8
87	Structure and bioactivity of a polysaccharide containing uronic acid from Polyporus umbellatus sclerotia. <i>Carbohydrate Polymers</i> , 2016 , 152, 222-230	10.3	54
86	Kinetic and Structural Studies of Interactions between Glycosaminoglycans and Langerin. <i>Biochemistry</i> , 2016 , 55, 4552-9	3.2	22
85	Recombinant Escherichia coli K5 strain with the deletion of waaR gene decreases the molecular weight of the heparosan capsular polysaccharide. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 7877-85	5.7	6
84	Abnormally High Content of Free Glucosamine Residues Identified in a Preparation of Commercially Available Porcine Intestinal Heparan Sulfate. <i>Analytical Chemistry</i> , 2016 , 88, 6648-52	7.8	7
83	Examination of Glycosaminoglycan Binding Sites on the XCL1 Dimer. <i>Biochemistry</i> , 2016 , 55, 1214-25	3.2	14
82	Surface modification of a polyethylene film for anticoagulant and anti-microbial catheter. <i>Reactive and Functional Polymers</i> , 2016 , 100, 142-150	4.6	20
81	Keratan sulfate glycosaminoglycan from chicken egg white. <i>Glycobiology</i> , 2016 , 26, 693-700	5.8	12
80	Changes in composition and sulfation patterns of glycoaminoglycans in renal cell carcinoma. <i>Glycoconjugate Journal</i> , 2016 , 33, 103-12	3	22
79	Capillary Electrophoresis-Mass Spectrometry for the Analysis of Heparin Oligosaccharides and Low Molecular Weight Heparin. <i>Analytical Chemistry</i> , 2016 , 88, 1937-43	7.8	39
78	GlycCompSoft: Software for Automated Comparison of Low Molecular Weight Heparins Using Top-Down LC/MS Data. <i>PLoS ONE</i> , 2016 , 11, e0167727	3.7	10

77	Comprehensive Identification and Quantitation of Basic Building Blocks for Low-Molecular Weight Heparin. <i>Analytical Chemistry</i> , 2016 , 88, 7738-44	7.8	20
76	Urinary Glycosaminoglycans Predict Outcomes in Septic Shock and Acute Respiratory Distress Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016 , 194, 439-49	10.2	93
75	Analysis of Heparins Derived From Bovine Tissues and Comparison to Porcine Intestinal Heparins. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2016 , 22, 520-7	3.3	31
74	Structural elucidation of polysaccharide containing 3-O-methyl galactose from fruiting bodies of <i>Pleurotus citrinopileatus</i> . <i>Carbohydrate Research</i> , 2016 , 434, 72-76	2.9	13
73	Selective, switchable fluorescent probe for heparin based on aggregation-induced emission. <i>Analytical Biochemistry</i> , 2016 , 514, 48-54	3.1	11
72	Production of a low molecular weight heparin using recombinant glycuronidase [corrected]. <i>Carbohydrate Polymers</i> , 2015 , 134, 151-7	10.3	3
71	Analysis of Total Human Urinary Glycosaminoglycan Disaccharides by Liquid Chromatography-Tandem Mass Spectrometry. <i>Analytical Chemistry</i> , 2015 , 87, 6220-7	7.8	58
70	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> , 2015 , 175, 2986-95	3.2	12
69	The Responses of Hyperglycemic Dividing Mesangial Cells to Heparin Are Mediated by the Non-reducing Terminal Trisaccharide. <i>Journal of Biological Chemistry</i> , 2015 , 290, 29045-50	5.4	5
68	High structural resolution hydroxyl radical protein footprinting reveals an extended Robo1-heparin binding interface. <i>Journal of Biological Chemistry</i> , 2015 , 290, 10729-40	5.4	46
67	Rapid and accurate determination of the lignin content of lignocellulosic biomass by solid-state NMR. <i>Fuel</i> , 2015 , 141, 39-45	7.1	67
66	A purification process for heparin and precursor polysaccharides using the pH responsive behavior of chitosan. <i>Biotechnology Progress</i> , 2015 , 31, 1348-59	2.8	6
65	Optimization of bioprocess conditions improves production of a CHO cell-derived, bioengineered heparin. <i>Biotechnology Journal</i> , 2015 , 10, 1067-81	5.6	21
64	Detection of cerebrospinal fluid leakage by specific measurement of transferrin glycoforms. <i>Electrophoresis</i> , 2015 , 36, 2425-32	3.6	8
63	SPR Biosensor Probing the Interactions between TIMP-3 and Heparin/GAGs. <i>Biosensors</i> , 2015 , 5, 500-12	5.9	17
62	Interactions between nattokinase and heparin/GAGs. <i>Glycoconjugate Journal</i> , 2015 , 32, 695-702	3	4
61	Stable isotopic analysis of porcine, bovine, and ovine heparins. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 457-63	3.9	13
60	Circulating Endothelial Glycocalyx Fragments Impact Endothelial and Epithelial Repair after Septic Lung Injury. <i>FASEB Journal</i> , 2015 , 29, 863.9	0.9	

59	Characterization of human placental glycosaminoglycans and regional binding to VAR2CSA in malaria infected erythrocytes. <i>Glycoconjugate Journal</i> , 2014 , 31, 109-16	3	11
58	Structure and activity of a new low-molecular-weight heparin produced by enzymatic ultrafiltration. <i>Journal of Pharmaceutical Sciences</i> , 2014 , 103, 1375-83	3.9	30
57	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> , 2014 , 111, 11299-304	11.5	357
56	Heparinoids activate a protease, secreted by mucosa and tumors, via tethering supplemented by allosteric. <i>ACS Chemical Biology</i> , 2014 , 9, 957-66	4.9	10
55	Method to detect contaminants in heparin using radical depolymerization and liquid chromatography-mass spectrometry. <i>Analytical Chemistry</i> , 2014 , 86, 326-30	7.8	31
54	Probing the impact of GFP tagging on Robo1-heparin interaction. <i>Glycoconjugate Journal</i> , 2014 , 31, 299-307	3	7
53	Quantitation of heparosan with heparin lyase III and spectrophotometry. <i>Analytical Biochemistry</i> , 2014 , 447, 46-8	3.1	8
52	Heparin stability by determining unsubstituted amino groups using hydrophilic interaction chromatography mass spectrometry. <i>Analytical Biochemistry</i> , 2014 , 461, 46-8	3.1	15
51	Divergent effect of glycosaminoglycans on the in vitro aggregation of serum amyloid A. <i>Biochimie</i> , 2014 , 104, 70-80	4.6	22
50	Compositional analysis and structural elucidation of glycosaminoglycans in chicken eggs. <i>Glycoconjugate Journal</i> , 2014 , 31, 593-602	3	18
49	Analysis of 3-O-sulfo group-containing heparin tetrasaccharides in heparin by liquid chromatography-mass spectrometry. <i>Analytical Biochemistry</i> , 2014 , 455, 3-9	3.1	29
48	Isolation and structural characterization of glycosaminoglycans from heads of red salmon () 2014 , 1, 002		
47	Characterization of interactions between heparin/glycosaminoglycan and adeno-associated virus. <i>Biochemistry</i> , 2013 , 52, 6275-85	3.2	24
46	Immobilized enzymes to convert N-sulfo, N-acetyl heparosan to a critical intermediate in the production of bioengineered heparin. <i>Journal of Biotechnology</i> , 2013 , 167, 241-7	3.7	23
45	Structural characterization of pharmaceutical heparins prepared from different animal tissues. <i>Journal of Pharmaceutical Sciences</i> , 2013 , 102, 1447-57	3.9	80
44	Structural studies of the interaction of Crataeva tapia bark protein with heparin and other glycosaminoglycans. <i>Biochemistry</i> , 2013 , 52, 2148-56	3.2	18
43	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> , 2013 , 288, 737-46	5.4	65
42	Characterization of the interaction between Robo1 and heparin and other glycosaminoglycans. <i>Biochimie</i> , 2013 , 95, 2345-53	4.6	25

41	Microscale separation of heparosan, heparan sulfate, and heparin. <i>Analytical Biochemistry</i> , 2013 , 434, 215-7	3.1	9
40	Microanalysis of stomach cancer glycosaminoglycans. <i>Glycoconjugate Journal</i> , 2013 , 30, 701-7	3	15
39	Isolation of bovine corneal keratan sulfate and its growth factor and morphogen binding. <i>FEBS Journal</i> , 2013 , 280, 2285-93	5.7	46
38	Metabolic engineering of Chinese hamster ovary cells: towards a bioengineered heparin. <i>Metabolic Engineering</i> , 2012 , 14, 81-90	9.7	57
37	Engineering of routes to heparin and related polysaccharides. <i>Applied Microbiology and Biotechnology</i> , 2012 , 93, 1-16	5.7	100
36	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> , 2012 , 16, 79-89	3.8	41
35	Signal Amplification by Glyco-qPCR for Ultrasensitive Detection of Carbohydrates: Applications in Glycobiology. <i>Angewandte Chemie</i> , 2012 , 124, 11970-11974	3.6	2
34	Cell-Based Microscale Isolation of Glycoaminoglycans for Glycomics Study. <i>Journal of Carbohydrate Chemistry</i> , 2012 , 31, 420-435	1.7	11
33	Top-down approach for the direct characterization of low molecular weight heparins using LC-FT-MS. <i>Analytical Chemistry</i> , 2012 , 84, 8822-9	7.8	93
32	Biophysical characterization of glycosaminoglycan-IL-7 interactions using SPR. <i>Biochimie</i> , 2012 , 94, 242-94.6	18	
31	Analysis of the interaction between heparin and follistatin and heparin and follistatin-ligand complexes using surface plasmon resonance. <i>Biochemistry</i> , 2012 , 51, 6797-803	3.2	11
30	Binding affinities of vascular endothelial growth factor (VEGF) for heparin-derived oligosaccharides. <i>Bioscience Reports</i> , 2012 , 32, 71-81	4.1	87
29	Response surface optimization of the heparosan N-deacetylation in producing bioengineered heparin. <i>Journal of Biotechnology</i> , 2011 , 156, 188-96	3.7	26
28	Structural characterization of heparins from different commercial sources. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 2793-803	4.4	53
27	Impact of autoclave sterilization on the activity and structure of formulated heparin. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 3396-3404	3.9	23
26	Mass balance analysis of contaminated heparin product. <i>Analytical Biochemistry</i> , 2011 , 408, 147-56	3.1	8
25	Ultra-performance ion-pairing liquid chromatography with on-line electrospray ion trap mass spectrometry for heparin disaccharide analysis. <i>Analytical Biochemistry</i> , 2011 , 415, 59-66	3.1	61
24	Glycosaminoglycans of the porcine central nervous system. <i>Biochemistry</i> , 2010 , 49, 9839-47	3.2	18

23	E. coli K5 fermentation and the preparation of heparosan, a bioengineered heparin precursor. <i>Biotechnology and Bioengineering</i> , 2010 , 107, 964-73	4.9	93
22	Control of promatrilysin (MMP7) activation and substrate-specific activity by sulfated glycosaminoglycans. <i>Journal of Biological Chemistry</i> , 2009 , 284, 27924-27932	5.4	52
21	Oversulfated chondroitin sulfate interaction with heparin-binding proteins: new insights into adverse reactions from contaminated heparins. <i>Biochemical Pharmacology</i> , 2009 , 78, 292-300	6	67
20	Analysis of pharmaceutical heparins and potential contaminants using (1)H-NMR and PAGE. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 4017-26	3.9	63
19	Structural characterization of glycosaminoglycans from zebrafish in different ages. <i>Glycoconjugate Journal</i> , 2009 , 26, 211-8	3	26
18	Compositional analysis of heparin/heparan sulfate interacting with fibroblast growth factor.fibroblast growth factor receptor complexes. <i>Biochemistry</i> , 2009 , 48, 8379-86	3.2	61
17	Kinetic and structural studies on interactions between heparin or heparan sulfate and proteins of the hedgehog signaling pathway. <i>Biochemistry</i> , 2007 , 46, 3933-41	3.2	63
16	Pharmacokinetics and pharmacodynamics of oral heparin solid dosage form in healthy human subjects. <i>Journal of Clinical Pharmacology</i> , 2007 , 47, 1508-20	2.9	38
15	Pharmacokinetics and Pharmacodynamics of Oral Heparin Solid Dosage Form in Healthy Human Subjects.. <i>Blood</i> , 2007 , 110, 4009-4009	2.2	1
14	Structural basis by which alternative splicing modulates the organizer activity of FGF8 in the brain. <i>Genes and Development</i> , 2006 , 20, 185-98	12.6	149
13	Crystallographic analysis of calcium-dependent heparin binding to annexin A2. <i>Journal of Biological Chemistry</i> , 2006 , 281, 31689-95	5.4	68
12	Microscale isolation and analysis of heparin from plasma using an anion-exchange spin column. <i>Analytical Biochemistry</i> , 2006 , 353, 284-6	3.1	34
11	Isolation and characterization of heparan sulfate from various murine tissues. <i>Glycoconjugate Journal</i> , 2006 , 23, 555-63	3	63
10	Identification and characterization of a glycosaminoglycan recognition element of the C chemokine lymphotactin. <i>Journal of Biological Chemistry</i> , 2004 , 279, 12598-604	5.4	62
9	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> , 2004 , 101, 935-40	11.5	152
8	Structural determinants of heparan sulfate interactions with Slit proteins. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 317, 352-7	3.4	30
7	Kinetic model for FGF, FGFR, and proteoglycan signal transduction complex assembly. <i>Biochemistry</i> , 2004 , 43, 4724-30	3.2	134
6	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> , 2004 , 10, 249-57	3.3	6

5	Cellular binding of hepatitis C virus envelope glycoprotein E2 requires cell surface heparan sulfate. <i>Journal of Biological Chemistry</i> , 2003 , 278, 41003-12	5-4	352
4	A highly stable covalent conjugated heparin biochip for heparin-protein interaction studies. <i>Analytical Biochemistry</i> , 2002 , 304, 271-3	3-1	48
3	Separation of acid glycoprotein glycoforms using affinity-based reversed micellar extraction and separation. <i>Biotechnology and Bioengineering</i> , 2000 , 70, 484-490	4-9	9
2	Glycosaminoglycan binding motif at S1/S2 proteolytic cleavage site on spike glycoprotein may facilitate novel coronavirus (SARS-CoV-2) host cell entry		26
1	Designer DNA architecture offers precise and multivalent spatial pattern-recognition for viral sensing and inhibition		1