Guoyun Li

List of Publications by Citations

62	1,996	25	43
papers	citations	h-index	g-index

67	2,453	6.4	4.87
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
62	Dietary fucoidan modulates the gut microbiota in mice by increasing the abundance of Lactobacillus and Ruminococcaceae. *Food and Function*, **2016**, 7, 3224-32	6.1	180
61	Dietary fucoidan improves metabolic syndrome in association with increased Akkermansia population in the gut microbiota of high-fat diet-fed mice. *Journal of Functional Foods*, **2017**, 28, 138-146	5.1	141
60	Spongy bilayer dressing composed of chitosan-Ag nanoparticles and chitosan-Bletilla striata polysaccharide for wound healing applications. *Carbohydrate Polymers*, **2017**, 157, 1538-1547	10.3	113
59	Gut microbiota fermentation of marine polysaccharides and its effects on intestinal ecology: An overview. *Carbohydrate Polymers*, **2018**, 179, 173-185	10.3	112
58	Sequence determination and anticoagulant and antithrombotic activities of a novel sulfated fucan isolated from the sea cucumber Isostichopus badionotus. *Biochimica Et Biophysica Acta - General Subjects*, **2012**, 1820, 989-1000	4	102
57	Production of chondroitin in metabolically engineered E. coli. *Metabolic Engineering*, **2015**, 27, 92-100	9.7	93
56	Carrageenan-induced colitis is associated with decreased population of anti-inflammatory bacterium, Akkermansia muciniphila, in the gut microbiota of C57BL/6J mice. *Toxicology Letters*, **2017**, 279, 87-95	4.4	93
55	Sulfation pattern of the fucose branch is important for the anticoagulant and antithrombotic activities of fucosylated chondroitin sulfates. *Biochimica Et Biophysica Acta - General Subjects*, **2013**, 1830, 3054-66	4	91
54	Bottom-up low molecular weight heparin analysis using liquid chromatography-Fourier transform mass spectrometry for extensive characterization. *Analytical Chemistry*, **2014**, 86, 6626-32	7.8	63
53	Marine polysaccharides attenuate metabolic syndrome by fermentation products and altering gut microbiota: An overview. *Carbohydrate Polymers*, **2018**, 195, 601-612	10.3	59
52	A novel structural fucosylated chondroitin sulfate from Holothuria Mexicana and its effects on growth factors binding and anticoagulation. *Carbohydrate Polymers*, **2018**, 181, 1160-1168	10.3	51
51	A novel glycosaminoglycan-like polysaccharide from abalone Haliotis discus hannai Ino: purification, structure identification and anticoagulant activity. *International Journal of Biological Macromolecules*, **2011**, 49, 1160-6	7.9	50
50	Preparation of water-soluble melanin from squid ink using ultrasound-assisted degradation and its anti-oxidant activity. *Journal of Food Science and Technology*, **2014**, 51, 3680-90	3.3	48
49	Combinatorial one-pot chemoenzymatic synthesis of heparin. *Carbohydrate Polymers*, **2015**, 122, 399-407	10.3	48
48	Structural modulation of gut microbiota by chondroitin sulfate and its oligosaccharide. *International Journal of Biological Macromolecules*, **2016**, 89, 489-98	7.9	46
47	Glycosaminoglycanomics of cultured cells using a rapid and sensitive LC-MS/MS approach. *ACS Chemical Biology*, **2015**, 10, 1303-10	4.9	44
46	Antithrombotic activities of fucosylated chondroitin sulfates and their depolymerized fragments from two sea cucumbers. *Carbohydrate Polymers*, **2016**, 152, 343-350	10.3	44

45	A mutant-cell library for systematic analysis of heparan sulfate structure-function relationships. *Nature Methods*, **2018**, 15, 889-899	21.6	42
44	Degradation of chondroitin sulfate by the gut microbiota of Chinese individuals. *International Journal of Biological Macromolecules*, **2016**, 86, 112-8	7.9	40
43	In Vivo Anti-Cancer Mechanism of Low-Molecular-Weight Fucosylated Chondroitin Sulfate (LFCS) from Sea Cucumber Cucumaria frondosa. *Molecules*, **2016**, 21,	4.8	37
42	Changes in glycosaminoglycan structure on differentiation of human embryonic stem cells towards mesoderm and endoderm lineages. *Biochimica Et Biophysica Acta - General Subjects*, **2014**, 1840, 1993-2003	4	34
41	Method to detect contaminants in heparin using radical depolymerization and liquid chromatography-mass spectrometry. *Analytical Chemistry*, **2014**, 86, 326-30	7.8	31
40	Dietary Polysaccharide from Modulates Gut Microbiota and Promotes the Growth of , spp. and spp. *Marine Drugs*, **2018**, 16,	6	30
39	Structure and activity of a new low-molecular-weight heparin produced by enzymatic ultrafiltration. *Journal of Pharmaceutical Sciences*, **2014**, 103, 1375-83	3.9	30
38	Analysis of 3-O-sulfo group-containing heparin tetrasaccharides in heparin by liquid chromatography-mass spectrometry. *Analytical Biochemistry*, **2014**, 455, 3-9	3.1	29
37	Microwave-assisted synthesis of glycopolymers by ring-opening metathesis polymerization (ROMP) in an emulsion system. *Polymer Chemistry*, **2017**, 8, 6709-6719	4.9	24
36	Dietary Keratan Sulfate from Shark Cartilage Modulates Gut Microbiota and Increases the Abundance of Lactobacillus spp. *Marine Drugs*, **2016**, 14,	6	23
35	Optimization of bioprocess conditions improves production of a CHO cell-derived, bioengineered heparin. *Biotechnology Journal*, **2015**, 10, 1067-81	5.6	21
34	Glycosaminoglycans and glycolipids as potential biomarkers in lung cancer. *Glycoconjugate Journal*, **2017**, 34, 661-669	3	19
33	Extraction, isolation and structural characterization of a novel polysaccharide from Cyclocarya paliurus. *International Journal of Biological Macromolecules*, **2019**, 132, 864-870	7.9	18
32	Structure and immunomodulatory activity of a sulfated agarose with pyruvate and xylose substitutes from Polysiphonia senticulosa Harvey. *Carbohydrate Polymers*, **2017**, 176, 29-37	10.3	17
31	Structural characterization and anti-thrombotic properties of fucoidan from Nemacystus decipiens. *International Journal of Biological Macromolecules*, **2018**, 120, 1817-1822	7.9	17
30	Comprehensive N-Glycome Profiling of Cells and Tissues for Breast Cancer Diagnosis. *Journal of Proteome Research*, **2019**, 18, 2559-2570	5.6	16
29	Gangliosides profiling in serum of breast cancer patient: GM3 as a potential diagnostic biomarker. *Glycoconjugate Journal*, **2019**, 36, 419-428	3	16
28	Heparin stability by determining unsubstituted amino groups using hydrophilic interaction chromatography mass spectrometry. *Analytical Biochemistry*, **2014**, 461, 46-8	3.1	15

27	Fucoidan from sea cucumber Holothuria polii: Structural elucidation and stimulation of hematopoietic activity. *International Journal of Biological Macromolecules*, **2020**, 154, 1123-1131	7.9	15
26	Two different fucosylated chondroitin sulfates: Structural elucidation, stimulating hematopoiesis and immune-enhancing effects. *Carbohydrate Polymers*, **2020**, 230, 115698	10.3	13
25	Anti-Metabolic Syndrome Effects of Fucoidan from via Reactive Oxygen Species-Mediated Regulation of JNK, Akt, and AMPK Signaling. *Molecules*, **2019**, 24,	4.8	12
24	Low anticoagulant heparin oligosaccharides as inhibitors of BACE-1, the Alzheimer's β-secretase. *Carbohydrate Polymers*, **2016**, 151, 51-59	10.3	11
23	Conformational flexibility of PL12 family heparinases: structure and substrate specificity of heparinase III from Bacteroides thetaiotaomicron (BT4657). *Glycobiology*, **2017**, 27, 176-187	5.8	10
22	Factors Released from Endothelial Cells Exposed to Flow Impact Adhesion, Proliferation, and Fate Choice in the Adult Neural Stem Cell Lineage. *Stem Cells and Development*, **2017**, 26, 1199-1213	4.4	9
21	Sulfated glycosaminoglycans in decellularized placenta matrix as critical regulators for cutaneous wound healing. *Acta Biomaterialia*, **2021**, 122, 199-210	10.8	9
20	Anti-diabetic activities of agaropectin-derived oligosaccharides from Gloiopeltis furcata via regulation of mitochondrial function. *Carbohydrate Polymers*, **2020**, 229, 115482	10.3	8
19	Chemoenzymatic Synthesis of Heparan Sulfate Mimetic Glycopolymers and Their Interactions with the Receptor for Advanced Glycation End-Product. *ACS Macro Letters*, **2019**, 8, 1570-1574	6.6	8
18	Profiling pneumococcal type 3-derived oligosaccharides by high resolution liquid chromatography-tandem mass spectrometry. *Journal of Chromatography A*, **2015**, 1397, 43-51	4.5	7
17	Glycosaminoglycanomic profiling of human milk in different stages of lactation by liquid chromatography-tandem mass spectrometry. *Food Chemistry*, **2018**, 258, 231-236	8.5	7
16	Recent progress and advanced technology in carbohydrate-based drug development. *Current Opinion in Biotechnology*, **2021**, 69, 191-198	11.4	7
15	A purification process for heparin and precursor polysaccharides using the pH responsive behavior of chitosan. *Biotechnology Progress*, **2015**, 31, 1348-59	2.8	6
14	N-sulfotestosteronan, a novel substrate for heparan sulfate 6-O-sulfotransferases and its analysis by oxidative degradation. *Biopolymers*, **2013**, 99, 675-85	2.2	5
13	Identification of fucans from four species of sea cucumber by high temperature 1H NMR. *Journal of Ocean University of China*, **2014**, 13, 871-876	1	4
12	In vitro fermentation of hyaluronan by human gut microbiota: Changes in microbiota community and potential degradation mechanism. *Carbohydrate Polymers*, **2021**, 269, 118313	10.3	4
11	Fabrication of carbohydrate microarrays on poly(2-hydroxyethyl methacrylate)-cyanuric chloride-modified substrates for the analysis of carbohydrate–lectin interactions. *New Journal of Chemistry*, **2019**, 43, 9145-9151	3.6	3
10	Profiling and Structural Characterization of High Neu5Gc or Sulfate-containing O-glycans from Hyla Rabbit Intestinal Mucin. *Molecules*, **2019**, 24,	4.8	3

9	Mass spectrometric evidence for the mechanism of free-radical depolymerization of various types of glycosaminoglycans. *Carbohydrate Polymers*, **2020**, 233, 115847	10.3	3
8	Structural Characterization and Interaction with RCA of a Highly Sulfated Keratan Sulfate from Blue Shark (Prionace glauca) Cartilage. *Marine Drugs*, **2018**, 16,	6	3
7	Serum Levels of Glycosaminoglycans and Chondroitin Sulfate/Hyaluronic Acid Disaccharides as Diagnostic Markers for Liver Diseases. *Journal of Carbohydrate Chemistry*, **2015**, 34, 55-69	1.7	2
6	Targeting lectin-like oxidized low-density lipoprotein receptor-1 triggers autophagic program in esophageal cancer. *Cell Death and Differentiation*, **2021**,	12.7	2
5	In vitro fermentation and isolation of heparin-degrading bacteria from human gut microbiota. *Anaerobe*, **2021**, 68, 102289	2.8	2
4	Canagliflozin Prevents Lipid Accumulation, Mitochondrial Dysfunction, and Gut Microbiota Dysbiosis in Mice With Diabetic Cardiovascular Disease.. *Frontiers in Pharmacology*, **2022**, 13, 839640	5.6	2
3	Carbohydrate microarray-based analysis of specific interactions between saccharides from algin and influenza A viral hemagglutinin. *Analytical Methods*, **2019**, 11, 3641-3647	3.2	1
2	Highly sialylated mucin-type glycopeptide from porcine intestinal mucosa after heparin extraction: O-glycan profiling and immunological activity evaluation. *Glycoconjugate Journal*, **2021**, 38, 527-537	3	1
1	Comparison of Different Labeling Techniques for the LC-MS Profiling of Human Milk Oligosaccharides. *Frontiers in Chemistry*, **2021**, 9, 691299	5	0