

# Guoyun Li

## List of Publications by Year in descending order

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67  
papers

2,828  
citations

201385

27  
h-index

174990

52  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3336  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dietary fucoidan modulates the gut microbiota in mice by increasing the abundance of <i>Lactobacillus</i> and <i>Ruminococcaceae</i> . <i>Food and Function</i> , 2016, 7, 3224-3232.	2.1	245
2	Dietary fucoidan improves metabolic syndrome in association with increased <i>Akkermansia</i> population in the gut microbiota of high-fat diet-fed mice. <i>Journal of Functional Foods</i> , 2017, 28, 138-146.	1.6	207
3	Gut microbiota fermentation of marine polysaccharides and its effects on intestinal ecology: An overview. <i>Carbohydrate Polymers</i> , 2018, 179, 173-185.	5.1	165
4	Spongy bilayer dressing composed of chitosan- $\text{Ag}$ nanoparticles and chitosan- <i>Bletilla striata</i> polysaccharide for wound healing applications. <i>Carbohydrate Polymers</i> , 2017, 157, 1538-1547.	5.1	150
5	Carrageenan-induced colitis is associated with decreased population of anti-inflammatory bacterium, <i>Akkermansia muciniphila</i> , in the gut microbiota of C57BL/6J mice. <i>Toxicology Letters</i> , 2017, 279, 87-95.	0.4	130
6	Sequence determination and anticoagulant and antithrombotic activities of a novel sulfated fucan isolated from the sea cucumber <i>Isostichopus badionotus</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 989-1000.	1.1	129
7	Production of chondroitin in metabolically engineered <i>E. coli</i> . <i>Metabolic Engineering</i> , 2015, 27, 92-100.	3.6	117
8	Sulfation pattern of the fucose branch is important for the anticoagulant and antithrombotic activities of fucosylated chondroitin sulfates. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 3054-3066.	1.1	98
9	Marine polysaccharides attenuate metabolic syndrome by fermentation products and altering gut microbiota: An overview. <i>Carbohydrate Polymers</i> , 2018, 195, 601-612.	5.1	94
10	A mutant-cell library for systematic analysis of heparan sulfate structure-function relationships. <i>Nature Methods</i> , 2018, 15, 889-899.	9.0	71
11	Bottom-Up Low Molecular Weight Heparin Analysis Using Liquid Chromatography-Fourier Transform Mass Spectrometry for Extensive Characterization. <i>Analytical Chemistry</i> , 2014, 86, 6626-6632.	3.2	70
12	Structural modulation of gut microbiota by chondroitin sulfate and its oligosaccharide. <i>International Journal of Biological Macromolecules</i> , 2016, 89, 489-498.	3.6	68
13	Preparation of water-soluble melanin from squid ink using ultrasound-assisted degradation and its anti-oxidant activity. <i>Journal of Food Science and Technology</i> , 2014, 51, 3680-3690.	1.4	67
14	Degradation of chondroitin sulfate by the gut microbiota of Chinese individuals. <i>International Journal of Biological Macromolecules</i> , 2016, 86, 112-118.	3.6	62
15	Combinatorial one-pot chemoenzymatic synthesis of heparin. <i>Carbohydrate Polymers</i> , 2015, 122, 399-407.	5.1	59
16	Dietary Polysaccharide from <i>Enteromorpha Clathrata</i> Modulates Gut Microbiota and Promotes the Growth of <i>Akkermansia muciniphila</i> , <i>Bifidobacterium</i> spp. and <i>Lactobacillus</i> spp.. <i>Marine Drugs</i> , 2018, 16, 167.	2.2	59
17	Glycosaminoglycanomics of Cultured Cells Using a Rapid and Sensitive LC-MS/MS Approach. <i>ACS Chemical Biology</i> , 2015, 10, 1303-1310.	1.6	58
18	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.	5.1	58

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19	A novel glycosaminoglycan-like polysaccharide from abalone <i>Haliotis discus hannai</i> Ino: Purification, structure identification and anticoagulant activity. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 1160-1166.	3.6	56
20	Antithrombotic activities of fucosylated chondroitin sulfates and their depolymerized fragments from two sea cucumbers. <i>Carbohydrate Polymers</i> , 2016, 152, 343-350.	5.1	55
21	In Vivo Anti-Cancer Mechanism of Low-Molecular-Weight Fucosylated Chondroitin Sulfate (LFCS) from Sea Cucumber <i>Cucumaria frondosa</i> . <i>Molecules</i> , 2016, 21, 625.	1.7	49
22	Changes in glycosaminoglycan structure on differentiation of human embryonic stem cells towards mesoderm and endoderm lineages. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2014, 1840, 1993-2003.	1.1	41
23	Analysis of 3-O-sulfo group-containing heparin tetrasaccharides in heparin by liquid chromatography-mass spectrometry. <i>Analytical Biochemistry</i> , 2014, 455, 3-9.	1.1	36
24	Sulfated glycosaminoglycans in decellularized placenta matrix as critical regulators for cutaneous wound healing. <i>Acta Biomaterialia</i> , 2021, 122, 199-210.	4.1	33
25	Method to Detect Contaminants in Heparin Using Radical Depolymerization and Liquid Chromatography-mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 326-330.	3.2	32
26	Structure and Activity of a New Low-Molecular-Weight Heparin Produced by Enzymatic Ultrafiltration. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 1375-1383.	1.6	31
27	Extraction, isolation and structural characterization of a novel polysaccharide from <i>Cyclocarya paliurus</i> . <i>International Journal of Biological Macromolecules</i> , 2019, 132, 864-870.	3.6	31
28	Recent progress and advanced technology in carbohydrate-based drug development. <i>Current Opinion in Biotechnology</i> , 2021, 69, 191-198.	3.3	31
29	Dietary Keratan Sulfate from Shark Cartilage Modulates Gut Microbiota and Increases the Abundance of <i>Lactobacillus</i> spp.. <i>Marine Drugs</i> , 2016, 14, 224.	2.2	29
30	Microwave-assisted synthesis of glycopolymers by ring-opening metathesis polymerization (ROMP) in an emulsion system. <i>Polymer Chemistry</i> , 2017, 8, 6709-6719.	1.9	29
31	Gangliosides profiling in serum of breast cancer patient: GM3 as a potential diagnostic biomarker. <i>Glycoconjugate Journal</i> , 2019, 36, 419-428.	1.4	29
32	Fucoidan from sea cucumber <i>Holothuria polii</i> : Structural elucidation and stimulation of hematopoietic activity. <i>International Journal of Biological Macromolecules</i> , 2020, 154, 1123-1131.	3.6	29
33	Structural characterization and anti-thrombotic properties of fucoidan from <i>Nemacystus decipiens</i> . <i>International Journal of Biological Macromolecules</i> , 2018, 120, 1817-1822.	3.6	28
34	In vitro fermentation of hyaluronan by human gut microbiota: Changes in microbiota community and potential degradation mechanism. <i>Carbohydrate Polymers</i> , 2021, 269, 118313.	5.1	28
35	Optimization of bioprocess conditions improves production of a CHO cell-derived, bioengineered heparin. <i>Biotechnology Journal</i> , 2015, 10, 1067-1081.	1.8	26
36	Glycosaminoglycans and glycolipids as potential biomarkers in lung cancer. <i>Glycoconjugate Journal</i> , 2017, 34, 661-669.	1.4	26

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37	Comprehensive <i>N</i> -Glycome Profiling of Cells and Tissues for Breast Cancer Diagnosis. <i>Journal of Proteome Research</i> , 2019, 18, 2559-2570.	1.8	26
38	Structure and immunomodulatory activity of a sulfated agarose with pyruvate and xylose substitutes from <i>Polysiphonia senticulosa</i> Harvey. <i>Carbohydrate Polymers</i> , 2017, 176, 29-37.	5.1	24
39	Heparin stability by determining unsubstituted amino groups using hydrophilic interaction chromatography mass spectrometry. <i>Analytical Biochemistry</i> , 2014, 461, 46-48.	1.1	22
40	Anti-Metabolic Syndrome Effects of Fucoidan from <i>Fucus vesiculosus</i> via Reactive Oxygen Species-Mediated Regulation of JNK, Akt, and AMPK Signaling. <i>Molecules</i> , 2019, 24, 3319.	1.7	21
41	Two different fucosylated chondroitin sulfates: Structural elucidation, stimulating hematopoiesis and immune-enhancing effects. <i>Carbohydrate Polymers</i> , 2020, 230, 115698.	5.1	21
42	Anti-diabetic activities of agaropectin-derived oligosaccharides from <i>Gloiopeltis furcata</i> via regulation of mitochondrial function. <i>Carbohydrate Polymers</i> , 2020, 229, 115482.	5.1	20
43	Low anticoagulant heparin oligosaccharides as inhibitors of BACE-1, the Alzheimer's $\beta$ -secretase. <i>Carbohydrate Polymers</i> , 2016, 151, 51-59.	5.1	19
44	Chemoenzymatic Synthesis of Heparan Sulfate Mimetic Glycopolymers and Their Interactions with the Receptor for Advanced Glycation End-Product. <i>ACS Macro Letters</i> , 2019, 8, 1570-1574.	2.3	16
45	Conformational flexibility of PL12 family heparinases: structure and substrate specificity of heparinase III from <i>Bacteroides thetaiotaomicron</i> (BT4657). <i>Glycobiology</i> , 2017, 27, 176-187.	1.3	14
46	Glycosaminoglycanomic profiling of human milk in different stages of lactation by liquid chromatography-tandem mass spectrometry. <i>Food Chemistry</i> , 2018, 258, 231-236.	4.2	11
47	Canagliflozin Prevents Lipid Accumulation, Mitochondrial Dysfunction, and Gut Microbiota Dysbiosis in Mice With Diabetic Cardiovascular Disease. <i>Frontiers in Pharmacology</i> , 2022, 13, 839640.	1.6	11
48	Factors Released from Endothelial Cells Exposed to Flow Impact Adhesion, Proliferation, and Fate Choice in the Adult Neural Stem Cell Lineage. <i>Stem Cells and Development</i> , 2017, 26, 1199-1213.	1.1	10
49	Profiling pneumococcal type 3-derived oligosaccharides by high resolution liquid chromatography-tandem mass spectrometry. <i>Journal of Chromatography A</i> , 2015, 1397, 43-51.	1.8	9
50	Mass spectrometric evidence for the mechanism of free-radical depolymerization of various types of glycosaminoglycans. <i>Carbohydrate Polymers</i> , 2020, 233, 115847.	5.1	9
51	In vitro fermentation and isolation of heparin-degrading bacteria from human gut microbiota. <i>Anaerobe</i> , 2021, 68, 102289.	1.0	8
52	Targeting lectin-like oxidized low-density lipoprotein receptor-1 triggers autophagic program in esophageal cancer. <i>Cell Death and Differentiation</i> , 2022, 29, 697-708.	5.0	7
53	A purification process for heparin and precursor polysaccharides using the pH responsive behavior of chitosan. <i>Biotechnology Progress</i> , 2015, 31, 1348-1359.	1.3	6
54	Biochemical Properties of a New Polysaccharide Lyase Family 25 Ulvan Lyase TsUly25B from Marine Bacterium <i>Thalassomonas</i> sp. LD5. <i>Marine Drugs</i> , 2022, 20, 168.	2.2	6

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55	N-Sulfotestosteronan, A Novel Substrate for Heparan Sulfate 6-O-Sulfotransferases and its Analysis by Oxidative Degradation. <i>Biopolymers</i> , 2013, 99, 675-685.	1.2	5
56	Identification of fucans from four species of sea cucumber by high temperature 1H NMR. <i>Journal of Ocean University of China</i> , 2014, 13, 871-876.	0.6	5
57	Fabrication of carbohydrate microarrays on poly(2-hydroxyethyl methacrylate)-cyanuric chloride-modified substrates for the analysis of carbohydrate-lectin interactions. <i>New Journal of Chemistry</i> , 2019, 43, 9145-9151.	1.4	5
58	Profiling and Structural Characterization of High Neu5Gc or Sulfate-containing O-glycans from Hyla Rabbit Intestinal Mucin. <i>Molecules</i> , 2019, 24, 1365.	1.7	5
59	Highly sialylated mucin-type glycopeptide from porcine intestinal mucosa after heparin extraction: O-glycan profiling and immunological activity evaluation. <i>Glycoconjugate Journal</i> , 2021, 38, 527-537.	1.4	5
60	Comparison of Different Labeling Techniques for the LC-MS Profiling of Human Milk Oligosaccharides. <i>Frontiers in Chemistry</i> , 2021, 9, 691299.	1.8	5
61	Serum Levels of Glycosaminoglycans and Chondroitin Sulfate/Hyaluronic Acid Disaccharides as Diagnostic Markers for Liver Diseases. <i>Journal of Carbohydrate Chemistry</i> , 2015, 34, 55-69.	0.4	3
62	Structural Characterization and Interaction with RCA120 of a Highly Sulfated Keratan Sulfate from Blue Shark ( <i>Prionace glauca</i> ) Cartilage. <i>Marine Drugs</i> , 2018, 16, 128.	2.2	3
63	IDDF2021-ABS-0198...Canagliflozin alleviates diabetic cardiovascular disease via lipid lowering, mitochondrial homeostasis, and gut microbiota regulation. , 2021, , .		3
64	Carbohydrate microarrays fabricated on poly(2-methylacrylic acid)-based substrates for analysis of carbohydrate-protein interactions. <i>New Journal of Chemistry</i> , 0, , .	1.4	2
65	Carbohydrate microarray-based analysis of specific interactions between saccharides from algin and influenza A viral hemagglutinin. <i>Analytical Methods</i> , 2019, 11, 3641-3647.	1.3	1
66	Isolation and structural characterization of novel acid mucopolysaccharide from the viscera of <i>Haliotis discus hannai</i> . , 2011, , .		0
67	IDDF2021-ABS-0197...Delayed intervention of agaropectin-derived oligosaccharides alleviate lipid accumulation by modulating intestinal flora homeostasis. , 2021, , .		0