List of Publications by Year in descending order

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CHOVENIL

#	Article	IF	CITATIONS
1	Dietary fucoidan modulates the gut microbiota in mice by increasing the abundance of <i>Lactobacillus</i> and <i>Ruminococcaceae</i> . Food and Function, 2016, 7, 3224-3232.	4.6	245
2	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.	3.4	207
3	Gut microbiota fermentation of marine polysaccharides and its effects on intestinal ecology: An overview. Carbohydrate Polymers, 2018, 179, 173-185.	10.2	165
4	Spongy bilayer dressing composed of chitosan–Ag nanoparticles and chitosan–Bletilla striata polysaccharide for wound healing applications. Carbohydrate Polymers, 2017, 157, 1538-1547.	10.2	150
5	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.	0.8	130
6	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.	2.4	129
7	Production of chondroitin in metabolically engineered E. coli. Metabolic Engineering, 2015, 27, 92-100.	7.0	117
8	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, 3054-3066.	2.4	98
9	Marine polysaccharides attenuate metabolic syndrome by fermentation products and altering gut microbiota: An overview. Carbohydrate Polymers, 2018, 195, 601-612.	10.2	94
10	A mutant-cell library for systematic analysis of heparan sulfate structure–function relationships. Nature Methods, 2018, 15, 889-899.	19.0	71
11	Bottom-Up Low Molecular Weight Heparin Analysis Using Liquid Chromatography-Fourier Transform Mass Spectrometry for Extensive Characterization. Analytical Chemistry, 2014, 86, 6626-6632.	6.5	70
12	Structural modulation of gut microbiota by chondroitin sulfate and its oligosaccharide. International Journal of Biological Macromolecules, 2016, 89, 489-498.	7.5	68
13	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, 3680-3690.	2.8	67
14	Degradation of chondroitin sulfate by the gut microbiota of Chinese individuals. International Journal of Biological Macromolecules, 2016, 86, 112-118.	7.5	62
15	Combinatorial one-pot chemoenzymatic synthesis of heparin. Carbohydrate Polymers, 2015, 122, 399-407.	10.2	59
16	Dietary Polysaccharide from Enteromorpha Clathrata Modulates Gut Microbiota and Promotes the Growth of Akkermansia muciniphila, Bifidobacterium spp. and Lactobacillus spp Marine Drugs, 2018, 16, 167.	4.6	59
17	Glycosaminoglycanomics of Cultured Cells Using a Rapid and Sensitive LC-MS/MS Approach. ACS Chemical Biology, 2015, 10, 1303-1310.	3.4	58
18	A novel structural fucosylated chondroitin sulfate from Holothuria Mexicana and its effects on growth factors binding and anticoagulation. Carbohydrate Polymers, 2018, 181, 1160-1168.	10.2	58

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19	A novel glycosaminoglycan-like polysaccharide from abalone Haliotis discus hannai Ino: Purification, structure identification and anticoagulant activity. International Journal of Biological Macromolecules, 2011, 49, 1160-1166.	7.5	56
20	Antithrombotic activities of fucosylated chondroitin sulfates and their depolymerized fragments from two sea cucumbers. Carbohydrate Polymers, 2016, 152, 343-350.	10.2	55
21	In Vivo Anti-Cancer Mechanism of Low-Molecular-Weight Fucosylated Chondroitin Sulfate (LFCS) from Sea Cucumber Cucumaria frondosa. Molecules, 2016, 21, 625.	3.8	49
22	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.	2.4	41
23	Analysis of 3-O-sulfo group-containing heparin tetrasaccharides in heparin by liquid chromatography–mass spectrometry. Analytical Biochemistry, 2014, 455, 3-9.	2.4	36
24	Sulfated glycosaminoglycans in decellularized placenta matrix as critical regulators for cutaneous wound healing. Acta Biomaterialia, 2021, 122, 199-210.	8.3	33
25	Method to Detect Contaminants in Heparin Using Radical Depolymerization and Liquid Chromatography–Mass Spectrometry. Analytical Chemistry, 2014, 86, 326-330.	6.5	32
26	Structure and Activity of a New Low-Molecular-Weight Heparin Produced by Enzymatic Ultrafiltration. Journal of Pharmaceutical Sciences, 2014, 103, 1375-1383.	3.3	31
27	Extraction, isolation and structural characterization of a novel polysaccharide from Cyclocarya paliurus. International Journal of Biological Macromolecules, 2019, 132, 864-870.	7.5	31
28	Recent progress and advanced technology in carbohydrate-based drug development. Current Opinion in Biotechnology, 2021, 69, 191-198.	6.6	31
29	Dietary Keratan Sulfate from Shark Cartilage Modulates Gut Microbiota and Increases the Abundance of Lactobacillus spp Marine Drugs, 2016, 14, 224.	4.6	29
30	Microwave-assisted synthesis of glycopolymers by ring-opening metathesis polymerization (ROMP) in an emulsion system. Polymer Chemistry, 2017, 8, 6709-6719.	3.9	29
31	Gangliosides profiling in serum of breast cancer patient: GM3 as a potential diagnostic biomarker. Glycoconjugate Journal, 2019, 36, 419-428.	2.7	29
32	Fucoidan from sea cucumber Holothuria polii: Structural elucidation and stimulation of hematopoietic activity. International Journal of Biological Macromolecules, 2020, 154, 1123-1131.	7.5	29
33	Structural characterization and anti-thrombotic properties of fucoidan from Nemacystus decipiens. International Journal of Biological Macromolecules, 2018, 120, 1817-1822.	7.5	28
34	In vitro fermentation of hyaluronan by human gut microbiota: Changes in microbiota community and potential degradation mechanism. Carbohydrate Polymers, 2021, 269, 118313.	10.2	28
35	Optimization of bioprocess conditions improves production of a CHO cellâ€derived, bioengineered heparin. Biotechnology Journal, 2015, 10, 1067-1081.	3.5	26
36	Glycosaminoglycans and glycolipids as potential biomarkers in lung cancer. Glycoconjugate Journal, 2017, 34, 661-669.	2.7	26

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37	Comprehensive <i>N</i> -Glycome Profiling of Cells and Tissues for Breast Cancer Diagnosis. Journal of Proteome Research, 2019, 18, 2559-2570.	3.7	26
38	Structure and immunomodulatory activity of a sulfated agarose with pyruvate and xylose substitutes from Polysiphonia senticulosa Harvey. Carbohydrate Polymers, 2017, 176, 29-37.	10.2	24
39	Heparin stability by determining unsubstituted amino groups using hydrophilic interaction chromatography mass spectrometry. Analytical Biochemistry, 2014, 461, 46-48.	2.4	22
40	Anti-Metabolic Syndrome Effects of Fucoidan from Fucus vesiculosus via Reactive Oxygen Species-Mediated Regulation of JNK, Akt, and AMPK Signaling. Molecules, 2019, 24, 3319.	3.8	21
41	Two different fucosylated chondroitin sulfates: Structural elucidation, stimulating hematopoiesis and immune-enhancing effects. Carbohydrate Polymers, 2020, 230, 115698.	10.2	21
42	Anti-diabetic activities of agaropectin-derived oligosaccharides from Gloiopeltis furcata via regulation of mitochondrial function. Carbohydrate Polymers, 2020, 229, 115482.	10.2	20
43	Low anticoagulant heparin oligosaccharides as inhibitors of BACE-1, the Alzheimer's β-secretase. Carbohydrate Polymers, 2016, 151, 51-59.	10.2	19
44	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.	4.8	16
45	Conformational flexibility of PL12 family heparinases: structure and substrate specificity of heparinase III from <i>Bacteroides thetaiotaomicron</i> (BT4657). Clycobiology, 2017, 27, 176-187.	2.5	14
46	Glycosaminoglycanomic profiling of human milk in different stages of lactation by liquid chromatography-tandem mass spectrometry. Food Chemistry, 2018, 258, 231-236.	8.2	11
47	Canagliflozin Prevents Lipid Accumulation, Mitochondrial Dysfunction, and Gut Microbiota Dysbiosis in Mice With Diabetic Cardiovascular Disease. Frontiers in Pharmacology, 2022, 13, 839640.	3.5	11
48	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.	2.1	10
49	Profiling pneumococcal type 3-derived oligosaccharides by high resolution liquid chromatography–tandem mass spectrometry. Journal of Chromatography A, 2015, 1397, 43-51.	3.7	9
50	Mass spectrometric evidence for the mechanism of free-radical depolymerization of various types of glycosaminoglycans. Carbohydrate Polymers, 2020, 233, 115847.	10.2	9
51	InÂvitro fermentation and isolation of heparin-degrading bacteria from human gut microbiota. Anaerobe, 2021, 68, 102289.	2.1	8
52	Targeting lectin-like oxidized low-density lipoprotein receptor-1 triggers autophagic program in esophageal cancer. Cell Death and Differentiation, 2022, 29, 697-708.	11.2	7
53	A purification process for heparin and precursor polysaccharides using the pH responsive behavior of chitosan. Biotechnology Progress, 2015, 31, 1348-1359.	2.6	6
54	Biochemical Properties of a New Polysaccharide Lyase Family 25 Ulvan Lyase TsUly25B from Marine Bacterium Thalassomonas sp. LD5. Marine Drugs, 2022, 20, 168.	4.6	6

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55	N-Sulfotestosteronan, A Novel Substrate for Heparan Sulfate 6-O-Sulfotransferases and its Analysis by Oxidative Degradation. Biopolymers, 2013, 99, 675-685.	2.4	5
56	Identification of fucans from four species of sea cucumber by high temperature 1H NMR. Journal of Ocean University of China, 2014, 13, 871-876.	1.2	5
57	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.	2.8	5
58	Profiling and Structural Characterization of High Neu5Gc or Sulfate-containing O-glycans from Hyla Rabbit Intestinal Mucin. Molecules, 2019, 24, 1365.	3.8	5
59	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.	2.7	5
60	Comparison of Different Labeling Techniques for the LC-MS Profiling of Human Milk Oligosaccharides. Frontiers in Chemistry, 2021, 9, 691299.	3.6	5
61	Serum Levels of Glycosaminoglycans and Chondroitin Sulfate/Hyaluronic Acid Disaccharides as Diagnostic Markers for Liver Diseases. Journal of Carbohydrate Chemistry, 2015, 34, 55-69.	1.1	3
62	Structural Characterization and Interaction with RCA120 of a Highly Sulfated Keratan Sulfate from Blue Shark (Prionace glauca) Cartilage. Marine Drugs, 2018, 16, 128.	4.6	3
63	IDDF2021-ABS-0198â€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. New Journal of Chemistry, 0, , .	2.8	2
65	Carbohydrate microarray-based analysis of specific interactions between saccharides from algin and influenza A viral hemagglutinin. Analytical Methods, 2019, 11, 3641-3647.	2.7	1
66	Isolation and structural characterization of novel acid mucopolysaccharide from the viscera of Haliotis discus hannai. , 2011, , .		0
67	IDDF2021-ABS-0197â€Delayed intervention of agaropectin-derived oligosaccharides alleviate lipid accumulation by modulating intestinal flora homeostasis. , 2021, , .		0