Guang-Li Yu

List of Publications by Citations

115 papers	3,676 citations	30 h-index	58 g-index
119 ext. papers	4,517 ext. citations	6.3 avg, IF	5.51 L-index

#	Paper	IF	Citations
115	Chemical structures and bioactivities of sulfated polysaccharides from marine algae. *Marine Drugs*, **2011**, 9, 196-223	6	688
114	Comparison of structures and anticoagulant activities of fucosylated chondroitin sulfates from different sea cucumbers. *Carbohydrate Polymers*, **2011**, 83, 688-696	10.3	196
113	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
112	Chitosan-Based Nanomaterials for Drug Delivery. *Molecules*, **2018**, 23,	4.8	180
111	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
110	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
109	Gut microbiota fermentation of marine polysaccharides and its effects on intestinal ecology: An overview. *Carbohydrate Polymers*, **2018**, 179, 173-185	10.3	112
108	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
107	In vitro and in vivo hypoglycemic effects of brown algal fucoidans. *International Journal of Biological Macromolecules*, **2016**, 82, 249-55	7.9	90
106	Adsorption of heavy metal ions, dyes and proteins by chitosan composites and derivatives □A review. *Journal of Ocean University of China*, **2013**, 12, 500-508	1	72
105	Inhibition of Influenza A Virus Infection by Fucoidan Targeting Viral Neuraminidase and Cellular EGFR Pathway. *Scientific Reports*, **2017**, 7, 40760	4.9	70
104	Sequence determination of sulfated carrageenan-derived oligosaccharides by high-sensitivity negative-ion electrospray tandem mass spectrometry. *Analytical Chemistry*, **2006**, 78, 8499-505	7.8	63
103	Marine polysaccharides attenuate metabolic syndrome by fermentation products and altering gut microbiota: An overview. *Carbohydrate Polymers*, **2018**, 195, 601-612	10.3	59
102	In□vitro fermentation of alginate and its derivatives by human gut microbiota. *Anaerobe*, **2016**, 39, 19-25	2.8	54
101	Properties of polysaccharides in several seaweeds from Atlantic Canada and their potential anti-influenza viral activities. *Journal of Ocean University of China*, **2012**, 11, 205-212	1	52
100	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
99	Sequence determination of a non-sulfated glycosaminoglycan-like polysaccharide from melanin-free ink of the squid Ommastrephes bartrami by negative-ion electrospray tandem mass spectrometry and NMR spectroscopy. *Glycoconjugate Journal*, **2008**, 25, 481-92	3	48

98	Degradation of Marine Algae-Derived Carbohydrates by Bacteroidetes Isolated from Human Gut Microbiota. *Marine Drugs*, **2017**, 15,	6	47
97	Structural modulation of gut microbiota by chondroitin sulfate and its oligosaccharide. *International Journal of Biological Macromolecules*, **2016**, 89, 489-98	7.9	46
96	Analysis of structural heterogeneity of fucoidan from Hizikia fusiforme by ES-CID-MS/MS. *Carbohydrate Polymers*, **2012**, 90, 602-7	10.3	44
95	Isolation and characterization of an agaro-oligosaccharide (AO)-hydrolyzing bacterium from the gut microflora of Chinese individuals. *PLoS ONE*, **2014**, 9, e91106	3.7	44
94	Antithrombotic activities of fucosylated chondroitin sulfates and their depolymerized fragments from two sea cucumbers. *Carbohydrate Polymers*, **2016**, 152, 343-350	10.3	44
93	Biosorption of lead from aqueous solutions by ion-imprinted tetraethylenepentamine modified chitosan beads. *International Journal of Biological Macromolecules*, **2016**, 86, 562-9	7.9	43
92	Unravelling glucan recognition systems by glycome microarrays using the designer approach and mass spectrometry. *Molecular and Cellular Proteomics*, **2015**, 14, 974-88	7.6	42
91	Purification, structural characterization, and immunomodulatory activity of the polysaccharides from Ganoderma lucidum. *International Journal of Biological Macromolecules*, **2020**, 143, 806-813	7.9	41
90	Degradation of chondroitin sulfate by the gut microbiota of Chinese individuals. *International Journal of Biological Macromolecules*, **2016**, 86, 112-8	7.9	40
89	A □glucan from Durvillaea Antarctica has immunomodulatory effects on RAW264.7 macrophages via toll-like receptor 4. *Carbohydrate Polymers*, **2018**, 191, 255-265	10.3	38
88	In Vivo Anti-Cancer Mechanism of Low-Molecular-Weight Fucosylated Chondroitin Sulfate (LFCS) from Sea Cucumber Cucumaria frondosa. *Molecules*, **2016**, 21,	4.8	37
87	Effect and limitation of excess ammonium on the release of O-glycans in reducing forms from glycoproteins under mild alkaline conditions for glycomic and functional analysis. *Analytical Chemistry*, **2010**, 82, 9534-42	7.8	35
86	Total synthesis and structure-activity relationship of glycoglycerolipids from marine organisms. *Marine Drugs*, **2014**, 12, 3634-59	6	33
85	Dietary Polysaccharide from Modulates Gut Microbiota and Promotes the Growth of , spp. and spp. *Marine Drugs*, **2018**, 16,	6	30
84	Anti-HBV activity and mechanism of marine-derived polyguluronate sulfate (PGS) in vitro. *Carbohydrate Polymers*, **2016**, 143, 139-48	10.3	28
83	Acetylated chitosan oligosaccharides act as antagonists against glutamate-induced PC12 cell death via Bcl-2/Bax signal pathway. *Marine Drugs*, **2015**, 13, 1267-89	6	27
82	Adsorptive removal of patulin from aqueous solution using thiourea modified chitosan resin. *International Journal of Biological Macromolecules*, **2015**, 80, 520-8	7.9	26
81	Extraction, isolation and structural characterization of polysaccharides from a red alga Gloiopeltis furcata. *Journal of Ocean University of China*, **2010**, 9, 193-197	1	26

80	Applications of mass spectrometry to structural analysis of marine oligosaccharides. *Marine Drugs*, **2014**, 12, 4005-30	6	25
79	Study on quality control of sulfated polysaccharide drug, propylene glycol alginate sodium sulfate (PSS). *Carbohydrate Polymers*, **2016**, 144, 330-7	10.3	24
78	Microwave-assisted synthesis of glycopolymers by ring-opening metathesis polymerization (ROMP) in an emulsion system. *Polymer Chemistry*, **2017**, 8, 6709-6719	4.9	24
77	Determination of M/G ratio of propylene glycol alginate sodium sulfate by HPLC with pre-column derivatization. *Carbohydrate Polymers*, **2014**, 104, 23-8	10.3	23
76	Dietary Keratan Sulfate from Shark Cartilage Modulates Gut Microbiota and Increases the Abundance of Lactobacillus spp. *Marine Drugs*, **2016**, 14,	6	23
75	Structural and compositional characteristics of hybrid carrageenans from red algae Chondracanthus chamissoi. *Carbohydrate Polymers*, **2012**, 89, 914-9	10.3	21
74	Specificities of Ricinus communis agglutinin 120 interaction with sulfated galactose. *FEBS Letters*, **2011**, 585, 3927-34	3.8	20
73	Extraction, Isolation, Structural Characterization and Anti-Tumor Properties of an Apigalacturonan-Rich Polysaccharide from the Sea Grass Zostera caespitosa Miki. *Marine Drugs*, **2015**, 13, 3710-31	6	19
72	Structural characterization of natural ideal 6-O-sulfated agarose from red alga Gloiopeltis furcata. *Carbohydrate Polymers*, **2012**, 89, 883-9	10.3	19
71	Extraction, isolation and structural characterization of a novel polysaccharide from Cyclocarya paliurus. *International Journal of Biological Macromolecules*, **2019**, 132, 864-870	7.9	18
70	Odd-numbered agaro-oligosaccharides alleviate type 2 diabetes mellitus and related colonic microbiota dysbiosis in mice. *Carbohydrate Polymers*, **2020**, 240, 116261	10.3	18
69	Synthesis of Fucoidan-Mimetic Glycopolymers with Well-Defined Sulfation Patterns via Emulsion Ring-Opening Metathesis Polymerization. *ACS Macro Letters*, **2018**, 7, 330-335	6.6	18
68	Fucoidans as a platform for new anticoagulant drugs discovery. *Pure and Applied Chemistry*, **2014**, 86, 1365-1375	2.1	18
67	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
66	OM2, a Novel Oligomannuronate-Chromium(III) Complex, Promotes Mitochondrial Biogenesis and Lipid Metabolism in 3T3-L1 Adipocytes via the AMPK-PGC1Pathway. *PLoS ONE*, **2015**, 10, e0131930	3.7	17
65	Structural characterization and anti-thrombotic properties of fucoidan from Nemacystus decipiens. *International Journal of Biological Macromolecules*, **2018**, 120, 1817-1822	7.9	17
64	Comprehensive N-Glycome Profiling of Cells and Tissues for Breast Cancer Diagnosis. *Journal of Proteome Research*, **2019**, 18, 2559-2570	5.6	16
63	Modulating Cell-Surface Receptor Signaling and Ion Channel Functions by In Situ Glycan Editing. *Angewandte Chemie - International Edition*, **2018**, 57, 967-971	16.4	16

62	Gangliosides profiling in serum of breast cancer patient: GM3 as a potential diagnostic biomarker. *Glycoconjugate Journal*, **2019**, 36, 419-428	3	16
61	Marine glycan-based antiviral agents in clinical or preclinical trials. *Reviews in Medical Virology*, **2019**, 29, e2043	11.7	15
60	Structural Study of Sulfated Fuco-Oligosaccharide Branched Glucuronomannan from Kjellmaniella crassifolia by ESI-CID-MS/MS. *Journal of Carbohydrate Chemistry*, **2015**, 34, 303-317	1.7	15
59	Activated AMPK explains hypolipidemic effects of sulfated low molecular weight guluronate on HepG2 cells. *European Journal of Medicinal Chemistry*, **2014**, 85, 304-10	6.8	15
58	Acidolysis-based component mapping of glycosaminoglycans by reversed-phase high-performance liquid chromatography with off-line electrospray ionization-tandem mass spectrometry: evidence and tags to distinguish different glycosaminoglycans. *Analytical Biochemistry*, **2014**, 465, 63-9	3.1	15
57	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
56	Salinity-induced anti-angiogenesis activities and structural changes of the polysaccharides from cultured Cordyceps Militaris. *PLoS ONE*, **2014**, 9, e103880	3.7	14
55	An HPLC method for microanalysis and pharmacokinetics of marine sulfated polysaccharide PSS-loaded poly lactic-co-glycolic acid (PLGA) nanoparticles in rat plasma. *Marine Drugs*, **2013**, 11, 1113-25	6	13
54	Recent Advances in Pharmaceutical Potential of Brown Algal Polysaccharides and their Derivatives. *Current Pharmaceutical Design*, **2019**, 25, 1290-1311	3.3	13
53	Two different fucosylated chondroitin sulfates: Structural elucidation, stimulating hematopoiesis and immune-enhancing effects. *Carbohydrate Polymers*, **2020**, 230, 115698	10.3	13
52	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
51	A β1,3/1,6-glucan from Durvillaea Antarctica inhibits tumor progression in vivo as an immune stimulator. *Carbohydrate Polymers*, **2019**, 222, 114993	10.3	12
50	Alkaline Extraction, Structural Characterization, and Bioactivities of (1-6)-β-D-Glucan from. *Molecules*, **2019**, 24,	4.8	11
49	Low anticoagulant heparin oligosaccharides as inhibitors of BACE-1, the Alzheimer's β-secretase. *Carbohydrate Polymers*, **2016**, 151, 51-59	10.3	11
48	Collaborative assembly of doxorubicin and galactosyl diblock glycopolymers for targeted drug delivery of hepatocellular carcinoma. *Biomaterials Science*, **2020**, 8, 189-200	7.4	11
47	The mechanisms of sulfated polysaccharide drug of propylene glycol alginate sodium sulfate (PSS) on bleeding side effect. *Carbohydrate Polymers*, **2018**, 194, 365-374	10.3	10
46	Sulfated glycosaminoglycans in decellularized placenta matrix as critical regulators for cutaneous wound healing. *Acta Biomaterialia*, **2021**, 122, 199-210	10.8	9
45	Protective effect of d-tetramannuronic acid tetrasodium salt on UVA-induced photo-aging in HaCaT cells. *Biomedicine and Pharmacotherapy*, **2020**, 126, 110094	7.5	8

44	Preparation, characterization and pharmacokinetics of fluorescence labeled propylene glycol alginate sodium sulfate. *Journal of Ocean University of China*, **2014**, 13, 683-690	1	8
43	Total Synthesis of Myrmekioside A, a Mono-O-alkyl-diglycosylglycerol from Marine Sponge Myrmekioderma sp.. *European Journal of Organic Chemistry*, **2015**, 2015, 4246-4253	3.2	8
42	Microanalysis of oligosaccharide HS203 in beagle dog plasma by postcolumn fluorescence derivatization method. *Carbohydrate Polymers*, **2012**, 89, 661-6	10.3	8
41	Anti-diabetic activities of agaropectin-derived oligosaccharides from Gloiopeltis furcata via regulation of mitochondrial function. *Carbohydrate Polymers*, **2020**, 229, 115482	10.3	8
40	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
39	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
38	Recent progress and advanced technology in carbohydrate-based drug development. *Current Opinion in Biotechnology*, **2021**, 69, 191-198	11.4	7
37	Fermentation of alginate and its derivatives by different enterotypes of human gut microbiota: Towards personalized nutrition using enterotype-specific dietary fibers. *International Journal of Biological Macromolecules*, **2021**, 183, 1649-1659	7.9	7
36	Structure and anti-influenza A (H1N1) virus activity of three polysaccharides from Eucheuma denticulatum. *Journal of Ocean University of China*, **2012**, 11, 527-532	1	6
35	Synthesis and Anti-Influenza A Virus Activity of 6′-amino-6′-deoxy-glucoglycerolipids Analogs. *Marine Drugs*, **2016**, 14,	6	6
34	Preparation of κ-carra-oligosaccharides with microwave assisted acid hydrolysis method. *Journal of Ocean University of China*, **2015**, 14, 345-349	1	5
33	Ultrasensitive Capillary Electrophoresis of Oligoguluronates with Laser-Induced Fluorescence Detection. *Chromatographia*, **2005**, 61, 615-618	2.1	5
32	Haimufang decoction, a Chinese medicine formula for lung cancer, arrests cell cycle, stimulates apoptosis in NCI-H1975 cells, and induces M1 polarization in RAW 264.7 macrophage cells. *BMC Complementary Medicine and Therapies*, **2020**, 20, 243	2.9	5
31	Photoprotective effect of Astragalus membranaceus polysaccharide on UVA-induced damage in HaCaT cells. *PLoS ONE*, **2020**, 15, e0235515	3.7	5
30	Fucoidan-Supplemented Diet Potentiates Immune Checkpoint Blockage by Enhancing Antitumor Immunity. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 733246	5.7	5
29	Dietary Polysaccharide from Attenuates Obesity and Increases the Intestinal Abundance of Butyrate-Producing Bacterium, , in Mice Fed a High-Fat Diet. *Polymers*, **2021**, 13,	4.5	5
28	Concise chemoenzymatic synthesis of heparan sulfate analogues as potent BACE-1 inhibitors. *Carbohydrate Polymers*, **2019**, 217, 232-239	10.3	4
27	Polyguluronate sulfate and its oligosaccharides but not heparin promotes FGF19/FGFR1c signaling. *Journal of Ocean University of China*, **2017**, 16, 532-536	1	4

26	Protective Effect of L-Hexaguluroic Acid Hexasodium Salt on UVA-Induced Photo-Aging in HaCaT Cells. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	4
25	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
24	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
23	Profiling and Structural Characterization of High Neu5Gc or Sulfate-containing O-glycans from Hyla Rabbit Intestinal Mucin. *Molecules*, **2019**, 24,	4.8	3
22	Polysaccharides purified from wild Cordyceps activate FGF2/FGFR1c signaling. *Journal of Ocean University of China*, **2015**, 14, 171-177	1	3
21	End-functionalised glycopolymers as glycosaminoglycan mimetics inhibit HeLa cell proliferation. *Polymer Chemistry*, **2020**, 11, 4714-4722	4.9	3
20	Mass spectrometric evidence for the mechanism of free-radical depolymerization of various types of glycosaminoglycans. *Carbohydrate Polymers*, **2020**, 233, 115847	10.3	3
19	Structural Characterization and Interaction with RCA of a Highly Sulfated Keratan Sulfate from Blue Shark (Prionace glauca) Cartilage. *Marine Drugs*, **2018**, 16,	6	3
18	SEQUENCE AND STRUCTURAL ANALYSIS OF □CARRAGEENAN-DERIVED OLIGOSACCHARIDES BY TWO-DIMENSIONAL NUCLEAR MAGNETIC RESONANCE1. *Journal of Phycology*, **2010**, 46, 831-838	3	3
17	Fucoidan from Suppresses Postprandial Hyperglycemia by Inhibiting Na/Glucose Cotransporter 1 Activity. *Marine Drugs*, **2020**, 18,	6	2
16	In□vitro fermentation and isolation of heparin-degrading bacteria from human gut microbiota. *Anaerobe*, **2021**, 68, 102289	2.8	2
15	Carrageenan oligosaccharides and associated carrageenan-degrading bacteria induce intestinal inflammation in germ-free mice. *Journal of Genetics and Genomics*, **2021**, 48, 815-824	4	2
14	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
13	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
12	Modulating Cell-Surface Receptor Signaling and Ion Channel Functions by In Situ Glycan Editing. *Angewandte Chemie*, **2018**, 130, 979-983	3.6	1
11	Natural Polymers with Antioxidant Properties: Poly-/oligosaccharides of Marine Origin **2012**, 179-201		1
10	Polysaccharide from edible alga Gloiopeltis furcata attenuates intestinal mucosal damage by therapeutically remodeling the interactions between gut microbiota and mucin O-glycans.. *Carbohydrate Polymers*, **2022**, 278, 118921	10.3	1
9	Porphyran-derived oligosaccharides alleviate NAFLD and related cecal microbiota dysbiosis in mice. *FASEB Journal*, **2021**, 35, e21458	0.9	1

8	Synthesis of Rare 6-Deoxy-d-/l-Heptopyranosyl Fluorides: Assembly of a Hexasaccharide Corresponding to Strain CG8486 Capsular Polysaccharide. *Journal of the American Chemical Society*, **2021**, 143, 11171-11179	16.4	1
7	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
6	Comparison of Different Labeling Techniques for the LC-MS Profiling of Human Milk Oligosaccharides. *Frontiers in Chemistry*, **2021**, 9, 691299	5	0
5	Comparative Proteomic Analysis of Fucosylated Glycoproteins Produced by Under Different Polysaccharide Nutrition Conditions.. *Frontiers in Microbiology*, **2022**, 13, 826942	5.7	
4	Photoprotective effect of Astragalus membranaceus polysaccharide on UVA-induced damage in HaCaT cells **2020**, 15, e0235515		
3	Photoprotective effect of Astragalus membranaceus polysaccharide on UVA-induced damage in HaCaT cells **2020**, 15, e0235515		
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