Yifa Zhou

List of Publications by Year
in descending order

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Version: 2024-02-01

129 papers	3,913 citations	101543 36 h-index	168389 53 g-index
129 all docs	129 docs citations	129 times ranked	4092 citing authors

#	Article	IF	Citations
1	Total fractionation and characterization of the water-soluble polysaccharides isolated from Panax ginseng C. A. Meyer. Carbohydrate Polymers, 2009, 77, 544-552.	10.2	205
2	The Inhibitory Effects of a Rhamnogalacturonan Î™ (RG-I) Domain from Ginseng Pectin on Galectin-3 and Its Structure-Activity Relationship. Journal of Biological Chemistry, 2013, 288, 33953-33965.	3.4	111
3	Analyses of active antioxidant polysaccharides from four edible mushrooms. International Journal of Biological Macromolecules, 2019, 123, 945-956.	7.5	109
4	Comparative studies of the antiproliferative effects of ginseng polysaccharides on HT-29 human colon cancer cells. Medical Oncology, 2011, 28, 175-181.	2.5	96
5	Antitumor Activities and Immunomodulatory Effects of Ginseng Neutral Polysaccharides in Combination with 5-Fluorouracil. Journal of Medicinal Food, 2010, 13, 270-277.	1.5	88
6	Rhamnogalacturonan I domains from ginseng pectin. Carbohydrate Polymers, 2010, 79, 811-817.	10.2	85
7	Dynamics of mcr-1 prevalence and mcr-1-positive Escherichia coli after the cessation of colistin use as a feed additive for animals in China: a prospective cross-sectional and whole genome sequencing-based molecular epidemiological study. Lancet Microbe, The, 2020, 1, e34-e43.	7.3	85
8	Ginsenoside compound K sensitizes human colon cancer cells to TRAIL-induced apoptosis via autophagy-dependent and -independent DR5 upregulation. Cell Death and Disease, 2016, 7, e2334-e2334.	6.3	84
9	Effects of pectin structure and crosslinking method on the properties of crosslinked pectin nanofibers. Carbohydrate Polymers, 2017, 157, 766-774.	10.2	83
10	Further analysis of the structure and immunological activity of an RG-I type pectin from Panax ginseng. Carbohydrate Polymers, 2012, 89, 519-525.	10.2	76
11	Polylactide nanofibers delivering doxycycline for chronic wound treatment. Materials Science and Engineering C, 2019, 104, 109745.	7.3	75
12	Extraction optimization, characterization, antioxidant and immunomodulatory activities of a novel polysaccharide from the wild mushroom Paxillus involutus. International Journal of Biological Macromolecules, 2018, 112, 326-332.	7.5	66
13	A long non-coding RNA,APOA4-AS, regulatesAPOA4expression depending on HuR in mice. Nucleic Acids Research, 2016, 44, 6423-6433.	14.5	65
14	Identification of natural products with neuronal and metabolic benefits through autophagy induction. Autophagy, 2017, 13, 41-56.	9.1	61
15	Pectinate nanofiber mat with high absorbency and antibacterial activity: A potential superior wound dressing to alginate and chitosan nanofiber mats. Carbohydrate Polymers, 2017, 174, 591-600.	10.2	59
16	Î±-Amylase-assisted extraction of polysaccharides from Panax ginseng. International Journal of Biological Macromolecules, 2015, 75, 152-157.	7.5	58
17	Cross-Linked Pectin Nanofibers with Enhanced Cell Adhesion. Biomacromolecules, 2018, 19, 490-498.	5.4	58
18	Boxâ€“Behnken design based statistical modeling for the extraction and physicochemical properties of pectin from sunflower heads and the comparison with commercial low-methoxyl pectin. Scientific Reports, 2020, 10, 3595.	3.3	58

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19	Analysis of the neutral polysaccharide fraction of MCP and its inhibitory activity on galectin-3. Glycoconjugate Journal, 2012, 29, 159-165.	2.7	57
20	The inhibitory effects and mechanisms of rhamnogalacturonan I pectin from potato on HT-29 colon cancer cell proliferation and cell cycle progression. International Journal of Food Sciences and Nutrition, 2013, 64, 36-43.	2.8	57
21	Immunomodulatory effects of Hericium erinaceus derived polysaccharides are mediated by intestinal immunology. Food and Function, 2017, 8, 1020-1027.	4.6	55
22	Ginsenoside Rg2 protects PC12Âcells against Î²-amyloid25-35-induced apoptosis via the phosphoinositide 3-kinase/Akt pathway. Chemico-Biological Interactions, 2017, 275, 152-161.	4.0	55
23	Temporal Transcriptomic and Proteomic Landscapes of Deteriorating Pancreatic Islets in Type 2 Diabetic Rats. Diabetes, 2017, 66, 2188-2200.	0.6	54
24	Pectic Bee Pollen Polysaccharide from Rosa rugosa Alleviates Diet-Induced Hepatic Steatosis and Insulin Resistance via Induction of AMPK/mTOR-Mediated Autophagy. Molecules, 2017, 22, 699.	3.8	54
25	Identification of the bioactive components from pH-modified citrus pectin and their inhibitory effects on galectin-3 function. Food Hydrocolloids, 2016, 58, 113-119.	10.7	48
26	Analysis of pectin from Panax ginseng flower buds and their binding activities to galectin-3. International Journal of Biological Macromolecules, 2019, 128, 459-467.	7.5	48
27	AgNPs-incorporated nanofiber mats: Relationship between AgNPs size/content, silver release, cytotoxicity, and antibacterial activity. Materials Science and Engineering C, 2021, 118, 111331.	7.3	48
28	Reducing the content of carrier polymer in pectin nanofibers by electrospinning at low loading followed with selective washing. Materials Science and Engineering C, 2016, 59, 885-893.	7.3	47
29	Structure elucidation and immunomodulatory activity of a Î²-glucan derived from the fruiting bodies of Amillariella mellea. Food Chemistry, 2018, 240, 534-543.	8.2	47
30	Alkali-soluble polysaccharides from mushroom fruiting bodies improve insulin resistance. International Journal of Biological Macromolecules, 2019, 126, 466-474.	7.5	46
31	Structural characterization of rhamnogalacturonan domains from Panax ginseng C. A. Meyer. Carbohydrate Polymers, 2019, 203, 119-127.	10.2	46
32	Multiple approaches to assess pectin binding to galectin-3. International Journal of Biological Macromolecules, 2016, 91, 994-1001.	7.5	45
33	The N-terminal tail coordinates with carbohydrate recognition domain to mediate galectin-3 induced apoptosis in T cells. Oncotarget, 2017, 8, 49824-49838.	1.8	44
34	The Two Endocytic Pathways Mediated by the Carbohydrate Recognition Domain and Regulated by the Collagen-like Domain of Galectin-3 in Vascular Endothelial Cells. PLoS ONE, 2012, 7, e52430.	2.5	40
35	Structural characterization and macrophage activation of a hetero-galactan isolated from Flammulina velutipes. Carbohydrate Polymers, 2018, 183, 207-218.	10.2	40
36	Macromolecular assemblies of complex polysaccharides with galectin-3 and their synergistic effects on function. Biochemical Journal, 2017, 474, 3849-3868.	3.7	37

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37	Selective effects of ginseng pectins on galectin-3-mediated T cell activation and apoptosis. Carbohydrate Polymers, 2019, 219, 121-129.	10.2	37
38	Cholesteryl-Modification of a Glucomannan from Bletilla striata and Its Hydrogel Properties. Molecules, 2014, 19, 9089-9100.	3.8	36
39	Pectic polysaccharides from Radix Sophorae Tonkinensis exhibit significant antioxidant effects. Carbohydrate Polymers, 2021, 262, 117925.	10.2	34
40	Comparative studies on the anti-tumor activities of high temperature- and pH-modified citrus pectins. Food and Function, 2013, 4, 960.	4.6	33
41	Crosslinked pectin nanofibers with well-dispersed Ag nanoparticles: Preparation and characterization. Carbohydrate Polymers, 2018, 199, 68-74.	10.2	33
42	A 3-O-methylated heterogalactan from Pleurotus eryngii activates macrophages. Carbohydrate Polymers, 2019, 206, 706-715.	10.2	32
43	A cancer vaccine based on fluorine-modified sialyl-Tn induces robust immune responses in a murine model. Oncotarget, 2017, 8, 47330-47343.	1.8	32
44	Adipose Snail1 Regulates Lipolysis and Lipid Partitioning by Suppressing Adipose Triacylglycerol Lipase Expression. Cell Reports, 2016, 17, 2015-2027.	6.4	31
45	A crosslinking strategy to make neutral polysaccharide nanofibers robust and biocompatible: With konjac glucomannan as an example. Carbohydrate Polymers, 2019, 215, 130-136.	10.2	31
46	Galectin-10: a new structural type of prototype galectin dimer and effects on saccharide ligand binding. Glycobiology, 2018, 28, 159-168.	2.5	30
47	Galactan isolated from Cantharellus cibarius modulates antitumor immune response by converting tumor-associated macrophages toward M1-like phenotype. Carbohydrate Polymers, 2019, 226, 115295.	10.2	30
48	Protective effects of ginsenoside Rg2 against memory impairment and neuronal death induced by Aî²25-35 in rats. Journal of Ethnopharmacology, 2021, 266, 113466.	4.1	30
49	Polysaccharide structure and immunological relationships of RG-I pectin from the bee pollen of Nelumbo nucifera. International Journal of Biological Macromolecules, 2018, 111, 660-666.	7.5	29
50	Preparing rhamnogalacturonan II domains from seven plant pectins using Penicillium oxalicum degradation and their structural comparison. Carbohydrate Polymers, 2018, 180, 209-215.	10.2	28
51	Structural analysis of water-soluble polysaccharides isolated from Panax notoginseng. International Journal of Biological Macromolecules, 2020, 155, 376-385.	7.5	28
52	Gefitinib enhances human colon cancer cells to TRAIL-induced apoptosis of via autophagy- and JNK-mediated death receptors upregulation. Apoptosis: an International Journal on Programmed Cell Death, 2016, 21, 1291-1301.	4.9	27
53	RNA-binding protein DDX1 is responsible for fatty acid-mediated repression of insulin translation. Nucleic Acids Research, 2018, 46, 12052-12066.	14.5	27
54	Structural characterization and immunomodulatory activity of a heterogalactan from Panax ginseng flowers. Food Research International, 2021, 140, 109859.	6.2	27

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55	Structural Characterization of a Rhamnogalacturonan I Domain from Ginseng and Its Inhibitory Effect on Galectin-3. Molecules, 2017, 22, 1016.	3.8	26
56	Temporal Proteomic Analysis of Pancreatic Î²-Cells in Response to Lipotoxicity and Glucolipotoxicity. Molecular and Cellular Proteomics, 2018, 17, 2119-2131.	3.8	25
57	Fungal sensitivity to and enzymatic deglycosylation of ginsenosides. Phytochemistry, 2012, 78, 65-71.	2.9	24
58	The water network in galectin-3 ligand binding site guides inhibitor design. Acta Biochimica Et Biophysica Sinica, 2015, 47, 192-198.	2.0	24
59	Human galectin-2 interacts with carbohydrates and peptides non-classically: new insight from X-ray crystallography and hemagglutination. Acta Biochimica Et Biophysica Sinica, 2016, 48, 939-947.	2.0	24
60	Preparation of individual galactan oligomers, their prebiotic effects, and use in estimating galactan chain length in pectin-derived polysaccharides. Carbohydrate Polymers, 2018, 199, 526-533.	10.2	24
61	Structural analyses of the HG-type pectin from notopterygium incisum and its effects on galectins. International Journal of Biological Macromolecules, 2020, 162, 1035-1043.	7.5	24
62	Galectin-3 N-terminal tail prolines modulate cell activity and glycan-mediated oligomerization/phase separation. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
63	Crystallization of Galectin-8 Linker Reveals Intricate Relationship between the N-terminal Tail and the Linker. International Journal of Molecular Sciences, 2016, 17, 2088.	4.1	23
64	Galectin-13, a different prototype galectin, does not bind Î²-galacto-sides and forms dimers via intermolecular disulfide bridges between Cys-136 and Cys-138. Scientific Reports, 2018, 8, 980.	3.3	23
65	The roles and mechanisms of homogalacturonan and rhamnogalacturonan I pectins on the inhibition of cell migration. International Journal of Biological Macromolecules, 2018, 106, 207-217.	7.5	23
66	Fluorine-modified sialyl-Tn-CRM197 vaccine elicits a robust immune response. Glycoconjugate Journal, 2019, 36, 399-408.	2.7	23
67	Gelatin-crosslinked pectin nanofiber mats allowing cell infiltration. Materials Science and Engineering C, 2020, 112, 110941.	7.3	23
68	Structural characterization of alkali-soluble polysaccharides from Panax ginseng C. A. Meyer. Royal Society Open Science, 2018, 5, 171644.	2.4	20
69	Screening of a Novel Polysaccharide Lyase Family 10 Pectate Lyase from Paenibacillus polymyxa KF-1: Cloning, Expression and Characterization. Molecules, 2018, 23, 2774.	3.8	20
70	Antiproliferative effects of protopanaxadiol ginsenosides on human colorectal cancer cells. Biomedical Reports, 2013, 1, 555-558.	2.0	19
71	Novel polysaccharide binding to the N-terminal tail of galectin-3 is likely modulated by proline isomerization. Glycobiology, 2017, 27, 1038-1051.	2.5	19
72	A novel linear 3-O-methylated galactan isolated from Cantharellus cibarius activates macrophages. Carbohydrate Polymers, 2019, 214, 34-43.	10.2	19

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73	Protective effects of ginsenoside Rg2 against H2O2-induced injury and apoptosis in H9c2 cells. International Journal of Clinical and Experimental Medicine, 2015, 8, 19938-47.	1.3	19
74	Synthesis and immunological evaluation of N-acyl modified Tn analogues as anticancer vaccine candidates. Bioorganic and Medicinal Chemistry, 2016, 24, 915-920.	3.0	18
75	Structural analysis of ginseng polysaccharides extracted by EDTA solution. RSC Advances, 2016, 6, 2724-2730.	3.6	18
76	Beta-1,6 glucan converts tumor-associated macrophages into an M1-like phenotype. Carbohydrate Polymers, 2020, 247, 116715.	10.2	18
77	Structureâ€“function studies of galectinâ€14, an important effector molecule in embryology. FEBS Journal, 2021, 288, 1041-1055.	4.7	18
78	<scp>CD</scp>146 interacts with galectinâ€3 to mediate endothelial cell migration. FEBS Letters, 2018, 592, 1817-1828.	2.8	17
79	Crosslinked starch nanofibers with high mechanical strength and excellent water resistance for biomedical applications. Biomedical Materials (Bristol), 2020, 15, 025007.	3.3	17
80	Human galectin-16 has a pseudo ligand binding site and plays a role in regulating c-Rel-mediated lymphocyte activity. Biochimica Et Biophysica Acta - General Subjects, 2021, 1865, 129755.	2.4	17
81	Antiarrhythmic effects of ginsenoside Rg2 on calcium chlorideâ€“induced arrhythmias without oral toxicity. Journal of Ginseng Research, 2020, 44, 717-724.	5.7	16
82	Structural characterization of a polysaccharide from dry mycelium of Penicillium chrysogenum that induces resistance to Tobacco mosaic virus in tobacco plants. International Journal of Biological Macromolecules, 2020, 156, 67-79.	7.5	16
83	Analysis of Herba Asari polysaccharides and their immunological activity. Carbohydrate Polymers, 2012, 87, 551-556.	10.2	15
84	Cell cycle arrest, apoptosis and autophagy induced by iminosugars on K562 cells. European Journal of Pharmacology, 2014, 731, 65-72.	3.5	15
85	Overexpression and characterization of a glycoside hydrolase family 1 enzyme from Cellulosimicrobium cellulans sp. 21 and its application for minor ginsenosides production. Journal of Molecular Catalysis B: Enzymatic, 2015, 120, 60-67.	1.8	15
86	Cloning and expression of a novel Î±-1,3-arabinofuranosidase from Penicillium oxalicum sp. 68. AMB Express, 2018, 8, 51.	3.0	15
87	NMR-based insight into galectin-3 binding to endothelial cell adhesion molecule CD146: Evidence for noncanonical interactions with the lectinâ€™s CRD Î²-sandwich F-face. Glycobiology, 2019, 29, 608-618.	2.5	15
88	An antimicrobial peptide-immobilized nanofiber mat with superior performances than the commercial silver-containing dressing. Materials Science and Engineering C, 2021, 119, 111608.	7.3	15
89	Rationally designed particle preloading method to improve protein delivery performance of electrospun polyester nanofibers. International Journal of Pharmaceutics, 2016, 512, 204-212.	5.2	14
90	Identification of key amino acid residues determining ligand binding specificity, homodimerization and cellular distribution of human Galectin-10. Glycobiology, 2019, 29, 85-93.	2.5	14

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91	Components of heat-treated Helianthus annuus L. pectin inhibit tumor growth and promote immunity in a mouse CT26 tumor model. Journal of Functional Foods, 2018, 48, 190-199.	3.4	14
92	Structure and antioxidant activity of six mushroom-derived heterogalactans. International Journal of Biological Macromolecules, 2022, 209, 1439-1449.	7.5	14
93	Autophagy activation by novel inducers prevents BECN2-mediated drug tolerance to cannabinoids. Autophagy, 2016, 12, 1460-1471.	9.1	12
94	Galectin-3 binds selectively to the terminal, non-reducing end of Î²(1â†'4)-galactans, with overall affinity increasing with chain length. Glycobiology, 2019, 29, 74-84.	2.5	12
95	Comparison of Analytical Methods for Determining Methylesterification and Acetylation of Pectin. Applied Sciences (Switzerland), 2021, 11, 4461.	2.5	12
96	Î²-1,6-Glucan From Pleurotus eryngii Modulates the Immunity and Gut Microbiota. Frontiers in Immunology, 2022, 13, 859923.	4.8	12
97	Galectin-13/placental protein 13: redox-active disulfides as switches for regulating structure, function and cellular distribution. Glycobiology, 2020, 30, 120-129.	2.5	11
98	Bee Pollen Polysaccharide From Rosa rugosa Thunb. (Rosaceae) Promotes Pancreatic Î²-Cell Proliferation and Insulin Secretion. Frontiers in Pharmacology, 2021, 12, 688073.	3.5	11
99	Resetting the ligand binding site of placental protein 13/galectin-13 recovers its ability to bind lactose. Bioscience Reports, 2018, 38, .	2.4	10
100	Dual crosslinking of folic acid-modified pectin nanoparticles for enhanced oral insulin delivery. , 2022, 135, 212746.		10
101	Comparative study of water-soluble polysaccharides isolated from leaves and roots of Isatis indigotica Fort.. International Journal of Biological Macromolecules, 2022, 206, 642-652.	7.5	10
102	Ginsenosides and ginsenosidases in the pathobiology of ginseng- Cylindrocarpon destructans (Zinss) Scholten. Plant Physiology and Biochemistry, 2018, 123, 406-413.	5.8	9
103	Heterologous Expression of a Thermostable Î±-Glucosidase from Geobacillus sp. Strain HTA-462 by Escherichia coli and Its Potential Application for Isomaltoseâ€"Oligosaccharide Synthesis. Molecules, 2019, 24, 1413.	3.8	9
104	An efficient protocol for the preparation of linear arabino-oligosaccharides. Carbohydrate Research, 2020, 496, 108131.	2.3	9
105	Comparative study on the structures of intra- and extra-cellular polysaccharides from Penicillium oxalicum and their inhibitory effects on galectins. International Journal of Biological Macromolecules, 2021, 181, 793-800.	7.5	9
106	Ginsenoside Compound K Protects against Obesity through Pharmacological Targeting of Glucocorticoid Receptor to Activate Lipophagy and Lipid Metabolism. Pharmaceutics, 2022, 14, 1192.	4.5	9
107	Controlled methyl-esterification of pectin catalyzed by cation exchange resin. Carbohydrate Polymers, 2016, 137, 650-656.	10.2	8
108	Cloning, expression and biochemical characterization of a GH1 Î²-glucosidase from Cellulosimicrobium cellulans. Biocatalysis and Biotransformation, 2018, 36, 362-371.	2.0	8

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109	GLCE regulates PC12 cell neuritogenesis induced by nerve growth factor through activating SMAD/ID3 signalling. Biochemical Journal, 2014, 459, 405-415.	3.7	7
110	Purification and characterization of two novel Î²-glucosidases fromPenicillium oxalicumand their application in bioactive ginsenoside production. Biocatalysis and Biotransformation, 2014, 32, 199-207.	2.0	7
111	Topsy-turvy binding of negatively charged homogalacturonan oligosaccharides to galectin-3. Glycobiology, 2021, 31, 341-350.	2.5	7
112	Structural analysis and macrophage activation of aÂnovel Î²â€˜glucan isolated from Cantharellus cibarius. International Journal of Molecular Medicine, 2021, 47, .	4.0	7
113	Characterization of a recombinant multifunctional glycoside hydrolase family 3 Î²-xylosidase/Î±-l-arabinofuranosidase/Î²-glucosidase from Cellulosimicrobium cellulans sp. 21. Journal of Molecular Catalysis B: Enzymatic, 2016, 131, 65-72.	1.8	6
114	Quantitative analysis of dextran in rat plasma using Q-Orbitrap mass spectrometry based on all ion fragmentation strategy. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2018, 1095, 24-31.	2.3	6
115	Cellulose nanofibers electrospun from aqueous conditions. Cellulose, 2020, 27, 8695-8708.	4.9	6
116	Biochemical Characterization of Two Rhamnogalacturonan Lyases From Bacteroides ovatus ATCC 8483 With Preference for RG-I Substrates. Frontiers in Microbiology, 2021, 12, 799875.	3.5	6
117	Simple and efficient preparation of ginsenoside (S)-Rg2 from ginsenoside Re by biotransformation withCellulosimicrobiumsp. 21. Biocatalysis and Biotransformation, 2015, 33, 51-60.	2.0	4
118	High yield preparation of ganglioside GM1 using recombinant sialidase from Cellulosimicrobium cellulans. Process Biochemistry, 2017, 58, 92-97.	3.7	4
119	Cell-free enzymatic synthesis of GDP-l-fucose from mannose. AMB Express, 2019, 9, 74.	3.0	4
120	Citrus-derived DHCP inhibits mitochondrial complex II to enhance TRAIL sensitivity via ROS-induced DR5 upregulation. Journal of Biological Chemistry, 2021, 296, 100515.	3.4	4
121	Preparation of a Novel Glucuronomannan from Auricularia Auricala and its Immunological Activity. Natural Product Communications, 2012, 7, 1934578X1200701.	0.5	3
122	Efficient Biotransformation of Polysialogangliosides for Preparation of GM1 by Cellulosimicrobium sp. 21. Molecules, 2014, 19, 16001-16012.	3.8	3
123	A novel ginsenoside-hydrolyzing enzyme fromPenicillium oxalicumand its application in ginsenoside Rd production. Biocatalysis and Biotransformation, 2013, 31, 305-312.	2.0	2
124	Glycoside hydrolase family 2 exo-Î²-1,6-galactosidase LpGal2 from Lactobacillus plantarum: Cloning, expression, and enzymatic characterization. Process Biochemistry, 2021, 102, 269-274.	3.7	2
125	Simultaneous Determination of 25 Ginsenosides by UPLC-HRMS via Quantitative Analysis of Multicomponents by Single Marker. International Journal of Analytical Chemistry, 2021, 2021, 1-11.	1.0	2
126	Crystal structure of 8,9-O-isopropylidine-Neu5Ac-methylester-methylketoside, C16H27NO9. Zeitschrift Fur Kristallographie - New Crystal Structures, 2012, 227, 345-346.	0.3	0

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127	Crystal structure of 4,7-di-O-methyl 8,9-O-isopropylidine Neu5Ac methyl ester methyl ketoside, C18H31NO9. Zeitschrift Fur Kristallographie - New Crystal Structures, 2012, 227, 323-324.	0.3	0
128	Preparation of Ganglioside GM1 by Supercritical CO2 Extraction and Immobilized Sialidase. Molecules, 2019, 24, 3732.	3.8	0
129	Pathogenicity of mcr-1-positive Escherichia coli from human infections. Lancet Microbe, The, 2020, 1, e195.	7.3	0