

Jianfa Zhang

List of Publications by Year in descending order

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100
papers

67,869
citations

109137

35
h-index

35952

97
g-index

102
all docs

102
docs citations

102
times ranked

71517
citing authors

#	ARTICLE	IF	CITATIONS
1	Gapped BLAST and PSI-BLAST: a new generation of protein database search programs. <i>Nucleic Acids Research</i> , 1997, 25, 3389-3402.	6.5	64,420
2	Constant darkness is a circadian metabolic signal in mammals. <i>Nature</i> , 2006, 439, 340-343.	13.7	207
3	Investigation of Salecan/poly(vinyl alcohol) hydrogels prepared by freeze/thaw method. <i>Carbohydrate Polymers</i> , 2015, 118, 60-69.	5.1	172
4	Fabrication and Characterization of a Novel Anticancer Drug Delivery System: Salecan/Poly(methacrylic acid) Semi-interpenetrating Polymer Network Hydrogel. <i>ACS Biomaterials Science and Engineering</i> , 2015, 1, 1287-1299.	2.6	136
5	Synthesis and characterization of a multi-sensitive polysaccharide hydrogel for drug delivery. <i>Carbohydrate Polymers</i> , 2017, 177, 275-283.	5.1	125
6	Preparation and characterization of a novel pH-sensitive Salecan-g-poly(acrylic acid) hydrogel for controlled release of doxorubicin. <i>Journal of Materials Chemistry B</i> , 2015, 3, 2685-2697.	2.9	121
7	Polysaccharide-based cationic hydrogels for dye adsorption. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 170, 364-372.	2.5	113
8	Rheological properties of Salecan as a new source of thickening agent. <i>Food Hydrocolloids</i> , 2011, 25, 1719-1725.	5.6	103
9	A novel thermo-responsive hydrogel based on salecan and poly(N-isopropylacrylamide): Synthesis and characterization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 125, 1-11.	2.5	102
10	Redox/pH dual stimuli-responsive degradable Salecan-g-SS-poly(IA-co-HEMA) hydrogel for release of doxorubicin. <i>Carbohydrate Polymers</i> , 2017, 155, 242-251.	5.1	91
11	Synthesis and characterization of a novel hydrogel: salecan/polyacrylamide semi-IPN hydrogel with a desirable pore structure. <i>Journal of Materials Chemistry B</i> , 2014, 2, 3646.	2.9	83
12	The chemical and digestive properties of a soluble glucan from <i>Agrobacterium</i> sp. ZX09. <i>Carbohydrate Polymers</i> , 2010, 82, 623-628.	5.1	82
13	Synthesis and characterization of a novel semi-IPN hydrogel based on Salecan and poly(N,N-dimethylacrylamide-co-2-hydroxyethyl methacrylate). <i>Carbohydrate Polymers</i> , 2014, 105, 135-144.	5.1	78
14	Smart Macroporous Salecan/Poly(N,N-diethylacrylamide) Semi-IPN Hydrogel for Anti-Inflammatory Drug Delivery. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1386-1394.	2.6	70
15	Design of Salecan-containing semi-IPN hydrogel for amoxicillin delivery. <i>Materials Science and Engineering C</i> , 2017, 75, 487-494.	3.8	67
16	PER1 prevents excessive innate immune response during endotoxin-induced liver injury through regulation of macrophage recruitment in mice. <i>Cell Death and Disease</i> , 2016, 7, e2176-e2176.	2.7	57
17	Cationic Salecan-based hydrogels for release of 5-fluorouracil. <i>RSC Advances</i> , 2017, 7, 14337-14347.	1.7	56
18	Synthesis and characterization of a novel pH-thermo dual responsive hydrogel based on salecan and poly(N,N-diethylacrylamide-co-methacrylic acid). <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 1182-1192.	2.5	52

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19	Development of novel hydrogels based on Salecan and poly(N-isopropylacrylamide-co-methacrylic) Tj ETQq1 1 0.784314 rgBT/Overlo	1.7	52
20	β -glucan Salecan Improves Exercise Performance and Displays Anti-Fatigue Effects through Regulating Energy Metabolism and Oxidative Stress in Mice. <i>Nutrients</i> , 2018, 10, 858.	1.7	49
21	RIP1 kinase activity promotes steatohepatitis through mediating cell death and inflammation in macrophages. <i>Cell Death and Differentiation</i> , 2021, 28, 1418-1433.	5.0	48
22	A Role of Erythrocytes in Adenosine Monophosphate Initiation of Hypometabolism in Mammals. <i>Journal of Biological Chemistry</i> , 2010, 285, 20716-20723.	1.6	45
23	Results of a 90-day safety assessment study in mice fed a glucan produced by <i>Agrobacterium</i> sp. ZX09. <i>Food and Chemical Toxicology</i> , 2011, 49, 2377-2384.	1.8	45
24	Synthesis and characterization of a novel cationic hydrogel base on salecan-g-PMAPTAC. <i>International Journal of Biological Macromolecules</i> , 2017, 101, 474-480.	3.6	45
25	Bile acid metabolism and circadian rhythms. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 319, G549-G563.	1.6	45
26	Altered circadian rhythm of the clock genes in fibrotic livers induced by carbon tetrachloride. <i>FEBS Letters</i> , 2010, 584, 1597-1601.	1.3	44
27	Laxative effects of Salecan on normal and two models of experimental constipated mice. <i>BMC Gastroenterology</i> , 2013, 13, 52.	0.8	44
28	Salecan stabilizes the microstructure and improves the rheological performance of yogurt. <i>Food Hydrocolloids</i> , 2018, 81, 474-480.	5.6	44
29	A novel soluble β -1,3-d-glucan Salecan reduces adiposity and improves glucose tolerance in high-fat diet-fed mice. <i>British Journal of Nutrition</i> , 2013, 109, 254-262.	1.2	43
30	Loss of <i>mPer2</i> increases plasma insulin levels by enhanced glucose-stimulated insulin secretion and impaired insulin clearance in mice. <i>FEBS Letters</i> , 2012, 586, 1306-1311.	1.3	42
31	Peroxisome proliferator-activated receptor gamma (PPAR γ) activation and metabolism disturbance induced by bisphenol A and its replacement analog bisphenol S using in vitro macrophages and in vivo mouse models. <i>Environment International</i> , 2020, 134, 105328.	4.8	42
32	Clock gene <i>mPer2</i> functions in diurnal variation of acetaminophen induced hepatotoxicity in mice. <i>Experimental and Toxicologic Pathology</i> , 2011, 63, 581-585.	2.1	41
33	Polysaccharide metallohydrogel obtained from Salecan and trivalent chromium: Synthesis and characterization. <i>Carbohydrate Polymers</i> , 2018, 181, 285-291.	5.1	40
34	The Protective Role of <i>Per2</i> Against Carbon Tetrachloride-Induced Hepatotoxicity. <i>American Journal of Pathology</i> , 2009, 174, 63-70.	1.9	37
35	Deletion of clock gene <i>Per2</i> exacerbates cholestatic liver injury and fibrosis in mice. <i>Experimental and Toxicologic Pathology</i> , 2013, 65, 427-432.	2.1	37
36	Salecan diet increases short chain fatty acids and enriches beneficial microbiota in the mouse cecum. <i>Carbohydrate Polymers</i> , 2014, 102, 772-779.	5.1	37

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37	Bacterial exopolysaccharides: Chemical structures, gene clusters and genetic engineering. <i>International Journal of Biological Macromolecules</i> , 2021, 173, 481-490.	3.6	37
38	Characterization of an exopolysaccharide with distinct rheological properties from <i>Paenibacillus edaphicus</i> NUST16. <i>International Journal of Biological Macromolecules</i> , 2017, 105, 1-8.	3.6	34
39	Identification of K-ras as the major regulator for cytokine-dependent Akt activation in erythroid progenitors in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14605-14610.	3.3	33
40	Deletion of circadian gene <i>Per1</i> alleviates acute ethanol-induced hepatotoxicity in mice. <i>Toxicology</i> , 2013, 314, 193-201.	2.0	32
41	Adenosine 5'-monophosphate ameliorates D-galactosamine/lipopolysaccharide-induced liver injury through an adenosine receptor-independent mechanism in mice. <i>Cell Death and Disease</i> , 2014, 5, e985-e985.	2.7	32
42	A serum-free medium for colony growth and hyaluronic acid production by <i>Streptococcus zooepidemicus</i> NJUST01. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 168-172.	1.7	30
43	Fabrication of Salecan/poly(AMPS-co-HMAA) semi-IPN hydrogels for cell adhesion. <i>Carbohydrate Polymers</i> , 2017, 174, 171-181.	5.1	30
44	Loss of clock gene <i>Per2</i> promotes liver fibrosis induced by carbon tetrachloride. <i>Hepatology Research</i> , 2010, 40, 1117-1127.	1.8	29
45	Bacterial glucans: production, properties, and applications. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 9023-9036.	1.7	29
46	Selective determination of Ag ⁺ using Salecan derived nitrogen doped carbon dots as a fluorescent probe. <i>Materials Science and Engineering C</i> , 2017, 77, 508-512.	3.8	28
47	Supplementation of the diet with Salecan attenuates the symptoms of colitis induced by dextran sulphate sodium in mice. <i>British Journal of Nutrition</i> , 2014, 111, 1822-1829.	1.2	24
48	Development of photocrosslinked salecan composite hydrogel embedding titanium carbide nanoparticles as cell scaffold. <i>International Journal of Biological Macromolecules</i> , 2019, 123, 549-557.	3.6	23
49	The clock gene <i>Per2</i> is required for normal platelet formation and function. <i>Thrombosis Research</i> , 2011, 127, 122-130.	0.8	22
50	Protective effects of salecan against carbon tetrachloride-induced acute liver injury in mice. <i>Journal of Applied Toxicology</i> , 2012, 32, 796-803.	1.4	22
51	Recombinant production and characterization of full-length and truncated β -1,3-glucanase PglA from <i>Paenibacillus</i> sp. S09. <i>BMC Biotechnology</i> , 2013, 13, 105.	1.7	22
52	Loss of A1 Adenosine Receptor Attenuates Alpha-naphthylisothiocyanate-Induced Cholestatic Liver Injury in Mice. <i>Toxicological Sciences</i> , 2013, 131, 128-138.	1.4	22
53	<i>In vitro</i> and <i>in vivo</i> anti-inflammatory activity of a succinoglycan Riclin from <i>Agrobacterium</i> sp. ZCC3656. <i>Journal of Applied Microbiology</i> , 2019, 127, 1716-1726.	1.4	22
54	PER1 interaction with GPX1 regulates metabolic homeostasis under oxidative stress. <i>Redox Biology</i> , 2020, 37, 101694.	3.9	22

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55	A Novel Soluble Beta-Glucan Salecan Protects against Acute Alcohol-Induced Hepatotoxicity in Mice. <i>Bioscience, Biotechnology and Biochemistry</i> , 2011, 75, 1990-1993.	0.6	21
56	The plasma 5 α -AMP acts as a potential upstream regulator of hyperglycemia in type 2 diabetic mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2012, 302, E325-E333.	1.8	19
57	Mechanical and thermal reinforcement of photocrosslinked salean composite hydrogel incorporating niobium carbide nanoparticles for cell adhesion. <i>Polymer Testing</i> , 2018, 69, 396-404.	2.3	19
58	Anti-tumor activity and immunogenicity of a succinoglycan riclin. <i>Carbohydrate Polymers</i> , 2021, 255, 117370.	5.1	18
59	Endogenous A1 adenosine receptor protects mice from acute ethanol-induced hepatotoxicity. <i>Toxicology</i> , 2013, 309, 100-106.	2.0	16
60	Dual α pH/Magnetic α Field α Controlled Drug Delivery Systems Based on Fe ₃ O ₄ @SiO ₂ α Incorporated Salecan Graft Copolymer Composite Hydrogels. <i>ChemMedChem</i> , 2017, 12, 1600-1609.	1.6	16
61	In vitro and in vivo anti-Listeria effect of Succinoglycan Riclin through regulating MAPK/JIL-6 axis and metabolic profiling. <i>International Journal of Biological Macromolecules</i> , 2020, 150, 802-813.	3.6	16
62	The mPlrp2 and mClps genes are involved in the hydrolysis of retinyl esters in the mouse liver. <i>Journal of Lipid Research</i> , 2011, 52, 934-941.	2.0	15
63	Adenine nucleotide-mediated regulation of hepatic PTP1B activity in mouse models of type 2 diabetes. <i>Diabetologia</i> , 2019, 62, 2106-2117.	2.9	15
64	Oral Administration of Succinoglycan Riclin Improves Diet-Induced Hypercholesterolemia in Mice. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 13307-13317.	2.4	15
65	Preparation and Gut Microbiota Modulatory Property of the Oligosaccharide Riclinoctaose. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 3667-3676.	2.4	15
66	Salecan protected against concanavalin A-induced acute liver injury by modulating T cell immune responses and NMR-based metabolic profiles. <i>Toxicology and Applied Pharmacology</i> , 2017, 317, 63-72.	1.3	14
67	Photopatterned salean composite hydrogel reinforced with α -Mo ₂ C nanoparticles for cell adhesion. <i>Carbohydrate Polymers</i> , 2018, 199, 119-128.	5.1	14
68	Recombinant expression and characterization of an acid-, alkali- and salt-tolerant α -1,3-1,4-glucanase from <i>Paenibacillus</i> sp. S09. <i>Biotechnology Letters</i> , 2014, 36, 797-803.	1.1	13
69	Identification of substituent groups and related genes involved in salean biosynthesis in <i>Agrobacterium</i> sp. ZX09. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 585-598.	1.7	13
70	The chemical properties and hygroscopic activity of the exopolysaccharide lubcan from <i>Paenibacillus</i> sp. ZX1905. <i>International Journal of Biological Macromolecules</i> , 2020, 164, 2641-2650.	3.6	13
71	Dietary salean reverts partially the metabolic gene expressions and NMR-based metabolomic profiles from high-fat-diet-induced obese rats. <i>Journal of Nutritional Biochemistry</i> , 2017, 47, 53-62.	1.9	12
72	Loss of the clock protein PER2 shortens the erythrocyte life span in mice. <i>Journal of Biological Chemistry</i> , 2017, 292, 12679-12690.	1.6	12

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73	Oligosaccharide elicitor prepared from Salecan triggers the defense responses of <i>Arabidopsis thaliana</i> Col0 against <i>Botrytis cinerea</i> infection. <i>World Journal of Microbiology and Biotechnology</i> , 2017, 33, 165.	1.7	12
74	Purification and characterization of a highly viscous polysaccharide produced by <i>Paenibacillus</i> strain. <i>European Polymer Journal</i> , 2018, 101, 314-323.	2.6	12
75	Riclin-Capped Silver Nanoparticles as an Antibacterial and Anti-Inflammatory Wound Dressing. <i>International Journal of Nanomedicine</i> , 0, Volume 17, 2629-2641.	3.3	12
76	Soluble beta-glucan salecan improves vaginal infection of <i>Candida albicans</i> in mice. <i>International Journal of Biological Macromolecules</i> , 2020, 148, 1053-1060.	3.6	11
77	Biosynthesis and prebiotic activity of a linear levan from a new <i>Paenibacillus</i> isolate. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 769-787.	1.7	11
78	Period1 mediates rhythmic metabolism of toxins by interacting with CYP2E1. <i>Cell Death and Disease</i> , 2021, 12, 76.	2.7	11
79	Orally administered salecan ameliorates methotrexate-induced intestinal mucositis in mice. <i>Cancer Chemotherapy and Pharmacology</i> , 2019, 84, 105-116.	1.1	9
80	Dietary Succinoglycan Riclin Improves Glycemia Control in Mice with Type 2 Diabetes. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 1819-1829.	2.4	9
81	An Intermediary Role of Adenine Nucleotides on Free Fatty Acids-Induced Hyperglycemia in Obese Mice. <i>Frontiers in Endocrinology</i> , 2019, 10, 497.	1.5	8
82	The succinoglycan riclin restores beta cell function through the regulation of macrophages on Th1 and Th2 differentiation in type 1 diabetic mice. <i>Food and Function</i> , 2021, 12, 11611-11624.	2.1	8
83	The structure and flocculation characteristics of a novel exopolysaccharide from a <i>Paenibacillus</i> isolate. <i>Carbohydrate Polymers</i> , 2022, 291, 119561.	5.1	8
84	Characterization of an alkali-stable xyloglucanase/mixed-linkage β -glucanase Pgl5A from <i>Paenibacillus</i> sp. S09. <i>International Journal of Biological Macromolecules</i> , 2019, 140, 1158-1166.	3.6	7
85	Succinoglycan Riclin reshaped the soil microbiota by accumulating plant probiotic species to improve the soil suppressiveness on <i>Fusarium</i> wilt of cucumber seedlings. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 1883-1892.	3.6	7
86	Salecan Enhances the Activities of β -1,3-Glucanase and Decreases the Biomass of Soil-Borne Fungi. <i>PLoS ONE</i> , 2015, 10, e0134799.	1.1	7
87	Reciprocal regulation of insulin and plasma 5α -AMP in glucose homeostasis in mice. <i>Journal of Endocrinology</i> , 2015, 224, 225-234.	1.2	6
88	Adenosine accumulation causes metabolic disorders in testes and associates with lower testosterone level in obese mice. <i>Molecular Reproduction and Development</i> , 2020, 87, 241-250.	1.0	6
89	Muscle satellite cells are impaired in type 2 diabetic mice by elevated extracellular adenosine. <i>Cell Reports</i> , 2022, 39, 110884.	2.9	6
90	Pancreatic lipase-related protein 2 is responsible for the increased hepatic retinyl ester hydrolase activity in vitamin A-deficient mice. <i>FEBS Journal</i> , 2019, 286, 4232-4244.	2.2	5

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91	An insulin-independent mechanism for transcriptional regulation of Foxo1 in type 2 diabetic mice. <i>Journal of Biological Chemistry</i> , 2021, 297, 100846.	1.6	5
92	Decreased T-cell mediated hepatic injury in concanavalin A-treated PLRP2-deficient mice. <i>International Immunopharmacology</i> , 2020, 85, 106604.	1.7	4
93	Transcriptomic and metabolomic profiling revealed the role of succinoglycan Riclin octaose in eliciting the defense response of <i>Solanum tuberosum</i> . <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 7439-7450.	1.7	4
94	Safety assessment of functional oligooctasaccharide riclinoctaose: A pilot study of genotoxicity, acute toxicity, and subchronic toxicity. <i>Journal of Food Science</i> , 2022, 87, 1306-1318.	1.5	4
95	Iron accumulation with age alters metabolic pattern and circadian clock gene expression through the reduction of AMP-modulated histone methylation. <i>Journal of Biological Chemistry</i> , 2022, 298, 101968.	1.6	4
96	Riclinoctaose Attenuates Renal Ischemia-Reperfusion Injury by the Regulation of Macrophage Polarization. <i>Frontiers in Pharmacology</i> , 2021, 12, 745425.	1.6	3
97	The carbohydrate elicitor Riclinoctaose facilitates defense and growth of potato roots by inducing changes in transcriptional and metabolic profiles. <i>Plant Science</i> , 2022, 322, 111349.	1.7	3
98	Type 2 diabetic mice enter a state of spontaneous hibernation-like suspended animation following accumulation of uric acid. <i>Journal of Biological Chemistry</i> , 2021, 297, 101166.	1.6	2
99	The suppression of pancreatic lipase-related protein 2 ameliorates experimental hepatic fibrosis in mice. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2022, 1867, 159102.	1.2	0
100	Effects of Exogenous ATP on Melanoma Growth and Tumor Metabolism in C57BL/6 Mice. <i>Comparative Medicine</i> , 2022, , .	0.4	0