Kao-shan Chen

List of Publications by Year
in descending order

54	1,279	331670 21	395702 33
papers	citations	h-index	g-index

54	54	54	1459
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A combination of selenium and polysaccharides: Promising therapeutic potential. Carbohydrate Polymers, 2019, 206, 163-173.	10.2	112
2	Burdock fructooligosaccharide induces fungal resistance in postharvest Kyoho grapes by activating the salicylic acid-dependent pathway and inhibiting browning. Food Chemistry, 2013, 138, 539-546.	8.2	60
3	Defense responses of harvested tomato fruit to burdock fructooligosaccharide, a novel potential elicitor. Postharvest Biology and Technology, 2009, 52, 110-116.	6.0	57
4	Macrophage immunomodulatory activity of extracellular polysaccharide (PEP) of Antarctic bacterium Pseudoaltermonas sp.S-5. International Immunopharmacology, 2012, 12, 611-617.	3.8	55
5	Structural characteristics and anticancer/antioxidant activities of a novel polysaccharide from Trichoderma kanganensis. Carbohydrate Polymers, 2019, 205, 63-71.	10.2	52
6	Exopolysaccharide from Trichoderma pseudokoningii induces macrophage activation. Carbohydrate Polymers, 2016, 149, 112-120.	10.2	50
7	Polysaccharides from Rhizopus nigricans mycelia induced apoptosis and G2/M arrest in BGC-823 cells. Carbohydrate Polymers, 2013, 97, 800-808.	10.2	48
8	Beneficial effects of extracellular polysaccharide from Rhizopus nigricans on the intestinal immunity of colorectal cancer mice. International Journal of Biological Macromolecules, 2018, 115, 718-726.	7.5	48
9	Immune-enhancing activity of extracellular polysaccharides isolated from Rhizopus nigricans. Carbohydrate Polymers, 2016, 148, 318-325.	10.2	43
10	Activation of RAW 264.7 cells by a polysaccharide isolated from Antarctic bacterium Pseudoaltermonas sp. S-5. Carbohydrate Polymers, 2015, 130, 97-103.	10.2	40
11	An exopolysaccharide from Trichoderma pseudokoningii and its apoptotic activity on human leukemia K562 cells. Carbohydrate Polymers, 2012, 89, 701-708.	10.2	39
12	Purification, partial characterization and antitumor effect of an exopolysaccharide from Rhizopus nigricans. International Journal of Biological Macromolecules, 2016, 82, 299-307.	7.5	37
13	The moss flavone synthase I positively regulates the tolerance of plants to drought stress and UV-B radiation. Plant Science, 2020, 298, 110591.	3.6	35
14	Age-Dependent Variations of Volatile Emissions and Inhibitory Activity Toward Botrytis cinerea and Fusarium oxysporum in Tomato Leaves Treated with Chitosan Oligosaccharide. Journal of Plant Biology, 2009, 52, 332-339.	2.1	33
15	Burdock fructooligosaccharide induces resistance to tobacco mosaic virus in tobacco seedlings. Physiological and Molecular Plant Pathology, 2009, 74, 34-40.	2.5	33
16	Exopolysaccharide from Trichoderma pseudokoningii induces the apoptosis of MCF-7 cells through an intrinsic mitochondrial pathway. Carbohydrate Polymers, 2016, 136, 1065-1073.	10.2	32
17	Transcriptional profiling and physiological analysis reveal the critical roles of ROS-scavenging system in the Antarctic moss Pohlia nutans under Ultraviolet-B radiation. Plant Physiology and Biochemistry, 2019, 134, 113-122.	5.8	32
18	Anti-tumor and immunomodulatory activities of an exopolysaccharide from Rhizopus nigricans on CT26 tumor-bearing mice. International Immunopharmacology, 2016, 36, 218-224.	3.8	29

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19	Exopolysaccharide of Antarctic bacterium Pseudoaltermonas sp. S-5 induces apoptosis in K562 cells. Carbohydrate Polymers, 2015, 121, 107-114.	10.2	28
20	Induction of Volatile Organic Compounds of Lycopersicon esculentum Mill. and Its Resistance to Botrytis cinerea Pers. by Burdock Oligosaccharide. Journal of Integrative Plant Biology, 2006, 48, 550-557.	8.5	27
21	The inhibitory effect of polysaccharide from Rhizopus nigricans on colitis-associated colorectal cancer. Biomedicine and Pharmacotherapy, 2019, 112, 108593.	5.6	27
22	Postharvest treatment with trans-2-hexenal induced resistance against Botrytis cinerea in tomato fruit. Australasian Plant Pathology, 2015, 44, 121-128.	1.0	22
23	Transcriptome profile analysis of resistance induced by burdock fructooligosaccharide in tobacco. Journal of Plant Physiology, 2012, 169, 1511-1519.	3.5	20
24	Polysaccharide produced by Bacillus subtilis using burdock oligofructose as carbon source. Carbohydrate Polymers, 2019, 206, 811-819.	10.2	20
25	Effects of Crop Development on the Emission of Volatiles in Leaves of Lycopersicon esculentum and Its Inhibitory Activity to Botrytis cinerea and Fusarium oxysporum. Journal of Integrative Plant Biology, 2008, 50, 84-91.	8.5	19
26	Mixed culture fermentation between Rhizopus nigricans and Trichoderma pseudokoningii to control cucumber Fusarium wilt. Crop Protection, 2019, 124, 104857.	2.1	19
27	Rhizopus nigricans polysaccharide activated macrophages and suppressed tumor growth in CT26 tumor-bearing mice. Carbohydrate Polymers, 2018, 198, 302-312.	10.2	18
28	A Novel Receptor-like Kinase (PnRLK-1) from the Antarctic Moss Pohlia nutans Enhances Salt and Oxidative Stress Tolerance. Plant Molecular Biology Reporter, 2015, 33, 1156-1170.	1.8	17
29	Anti-tumor activity of exopolysaccharide from Rhizopus nigricans Ehrenb on S180 tumor-bearing mice. Bioorganic and Medicinal Chemistry Letters, 2016, 26, 2098-2104.	2.2	17
30	The L-type lectin receptor-like kinase (PnLecRLK1) from the Antarctic moss Pohlia nutans enhances chilling-stress tolerance and abscisic acid sensitivity in Arabidopsis. Plant Growth Regulation, 2017, 81, 409-418.	3.4	17
31	Characterization and expression analysis of a mitochondrial heat-shock protein 70 gene from the Antarctic moss Pohlia nutans. Polar Biology, 2014, 37, 1145-1155.	1.2	16
32	Carbon Nanoparticles Inhibit Î‘-Glucosidase Activity and Induce a Hypoglycemic Effect in Diabetic Mice. Molecules, 2019, 24, 3257.	3.8	15
33	Metabonomic Variation of Exopolysaccharide from Rhizopus nigricans on AOM/DSS-Induced Colorectal Cancer in Mice . OncoTargets and Therapy, 2019, Volume 12, 10023-10033.	2.0	15
34	Pre-harvest treatment of kiwifruit trees with mixed culture fermentation broth of Trichoderma pseudokoningii and Rhizopus nigricans prolonged the shelf life and improved the quality of fruit. Postharvest Biology and Technology, 2020, 162, 111099.	6.0	15
35	Characterization and Expression Analysis of a Glutathione Reductase Gene from Antarctic Moss Pohlia nutans. Plant Molecular Biology Reporter, 2013, 31, 1068-1076.	1.8	13
36	Preparation and characterization of sulfated inulin-type fructans from Jerusalem artichoke tubers and their antitumor activity. Carbohydrate Research, 2021, 509, 108422.	2.3	13

#	Article	IF	Citations
37	Immunomodulatory activity of a fructooligosaccharide isolated from burdock roots. RSC Advances, 2019, 9, 11092-11100.	3.6	12
38	Burdock fructooligosaccharide induces stomatal closure in Pisum sativum. Carbohydrate Polymers, 2013, 97, 731-735.	10.2	11
39	Polysaccharide from Rhizopus nigricans inhibits the invasion and metastasis of colorectal cancer. Biomedicine and Pharmacotherapy, 2018, 103, 738-745.	5.6	11
40	Structure and Anti-Tumor Activities of Exopolysaccharides from Alternaria mali Roberts. Molecules, 2019, 24, 1345.	3.8	10
41	Effects of mixed culture fermentation of Bacillus amyloliquefaciens and Trichoderma longibrachiatum on its constituent strains and the biocontrol of tomato Fusarium wilt. Journal of Applied Microbiology, 2022, 132, 532-546.	3.1	10
42	Exopolysaccharide from Trichoderma pseudokoningii promotes maturation of murine dendritic cells. International Journal of Biological Macromolecules, 2016, 92, 1155-1161.	7.5	8
43	Exopolysaccharides isolated from Rhizopus nigricans induced colon cancer cell apoptosis in vitro and in vivo via activating the AMPK pathway. Bioscience Reports, 2020, 40, .	2.4	8
44	Burdock Fructooligosaccharide Attenuates High Glucose-Induced Apoptosis and Oxidative Stress Injury in Renal Tubular Epithelial Cells. Frontiers in Pharmacology, 2021, 12, 784187.	3.5	8
45	Signaling pathways associated with macrophage-activating polysaccharide isolated from the fermentation liquor of Rhizopus nigricans. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127297.	2.2	6
46	The flavonoid 3â€²â€hydroxylase gene from the Antarctic moss Pohlia nutans is involved in regulating oxidative and salt stress tolerance. Biotechnology and Applied Biochemistry, 2022, 69, 676-686.	3.1	6
47	Separation, Purification, Structural Characterization, and Anticancer Activity of a Novel Exopolysaccharide from Mucor sp.. Molecules, 2022, 27, 2071.	3.8	5
48	Fructooligosaccharides: Effects, Mechanisms, and Applications. , 2016, , 51-63.		4
49	Enhanced antitumor activity of inulin-capped Se nanoparticles synthesized using Jerusalem artichoke tubers. Glycoconjugate Journal, 2021, 38, 599-607.	2.7	3
50	Inducement of Salicylic Acid in Cucumber Cotyledons by Neodymium and Lanthanum. Journal of Rare Earths, 2007, 25, 502-507.	4.8	2
51	Synthesis of Acetylation burdock fructooligosaccharide (BFO). IOP Conference Series: Earth and Environmental Science, 2018, 108, 042085.	0.3	1
52	The anti-gastritis activity of an exopolysaccharide from Rhizopus nigricans. Food Bioscience, 2019, 29, 135-141.	4.4	1
53	Synthesis of Sulfonated burdock fructooligosaccharide (BFO). IOP Conference Series: Materials Science and Engineering, 2017, 274, 012112.	0.6	0
54	Structural and Biophysical Investigation of the Key Hotspots on the Surface of Epsteinâ€“Barr Nuclear Antigen 1 Essential for DNA Recognition and Pathogenesis. Frontiers in Molecular Biosciences, 2021, 8, 664436.	3.5	0