

Wenyuan Gao

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103
papers

2,363
citations

27
h-index

44
g-index

110
ext. papers

2,867
ext. citations

4.6
avg, IF

5
L-index

#	Paper	IF	Citations
103	Chemical study and medical application of saponins as anti-cancer agents. <i>Phytotherapy Research</i> , 2010 , 81, 703-14	3.2	265
102	Jasmonic acid improves ginsenoside accumulation in adventitious root culture of Panax ginseng C.A. Meyer. <i>Biochemical Engineering Journal</i> , 2002 , 11, 211-215	4.2	161
101	Chemical composition and antioxidant and anti-inflammatory potential of peels and flesh from 10 different pear varieties (Pyrus spp.). <i>Food Chemistry</i> , 2014 , 152, 531-8	8.5	115
100	The genus Polygonatum: A review of ethnopharmacology, phytochemistry and pharmacology. <i>Journal of Ethnopharmacology</i> , 2018 , 214, 274-291	5	92
99	Anticancer drugs from traditional toxic Chinese medicines. <i>Phytotherapy Research</i> , 2012 , 26, 1449-65	6.7	84
98	Antitumor and antimetastatic activities of Rhizoma Paridis saponins. <i>Steroids</i> , 2009 , 74, 1051-6	2.8	74
97	Protective effect of tetrahydropalmatine against d-galactose induced memory impairment in rat. <i>Physiology and Behavior</i> , 2016 , 154, 114-25	3.5	70
96	Anti-diabetic activity in type 2 diabetic mice and α -glucosidase inhibitory, antioxidant and anti-inflammatory potential of chemically profiled pear peel and pulp extracts (Pyrus spp.). <i>Journal of Functional Foods</i> , 2015 , 13, 276-288	5.1	63
95	Characterization of steroidal saponins in saponin extract from Paris polyphylla by liquid chromatography tandem multi-stage mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2009 , 395, 495-505	4.4	61
94	The effect of different extraction techniques on property and bioactivity of polysaccharides from Dioscorea hemsleyi. <i>International Journal of Biological Macromolecules</i> , 2017 , 102, 847-856	7.9	56
93	Purification, characterization and immunomodulatory activity of fructans from Polygonatum odoratum and P. cyrtoneura. <i>Carbohydrate Polymers</i> , 2019 , 214, 44-52	10.3	51
92	Qualitative and quantitative determination of major saponins in Paris and Trillium by HPLC-ELSD and HPLC-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010 , 878, 2943-8	3.2	51
91	Physicochemical properties and in vitro digestion of starches from different Dioscorea plants. <i>Food Hydrocolloids</i> , 2013 , 32, 432-439	10.6	43
90	Effects of drying processes on starch-related physicochemical properties, bioactive components and antioxidant properties of yam flours. <i>Food Chemistry</i> , 2017 , 224, 224-232	8.5	42
89	Preparation, physicochemical characterization and biological activities of two modified starches from yam (Dioscorea Opposita Thunb.). <i>Food Hydrocolloids</i> , 2016 , 55, 244-253	10.6	40
88	Chemosensitizing effect of Paris Saponin I on Camptothecin and 10-hydroxycamptothecin in lung cancer cells via p38 MAPK, ERK, and Akt signaling pathways. <i>European Journal of Medicinal Chemistry</i> , 2017 , 125, 760-769	6.8	37
87	Active compounds, antioxidant activity and α -glucosidase inhibitory activity of different varieties of Chaenomeles fruits. <i>Food Chemistry</i> , 2018 , 248, 330-339	8.5	36

86	Effects of nitrogen source and phosphate concentration on biomass and metabolites accumulation in adventitious root culture of <i>Glycyrrhiza uralensis</i> Fisch. <i>Acta Physiologiae Plantarum</i> , 2014 , 36, 915-921 ^{2.6}	34
85	Cluster analysis of ginseng tissue cultures, dynamic change of growth, total saponins, specific oxygen uptake rate in bioreactor and immuno-regulative effect of ginseng adventitious root. <i>Industrial Crops and Products</i> , 2013 , 41, 57-63	5.9 33
84	Effect of blanching and drying temperatures on starch-related physicochemical properties, bioactive components and antioxidant activities of yam flours. <i>LWT - Food Science and Technology</i> , 2017 , 82, 303-310	5.4 32
83	Physicochemical characterizations of polysaccharides from <i>Angelica Sinensis</i> Radix under different drying methods for various applications. <i>International Journal of Biological Macromolecules</i> , 2019 , 121, 381-389	7.9 32
82	Fungal elicitors enhance ginsenosides biosynthesis, expression of functional genes as well as signal molecules accumulation in adventitious roots of <i>Panax ginseng</i> C. A. Mey. <i>Journal of Biotechnology</i> , 2016 , 239, 106-114	3.7 31
81	Effect of methyl jasmonate on the ginsenoside content of <i>Panax ginseng</i> adventitious root cultures and on the genes involved in triterpene biosynthesis. <i>Research on Chemical Intermediates</i> , 2013 , 39, 1973-1980 ^{2.8}	3.1 ³¹
80	Formosanin C-inhibited pulmonary metastasis through repression of matrix metalloproteinases on mouse lung adenocarcinoma. <i>Cancer Biology and Therapy</i> , 2011 , 11, 592-8	4.6 31
79	Induction and characterization of adventitious roots directly from the explants of <i>Panax notoginseng</i> . <i>Biotechnology Letters</i> , 2005 , 27, 1771-5	3 29
78	Comparative study on hemostatic, cytotoxic and hemolytic activities of different species of <i>Paris</i> L. <i>Journal of Ethnopharmacology</i> , 2012 , 142, 789-94	5 28
77	Chemical Composition and Bioactivities of Two Common <i>Chaenomeles</i> Fruits in China: <i>Chaenomeles speciosa</i> and <i>Chaenomeles sinensis</i> . <i>Journal of Food Science</i> , 2016 , 81, H2049-58	3.4 27
76	Comparative susceptibilities to alkali-treatment of A-, B- and C-type starches of <i>Dioscorea zingiberensis</i> , <i>Dioscorea persimilis</i> and <i>Dioscorea opposita</i> . <i>Food Hydrocolloids</i> , 2014 , 39, 286-294	10.6 27
75	Transcriptome profiling shows gene regulation patterns in ginsenoside pathway in response to methyl jasmonate in <i>Panax Quinquefolium</i> adventitious root. <i>Scientific Reports</i> , 2016 , 6, 37263	4.9 26
74	Characterisation and saccharide mapping of polysaccharides from four common <i>Polygonatum</i> spp. <i>Carbohydrate Polymers</i> , 2020 , 233, 115836	10.3 25
73	Pharmacological evaluation of sedative-hypnotic activity and gastro-intestinal toxicity of <i>Rhizoma Paridis</i> saponins. <i>Journal of Ethnopharmacology</i> , 2012 , 144, 67-72	5 25
72	Influence of sucrose concentration and phosphate source on biomass and metabolite accumulation in adventitious roots of <i>Pseudostellaria heterophylla</i> . <i>Acta Physiologiae Plantarum</i> , 2013 , 35, 1579-1585 ^{2.6}	25
71	Role of effective composition on antioxidant, anti-inflammatory, sedative-hypnotic capacities of 6 common edible <i>Lilium</i> varieties. <i>Journal of Food Science</i> , 2015 , 80, H857-68	3.4 24
70	Identification of triterpenoids and flavonoids, step-wise aeration treatment as well as antioxidant capacity of <i>Glycyrrhiza uralensis</i> Fisch. cell. <i>Industrial Crops and Products</i> , 2013 , 49, 675-681	5.9 21
69	A synergistic antitumor effect of polyphyllin I and formosanin C on hepatocarcinoma cells. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 4970-4975	2.9 20

68	Inhibition of matrix metalloproteinases related to metastasis by diosgenyl and pennogenyl saponins. <i>Journal of Ethnopharmacology</i> , 2011 , 137, 1221-7	5	20
67	The protective effects of Aquilariae Lignum Resinatum extract on 5-Fuorouracil-induced intestinal mucositis in mice. <i>Phytomedicine</i> , 2019 , 54, 308-317	6.5	18
66	Optimization and quality assessment of adventitious roots culture in Panax quinquefolium L.. <i>Acta Physiologiae Plantarum</i> , 2014 , 36, 713-719	2.6	17
65	Inhibition of lung cancer in diethylnitrosamine-induced mice by Rhizoma paridis saponins. <i>Molecular Carcinogenesis</i> , 2017 , 56, 1405-1413	5	16
64	Aspergillus niger Enhance Bioactive Compounds Biosynthesis As Well As Expression of Functional Genes in Adventitious Roots of Glycyrrhiza uralensis Fisch. <i>Applied Biochemistry and Biotechnology</i> , 2016 , 178, 576-93	3.2	16
63	Chemical analysis and anti-inflammatory comparison of the cell culture of Glycyrrhiza with its field cultivated variety. <i>Food Chemistry</i> , 2013 , 136, 513-7	8.5	16
62	Paris Saponin II induced apoptosis via activation of autophagy in human lung cancer cells. <i>Chemico-Biological Interactions</i> , 2016 , 253, 125-33	5	16
61	Establishment and quality assessment of tissue cultures in Glycyrrhiza uralensis Fisch. <i>Applied Biochemistry and Biotechnology</i> , 2013 , 169, 588-94	3.2	15
60	Identification of chemical constituents in Rhizoma Paridis Saponins and their oral administration in rat plasma by UPLC/Q-TOF/MS. <i>Biomedical Chromatography</i> , 2011 , 25, 712-9	1.7	15
59	Study on the effects of different drying methods on physicochemical properties, structure, and in vitro digestibility of Fritillaria thunbergii Miq. (Zhebeimu) flours. <i>Food and Bioproducts Processing</i> , 2016 , 98, 266-274	4.9	14
58	The synergistic anticancer effect of formosanin C and polyphyllin VII based on caspase-mediated cleavage of Beclin1 inhibiting autophagy and promoting apoptosis. <i>Cell Proliferation</i> , 2019 , 52, e12520	7.9	14
57	Dioscin-6'-O-acetate inhibits lung cancer cell proliferation via inducing cell cycle arrest and caspase-dependent apoptosis. <i>Phytomedicine</i> , 2019 , 53, 124-133	6.5	13
56	Complex formation, physicochemical properties of different concentration of palmitic acid yam (Dioscorea pposita Thunb.) starch preparation mixtures. <i>LWT - Food Science and Technology</i> , 2019 , 101, 130-137	5.4	13
55	Jasmonic acid and methyl dihydrojasmonate enhance saponin biosynthesis as well as expression of functional genes in adventitious roots of Panax notoginseng F.H. Chen. <i>Biotechnology and Applied Biochemistry</i> , 2017 , 64, 225-238	2.8	12
54	Protective effect of magnolol on oxaliplatin-induced intestinal injury in mice. <i>Phytotherapy Research</i> , 2019 , 33, 1161-1172	6.7	12
53	Comparative studies on characterization, saccharide mapping and antiglycation activity of polysaccharides from different Polygonatum ssp. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020 , 186, 113243	3.5	12
52	Advances in ginsenoside biosynthesis and metabolic regulation. <i>Biotechnology and Applied Biochemistry</i> , 2018 , 65, 514-522	2.8	12
51	Influence of the drying method on the bioactive compounds and pharmacological activities of rhubarb. <i>Journal of the Science of Food and Agriculture</i> , 2018 , 98, 3551-3562	4.3	12

50	Synergistic effects of Rhizoma Paridis and Rhizoma Curcuma longa on different animal tumor models. <i>Environmental Toxicology and Pharmacology</i> , 2014 , 38, 31-40	5.8	12
49	Metabolic regulatory network alterations reveal different therapeutic effects of cisplatin and Rhizoma paridis saponins in Lewis pulmonary adenoma mice. <i>RSC Advances</i> , 2016 , 6, 115029-115038	3.7	11
48	Assessment of genetic fidelity and composition: Mixed elicitors enhance triterpenoid and flavonoid biosynthesis of Glycyrrhiza uralensis Fisch. tissue cultures. <i>Biotechnology and Applied Biochemistry</i> , 2017 , 64, 211-217	2.8	10
47	Effect of stir-frying time during Angelica Sinensis Radix processing with wine on physicochemical, structure properties and bioactivities of polysaccharides. <i>Process Biochemistry</i> , 2019 , 81, 188-196	4.8	10
46	HPLC-ESI-MS(n) Analysis, Fed-Batch Cultivation Enhances Bioactive Compound Biosynthesis and Immune-Regulative Effect of Adventitious Roots in Pseudostellaria heterophylla. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 177, 63-75	3.2	10
45	A WRKY transcription factor, PgWRKY4X, positively regulates ginsenoside biosynthesis by activating squalene epoxidase transcription in Panax ginseng. <i>Industrial Crops and Products</i> , 2020 , 154, 112671	5.9	10
44	Inhibition of urethane-induced lung carcinogenesis in mice by a Rhizoma paridis saponin involved EGFR/PI3K/Akt pathway. <i>RSC Advances</i> , 2016 , 6, 92330-92334	3.7	10
43	Effect of different solvents on the chemical composition, antioxidant activity and alpha-glucosidase inhibitory activity of hawthorn extracts. <i>International Journal of Food Science and Technology</i> , 2016 , 51, 1244-1251	3.8	10
42	Cerebralcare Granule(), a Chinese Herb Compound Preparation, Attenuates D-Galactose Induced Memory Impairment in Mice. <i>Neurochemical Research</i> , 2016 , 41, 2199-214	4.6	9
41	Novel phenanthrene and isocoumarin from the rhizomes of Dioscorea nipponica Makino subsp. rosthornii (Prain et Burkill) C. T. Ting (Dioscoreaceae). <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 3595-3601	2.9	8
40	Protective effect and potential mechanisms of Wei-Chang-An pill on high-dose 5-fluorouracil-induced intestinal mucositis in mice. <i>Journal of Ethnopharmacology</i> , 2016 , 190, 200-11	5	8
39	A new acetylated spirostanol saponin and other constituents from the rhizomes of Dioscorea althaeoides R. Knuth (Dioscoreaceae). <i>Biochemical Systematics and Ecology</i> , 2016 , 65, 17-22	1.4	8
38	Bidirectional effects of methanol extract of Wei-Chang-An pill on gastrointestinal transit and the spasmolytic activity on isolated rat jejunum. <i>Journal of Ethnopharmacology</i> , 2014 , 155, 203-12	5	8
37	Gene expression of glycyrrhizin acid and accumulation of endogenous signaling molecule in Glycyrrhiza uralensis Fisch adventitious roots after Saccharomyces cerevisiae and Meyerozyma guilliermondii applications. <i>Biotechnology and Applied Biochemistry</i> , 2017 , 64, 700-711	2.8	8
36	Paris saponin II-induced paraptosis-associated cell death increased the sensitivity of cisplatin. <i>Toxicology and Applied Pharmacology</i> , 2020 , 406, 115206	4.6	8
35	Effects of temperature during processing with wine on chemical composition, antioxidant capacity and enzyme inhibition activities of Angelica Sinensis Radix. <i>International Journal of Food Science and Technology</i> , 2017 , 52, 1324-1332	3.8	7
34	Screening and evaluation of adventitious root lines of Panax notoginseng by morphology, gene expression, and metabolite profiles. <i>Applied Microbiology and Biotechnology</i> , 2019 , 103, 4405-4415	5.7	7
33	Paris saponin I inhibits proliferation and promotes apoptosis through down-regulating AKT activity in human non-small-cell lung cancer cells and inhibiting ERK expression in human small-cell lung cancer cells. <i>RSC Advances</i> , 2016 , 6, 70816-70824	3.7	7

32	Reparative activity of costunolide and dehydrocostus in a mouse model of 5-fluorouracil-induced intestinal mucositis. <i>RSC Advances</i> , 2016 , 6, 5249-5258	3.7	7
31	Production of saponions and polysaccharide in the presence of lactoalbumin hydrolysate in <i>Panax quinquefolium</i> L. cells cultures. <i>Plant Growth Regulation</i> , 2011 , 63, 217-223	3.2	7
30	Quality evaluation of <i>Panax ginseng</i> adventitious roots based on ginsenoside constituents, functional genes, and ferric-reducing antioxidant power. <i>Journal of Food Biochemistry</i> , 2019 , 43, e12901	3.3	6
29	Quantitative studies of rhubarb using quantitative analysis of multicomponents by single marker and response surface methodology. <i>Journal of Separation Science</i> , 2017 , 40, 3792-3800	3.4	6
28	Gradually scale-up culture in a bioreactor promotes radical scavenging activity of <i>Panax ginseng</i> (C. A. Meyer) adventitious roots on 1,1-diphenyl-2-picrylhydrazyl. <i>Plant Growth Regulation</i> , 2012 , 67, 101-105	3.2	6
27	Promotion of ginsenosides production in a co-cultivation system of <i>Panax ginseng</i> adventitious roots and immobilized <i>Aspergillus niger</i> . <i>Industrial Crops and Products</i> , 2019 , 140, 111564	5.9	5
26	Chemotaxonomic studies of 12 <i>Dioscorea</i> species from China by UHPLC-QTOF-MS/MS analysis. <i>Phytochemical Analysis</i> , 2020 , 31, 164-182	3.4	5
25	Optimization of balloon-type bubble bioreactor angle and methyl jasmonate concentration to enhance metabolite production in adventitious roots of <i>Pseudostellaria heterophylla</i> . <i>Research on Chemical Intermediates</i> , 2015 , 41, 5555-5563	2.8	4
24	Protein elicitor isolated from <i>Escherichia coli</i> induced bioactive compound biosynthesis as well as gene expression in <i>Glycyrrhiza uralensis</i> Fisch adventitious roots. <i>RSC Advances</i> , 2016 , 6, 111622-111631	3.7	4
23	Effect of temperature on morphology, ginsenosides biosynthesis, functional genes, and transcriptional factors expression in <i>Panax ginseng</i> adventitious roots. <i>Journal of Food Biochemistry</i> , 2019 , 43, e12794	3.3	4
22	Endophytes, biotransforming microorganisms, and engineering microbial factories for triterpenoid saponins production. <i>Critical Reviews in Biotechnology</i> , 2021 , 41, 249-272	9.4	4
21	Physicochemical characterisation, digestibility and anticonstipation activity of some high-resistant untraditional starches from zingiberaceae plants. <i>International Journal of Food Science and Technology</i> , 2017 , 52, 617-625	3.8	3
20	Influence of step-wise aeration treatment on biomass and bioactive compounds of <i>Panax ginseng</i> adventitious root in balloon-type bubble bioreactor. <i>Research on Chemical Intermediates</i> , 2015 , 41, 623-629	2.8	3
19	Inhibitor discovery from pomegranate rind for targeting human salivary α -amylase. <i>Medicinal Chemistry Research</i> , 2018 , 27, 1559-1577	2.2	3
18	Integrated morphology analysis, metabolomic analysis and gene expression to assess the quality of four adventitious roots lines of <i>Glycyrrhiza uralensis</i> Fisch. <i>Plant Cell, Tissue and Organ Culture</i> , 2018 , 135, 169-177	2.7	3
17	Oleanolic acid and ursolic acid as potential inhibitors of human salivary α -amylase: insights from in vitro assays and in silico simulations. <i>Journal of Molecular Modeling</i> , 2017 , 23, 248	2	3
16	Dioscin-6-O-acetate impairs migration of lung cancer cells through attenuations of MMP-2 and MMP-9 via NF- κ B suppression. <i>Medicinal Chemistry Research</i> , 2019 , 28, 1-12	2.2	3
15	Comparison of characterization and antioxidant activity of different citrus peel pectins.. <i>Food Chemistry</i> , 2022 , 386, 132683	8.5	3

14	Induction of signal molecules and expression of functional genes after <i>Pichia pastoris</i> stimulation in <i>Glycyrrhiza uralensis</i> Fisch adventitious roots. <i>Journal of Food Biochemistry</i> , 2019 , 43, e12798	3.3	2
13	Multicomponent quantitative analysis combined with antioxidant and alpha-glucosidase inhibitory activities for the quality evaluation of <i>Gastrodia elata</i> from different regions. <i>Biomedical Chromatography</i> , 2019 , 33, e4508	1.7	2
12	Effects of <i>Rhizoma Parisdis</i> total saponins and its main compounds on gastric emptying via regulating muscarinic receptors in vitro and in vivo. <i>RSC Advances</i> , 2017 , 7, 41163-41175	3.7	2
11	Molecular evidence supports simultaneous association of the achlorophyllous orchid <i>Chamaegastrodia inverta</i> with ectomycorrhizal Ceratobasidiaceae and Russulaceae. <i>BMC Microbiology</i> , 2020 , 20, 236	4.5	2
10	Cerebralcare Granule \square enhances memantine hydrochloride efficacy in APP/PS1 mice by ameliorating amyloid pathology and cognitive functions. <i>Chinese Medicine</i> , 2021 , 16, 47	4.7	2
9	Chemometric analysis of active compounds and antioxidant and \square glucosidase inhibitory activities for the quality evaluation of licorice from different origins. <i>Biomedical Chromatography</i> , 2021 , 35, e5215	1.7	2
8	Microbiome-based screening and co-fermentation of rhizospheric microorganisms for highly ginsenoside Rg3 production. <i>Microbiological Research</i> , 2022 , 127054	5.3	2
7	Effects of Metal Nanoparticles and Other Preparative Materials in the Environment on Plants: From the Perspective of Improving Secondary Metabolites.. <i>Journal of Agricultural and Food Chemistry</i> , 2022 ,	5.7	1
6	Pharmacokinetics profiles of polyphyllin II and polyphyllin VII in rats by liquid chromatography with tandem mass spectrometry. <i>Biomedical Chromatography</i> , 2021 , 35, e5083	1.7	1
5	Label-Free Proteomic Analysis of Smoke-Drying and Shade-Drying Processes of Postharvest Rhubarb: A Comparative Study. <i>Frontiers in Plant Science</i> , 2021 , 12, 663180	6.2	0
4	Quality evaluation of different varieties of rhubarb based on multicomponent and bioactivity: Committed to quality control in the production of rhubarb decoction pieces.. <i>Biomedical Chromatography</i> , 2022 , e5368	1.7	0
3	Physicochemical characteristics and immunoregulatory activities of polysaccharides from five cultivars of <i>Chrysanthemi Flos</i> .. <i>Food Science and Nutrition</i> , 2022 , 10, 1391-1400	3.2	0
2	Use of partial least-squares discriminant analysis to study the effects of gradual scale-up of culture, and optimization of bioreactor angle and aeration volume on culture of <i>Panax quinquefolium</i> L. adventitious roots in a 5-L balloon-type bubble bioreactor. <i>Research on Chemical Intermediates</i> , 2015 , 41, 6707-6720	2.8	
1	Combining network pharmacology with chromatographic fingerprinting and multi-component quantitative analysis for the quality evaluation of <i>Astragali Radix</i> .. <i>Biomedical Chromatography</i> , 2022 , e5319	1.7	