

Gang Cao

List of Publications by Year in descending order

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94
papers

3,510
citations

201674

27
h-index

161849

54
g-index

100
all docs

100
docs citations

100
times ranked

3743
citing authors

#	ARTICLE	IF	CITATIONS
1	Targeting Sirtuin1 to treat aging-related tissue fibrosis: From prevention to therapy. , 2022, 229, 107983.		35
2	1â€Hydroxypyrene mediates renal fibrosis through aryl hydrocarbon receptor signalling pathway. British Journal of Pharmacology, 2022, 179, 103-124.	5.4	28
3	Paeoniflorin ameliorates airway inflammation and immune response in ovalbumin induced asthmatic mice: From oxidative stress to autophagy. Phytomedicine, 2022, 96, 153835.	5.3	13
4	Prediction of the potential mechanism of compound gingerol against liver cancer based on network pharmacology and experimental verification. Journal of Pharmacy and Pharmacology, 2022, 74, 869-886.	2.4	2
5	Toxicity of Tetradium ruticarpum: Subacute Toxicity Assessment and Metabolomic Identification of Relevant Biomarkers. Frontiers in Pharmacology, 2022, 13, 803855.	3.5	0
6	Screening of Bioactive Fraction of Radix Paeoniae Alba and Enhancing Anti-Allergic Asthma by Stir-Frying Through Regulating PI3K/AKT Signaling Pathway. Frontiers in Pharmacology, 2022, 13, 863403.	3.5	6
7	A Reasonable Evaluation of Chuanxiong Rhizoma Processing with Wine through Comparative Pharmacokinetic Study of Bioactive Components: Dominant Effect on Middle Cerebral Artery Occlusion Model Rats. Journal of Analytical Methods in Chemistry, 2022, 2022, 1-11.	1.6	2
8	Intrarenal 1-methoxypyrene, an aryl hydrocarbon receptor agonist, mediates progressive tubulointerstitial fibrosis in mice. Acta Pharmacologica Sinica, 2022, 43, 2929-2945.	6.1	23
9	Optimizing Processing Technology of Cornus officinalis: Based on Anti-Fibrotic Activity. Frontiers in Nutrition, 2022, 9, 807071.	3.7	4
10	Change in the active component of processed Tetradium ruticarpum extracts leads to improvement in efficacy and toxicity attenuation. Journal of Ethnopharmacology, 2021, 264, 113292.	4.1	9
11	Peroxisome proliferator-activated receptors in the pathogenesis and therapies of liver fibrosis. , 2021, 222, 107791.		37
12	Evaluating the Therapeutic Mechanisms of Selected Active Compounds in Cornus Officinalis and Paeonia Lactiflora in Rheumatoid Arthritis via Network Pharmacology Analysis. Frontiers in Pharmacology, 2021, 12, 648037.	3.5	7
13	Combined Cornus Officinalis and Paeonia Lactiflora Pall Therapy Alleviates Rheumatoid Arthritis by Regulating Synovial Apoptosis via AMPK-Mediated Mitochondrial Fission. Frontiers in Pharmacology, 2021, 12, 639009.	3.5	8
14	Acute and subacute toxicity evaluation of <sc><i>Houttuynia cordata</i></sc> ethanol extract and plasma metabolic profiling analysis in both male and female rats. Journal of Applied Toxicology, 2021, 41, 2068-2082.	2.8	11
15	Identification and validation of 12 immuneâ€related genes as a prognostic signature for colon adenocarcinoma. Journal of Biochemical and Molecular Toxicology, 2021, 35, e22852.	3.0	1
16	Traditional application and modern pharmacological research of Eucommia ulmoides Oliv.. Chinese Medicine, 2021, 16, 73.	4.0	48
17	Metabolomics Reveals the Mechanisms for the Pulmonary Toxicity of Siegesbeckia orientalis L. and the Toxicity-Reducing Effect of Processing. Frontiers in Pharmacology, 2021, 12, 630319.	3.5	2
18	Gut microbiota disorder caused by diterpenoids extracted from <i>Euphorbia pekinensis</i> aggravates intestinal mucosal damage. Pharmacology Research and Perspectives, 2021, 9, e00765.	2.4	18

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19	Two immune-enhanced molecular subtypes differ in inflammation, immune checkpoints, mutations, and prognostic outcome in stage II colonic carcinoma. <i>Journal of Biochemical and Molecular Toxicology</i> , 2021, 35, e22703.	3.0	1
20	Comparative Study on Pharmacokinetics of Four Active Compounds in Rat Plasma after Oral Administration of Raw and Wine Processed Chuanxiong Rhizoma. <i>Molecules</i> , 2020, 25, 93.	3.8	12
21	The Phytochemistry, Pharmacology, and Quality Control of <i>Tetrastigma hemsleyanum</i> Diels & Gilg in China: A Review. <i>Frontiers in Pharmacology</i> , 2020, 11, 550497.	3.5	26
22	Determination of Differentiating Markers in Coicis Semen From Multi-Sources Based on Structural Similarity Classification Coupled With UPCC-Xevo G2-XS QTOF. <i>Frontiers in Pharmacology</i> , 2020, 11, 549181.	3.5	6
23	Nephrotoxicity of Herbal Medicine and Its Prevention. <i>Frontiers in Pharmacology</i> , 2020, 11, 569551.	3.5	24
24	Transfer of metastatic traits via miR-200c in extracellular vesicles derived from colorectal cancer stem cells is inhibited by atractylenolide I. <i>Clinical and Translational Medicine</i> , 2020, 10, e139.	4.0	14
25	Processing and Polyherbal Formulation of <i>Tetradium ruticarpum</i> (A. Juss.) Hartley: Phytochemistry, Pharmacokinetics, and Toxicity. <i>Frontiers in Pharmacology</i> , 2020, 11, 133.	3.5	24
26	Identification of endogenous β -aminopyrene as a novel mediator of progressive chronic kidney disease via aryl hydrocarbon receptor activation. <i>British Journal of Pharmacology</i> , 2020, 177, 3415-3435.	5.4	50
27	TGF β /Smad and Wnt/ β -catenin signaling pathways are involved in renal fibrosis and its therapies. <i>Clinical and Translational Medicine</i> , 2020, 10, e127.	4.0	2
28	Atractylenolide I inhibits colorectal cancer cell proliferation by affecting metabolism and stemness via AKT/mTOR signaling. <i>Phytomedicine</i> , 2020, 68, 153191.	5.3	33
29	Tanshinone and salvianolic acid biosynthesis are regulated by SmMYB98 in <i>Salvia miltiorrhiza</i> hairy roots. <i>Journal of Advanced Research</i> , 2020, 23, 1-12.	9.5	118
30	Wnt signaling pathway in aging-related tissue fibrosis and therapies. <i>Ageing Research Reviews</i> , 2020, 60, 101063.	10.9	100
31	Danshensu, a novel indoleamine 2,3-dioxygenase1 inhibitor, exerts anti-hepatic fibrosis effects via inhibition of JAK2-STAT3 signaling. <i>Phytomedicine</i> , 2019, 63, 153055.	5.3	31
32	Total glucosides of peony improve ovalbumin-induced allergic asthma by inhibiting mast cell degranulation. <i>Journal of Ethnopharmacology</i> , 2019, 244, 112136.	4.1	16
33	Combined melatonin and poricoic acid A inhibits renal fibrosis through modulating the interaction of Smad3 and β -catenin pathway in AKI-to-CKD continuum. <i>Therapeutic Advances in Chronic Disease</i> , 2019, 10, 204062231986911.	2.5	38
34	Inhibition of MALAT1 reduces tumor growth and metastasis and promotes drug sensitivity in colorectal cancer. <i>Cellular Signalling</i> , 2019, 57, 21-28.	3.6	46
35	Microbiome metabolomics reveals gut microbiota associated with glycine-conjugated metabolites and polyamine metabolism in chronic kidney disease. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 4961-4978.	5.4	146
36	Long noncoding RNA MALAT1 mediates stem cell-like properties in human colorectal cancer cells by regulating miR-20b/5p/Oct4 axis. <i>Journal of Cellular Physiology</i> , 2019, 234, 20816-20828.	4.1	65

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37	Investigation on Spectrum-Effect Correlation between Constituents Absorbed into Blood and Bioactivities of Baizhu Shaoyao San before and after Processing on Ulcerative Colitis Rats by UHPLC/Q-TOF-MS/MS Coupled with Gray Correlation Analysis. <i>Molecules</i> , 2019, 24, 940.	3.8	34
38	The Matrix Metalloproteinase-13 Inhibitor Poricoic Acid ZI Ameliorates Renal Fibrosis by Mitigating Epithelial-Mesenchymal Transition. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1900132.	3.3	33
39	Identification of serum metabolites associating with chronic kidney disease progression and anti-fibrotic effect of 5-methoxytryptophan. <i>Nature Communications</i> , 2019, 10, 1476.	12.8	171
40	From Nanofibers to Nanorods: Nanostructure of Peptide-Drug Conjugates Regulated by Polypeptide-PEG Derivative and Enhanced Antitumor Effect. <i>Advanced Functional Materials</i> , 2019, 29, 1806058.	14.9	20
41	Total Glycosides of Peony Protects Against Inflammatory Bowel Disease by Regulating IL-23/IL-17 Axis and Th17/Treg Balance. <i>The American Journal of Chinese Medicine</i> , 2019, 47, 177-201.	3.8	22
42	Metabolomics study of the therapeutic mechanism of a Chinese herbal formula on collagen-induced arthritis mice. <i>RSC Advances</i> , 2019, 9, 3716-3725.	3.6	3
43	Profiling and analysis of multiple constituents in Baizhu Shaoyao San before and after processing by stir-frying using UHPLC/Q-TOF-MS/MS coupled with multivariate statistical analysis. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1083, 110-123.	2.3	55
44	Novel inhibitors of the cellular renin-angiotensin system components, poricoic acids, target Smad3 phosphorylation and Wnt/ β -catenin pathway against renal fibrosis. <i>British Journal of Pharmacology</i> , 2018, 175, 2689-2708.	5.4	154
45	Novel RAS Inhibitors Poricoic Acid ZG and Poricoic Acid ZH Attenuate Renal Fibrosis via a Wnt/ β -Catenin Pathway and Targeted Phosphorylation of smad3 Signaling. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 1828-1842.	5.2	115
46	Natural Products as a Source for Antifibrosis Therapy. <i>Trends in Pharmacological Sciences</i> , 2018, 39, 937-952.	8.7	162
47	Natural products for the prevention and treatment of kidney disease. <i>Phytomedicine</i> , 2018, 50, 50-60.	5.3	92
48	Discrimination of volatiles in herbal formula Baizhu Shaoyao San before and after processing using needle trap device with multivariate data analysis. <i>Royal Society Open Science</i> , 2018, 5, 171987.	2.4	4
49	New insights into TGF- β 2/Smad signaling in tissue fibrosis. <i>Chemico-Biological Interactions</i> , 2018, 292, 76-83.	4.0	671
50	Study on spectrum-effect correlation for screening the effective components in Fangji Huangqi Tang basing on ultra-high performance liquid chromatography-mass spectrometry. <i>Phytomedicine</i> , 2018, 47, 81-92.	5.3	24
51	Integration of Metabolomics and Transcriptomics Reveals the Therapeutic Mechanism Underlying Paeoniflorin for the Treatment of Allergic Asthma. <i>Frontiers in Pharmacology</i> , 2018, 9, 1531.	3.5	29
52	Qualitative analysis of a sulfur-fumigated Chinese herbal medicine by comprehensive two-dimensional gas chromatography and high-resolution time of flight mass spectrometry using colorized fuzzy difference data processing. <i>Chinese Journal of Integrative Medicine</i> , 2017, 23, 261-269.	1.6	8
53	Gene and protein expressions and metabolomics exhibit activated redox signaling and wnt/ β -catenin pathway are associated with metabolite dysfunction in patients with chronic kidney disease. <i>Redox Biology</i> , 2017, 12, 505-521.	9.0	146
54	A study on the anti-tumor mechanism of total flavonoids from Radix <i>Tetragymna</i> against additional cell line based on COX-2-mediated Wnt/ β -catenin signaling pathway. <i>Oncotarget</i> , 2017, 8, 54304-54319.	1.8	10

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55	An herbal formula attenuates collagen-induced arthritis via inhibition of JAK2-STAT3 signaling and regulation of Th17 cells in mice. <i>Oncotarget</i> , 2017, 8, 44242-44254.	1.8	25
56	The Inhibition of Mast Cell Activation of Radix Paeoniae alba Extraction Identified by TCRP Based and Conventional Cell Function Assay Systems. <i>PLoS ONE</i> , 2016, 11, e0155930.	2.5	8
57	Profiling and analysis of multiple compounds in rhubarb decoction after processing by wine steaming using UHPLC-QTOF-MS coupled with multiple statistical strategies. <i>Journal of Separation Science</i> , 2016, 39, 3081-3090.	2.5	44
58	Metabolomics insights into activated redox signaling and lipid metabolism dysfunction in chronic kidney disease progression. <i>Redox Biology</i> , 2016, 10, 168-178.	9.0	148
59	Flavonoids from Radix Tetrastigmae improve LPS-induced acute lung injury via the TLR4/MD-2-mediated pathway. <i>Molecular Medicine Reports</i> , 2016, 14, 1733-1741.	2.4	6
60	Flavonoids from Radix Tetrastigmae inhibit TLR4/MD-2 mediated JNK and NF- κ B pathway with anti-inflammatory properties. <i>Cytokine</i> , 2016, 84, 29-36.	3.2	34
61	Direct differentiation of herbal medicine for volatile components by a multicapillary column with ion mobility spectrometry method. <i>Journal of Separation Science</i> , 2015, 38, 3205-3208.	2.5	15
62	Tetramethylpyrazine Inhibits Activation of Hepatic Stellate Cells through Hedgehog Signaling Pathways In Vitro. <i>BioMed Research International</i> , 2015, 2015, 1-5.	1.9	9
63	Influence of processing procedure on the quality of Radix Scrophulariae: A quantitative evaluation of the main compounds obtained by accelerated solvent extraction and high-performance liquid chromatography. <i>Journal of Separation Science</i> , 2015, 38, 390-394.	2.5	9
64	Rapid identification and comparative analysis of chemical constituents in herbal medicine Fufang decoction by ultra-high-pressure liquid chromatography coupled with a hybrid linear ion trap-high-resolution mass spectrometry. <i>Biomedical Chromatography</i> , 2015, 29, 698-708.	1.7	7
65	Coupling needle-trap devices with comprehensive two-dimensional gas chromatography with high-resolution time-of-flight mass spectrometry to rapidly reveal the chemical transformation of volatile components from sulfur-fumigated ginseng. <i>Journal of Separation Science</i> , 2015, 38, 1248-1253.	2.5	9
66	Ultra-high-performance liquid chromatography-quadrupole/time of flight mass spectrometry combined with statistical analysis for rapidly revealing the influence of sulfur-fumigated Paeoniae Radix Alba on the chemical constituents of Si Wu Tang. <i>Analytical Methods</i> , 2015, 7, 9442-9451.	2.7	10
67	Simultaneous Determination of 10 Active Components in Baizhu Shaoyao San and Its Single Herbs by High-Performance Liquid Chromatography Coupled with Diode Array Detection. <i>Journal of Chromatographic Science</i> , 2015, 53, 633-640.	1.4	7
68	Quantitative Analysis Coupled with Toxic Evaluation to Investigate the Influence of Sulfur-Fumigation on the Quality of <i>Chrysanthemum morifolium</i> . <i>Natural Product Communications</i> , 2014, 9, 1934578X1400900.	0.5	1
69	Rapid Determination of the Main Compounds in Crude and Processed <i>Atractylodes macrocephala</i> Using Fourier Transform Infrared Spectroscopy with Attenuated Total Reflectance. <i>Analytical Letters</i> , 2014, 47, 616-626.	1.8	4
70	Static headspace-multicapillary column with gas chromatography coupled to ion mobility spectrometry as a simple approach for the discrimination of crude and processed traditional Chinese medicines. <i>Journal of Separation Science</i> , 2014, 37, 3090-3093.	2.5	10
71	Comparison of pharmacokinetic behavior of two iridoid glycosides in rat plasma after oral administration of crude <i>Cornus officinalis</i> and its jiuhipin by high performance liquid chromatography triple quadrupole mass spectrometry combined with multiple reactions monitoring mode. <i>Pharmacognosy Magazine</i> , 2014, 10, 115.	0.6	6
72	Hepatoprotective Effect of Superfine Particles of Herbal Medicine against CCl ₄ -Induced Acute Liver Damage in Rats. <i>BioMed Research International</i> , 2014, 2014, 1-6.	1.9	15

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73	Investigation of the Chemical Changes from Crude and Processed <i>Paeoniae Radix Alba</i> - <i>Atractylodis Macrocephalae Rhizoma</i> Herbal Pair Extracts by Using Q Exactive High-Performance Benchtop Quadrupole-Orbitrap LC-MS/MS. <i>Evidence-based Complementary and Alternative Medicine</i> , 2014, 2014, 1-14.	1.2	21
74	Chemical analysis of raw and processed <i>Fructus arctii</i> by high-performance liquid chromatography/diode array detection-electrospray ionization-mass spectrometry. <i>Pharmacognosy Magazine</i> , 2014, 10, 541.	0.6	16
75	Fast analysis of principal volatile compounds in crude and processed <i>Atractylodes macrocephala</i> by an automated static headspace gas chromatography-mass spectrometry. <i>Pharmacognosy Magazine</i> , 2014, 10, 249.	0.6	11
76	Chemical differentiation of volatile compounds in crude and processed <i>Atractylodis Macrocephalae Rhizoma</i> by using comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry combined with multivariate data analysis. <i>Journal of Separation Science</i> , 2014, 37, 1194-1198.	2.5	12
77	Multi-component analysis in sun-dried and sulfur-fumigated <i>Angelicae Sinensis Radix</i> by single marker quantitation and chemometric discrimination. <i>Pharmacognosy Magazine</i> , 2014, 10, 189.	0.6	8
78	Rapid and undamaged analysis of crude and processed <i>Radix Scrophulariae</i> by Fourier transform infrared spectroscopy coupled with soft independent modeling of class analogy. <i>Pharmacognosy Magazine</i> , 2014, 10, 265.	0.6	4
79	Analysis of the influence of sulfur-fumigation on the volatile components of <i>Angelicae sinensis Radix</i> by comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry. <i>Pharmacognosy Magazine</i> , 2014, 10, 304.	0.6	4
80	Element analysis and characteristic identification of non-fumigated and sulfur-fumigated <i>Fritillaria thunbergii</i> Miq. using microwave digestion-inductively coupled plasma atomic emission spectrometry combined with Fourier transform infrared spectrometry. <i>Pharmacognosy Magazine</i> , 2014, 10, 30.	0.6	16
81	Capture and identification of the volatile components in crude and processed herbal medicines through on-line purge and trap technique coupled with GC-MS-TOF MS. <i>Natural Product Research</i> , 2014, 28, 1607-1612.	1.8	9
82	A purge and trap technique to capture volatile compounds combined with comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry to investigate the effect of sulfur-fumigation on <i>Radix Angelicae Dahuricae</i> . <i>Biomedical Chromatography</i> , 2014, 28, 1167-1172.	1.7	10
83	Chondroprotective activity of a detoxicated traditional Chinese medicine (<i>Fuzi</i>) of <i>Aconitum carmichaeli</i> Debx against severe-stage osteoarthritis model induced by mono-iodoacetate. <i>Journal of Ethnopharmacology</i> , 2014, 151, 740-744.	4.1	30
84	Effect of 5-hydroxymethylfurfural derived from processed <i>Cornus officinalis</i> on the prevention of high glucose-induced oxidative stress in human umbilical vein endothelial cells and its mechanism. <i>Food Chemistry</i> , 2013, 140, 273-279.	8.2	52
85	Investigation of the Effect of Rice Wine on the Metabolites of the Main Components of Herbal Medicine in Rat Urine by Ultrahigh-Performance Liquid Chromatography-Quadrupole/Time-of-Flight Mass Spectrometry: A Case Study on <i>Cornus officinalis</i> . <i>Evidence-based Complementary and Alternative Medicine</i> , 2013, 2013, 1-10.	1.2	3
86	Exploring Potential Chemical Transformation by Chemical Profiling Approach for Rapidly Evaluating Chemical Consistency between Sun-Dried and Sulfur-Fumigated <i>Radix Paeoniae Alba</i> Using Ultraperformance Liquid Chromatography Coupled with Time-of-Flight Mass Spectrometry. <i>Evidence-based Complementary and Alternative Medicine</i> , 2013, 2013, 1-9.	1.2	3
87	Screening and identification of potential active components in crude <i>Fructus Corni</i> using solid-phase extraction and LC-LTQ-linear ion trap mass spectrometry. <i>Pharmaceutical Biology</i> , 2012, 50, 278-283.	2.9	16
88	Global detection and analysis of volatile components from sun-dried and sulfur-fumigated herbal medicine by comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry. <i>Analyst, The</i> , 2012, 137, 3828.	3.5	34
89	Pharmacokinetic parameters of morrisonide in iridoid glycosides of <i>Fructus corni</i> processing based on back-propagation neural network. <i>Pharmaceutical Biology</i> , 2011, 49, 989-993.	2.9	11
90	Analysis of fresh <i>Mentha haplocalyx</i> volatile components by comprehensive two-dimensional gas chromatography and high-resolution time-of-flight mass spectrometry. <i>Analyst, The</i> , 2011, 136, 4653.	3.5	36

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91	A Rapid and Sensitive Assay for Determining the Main Components in Processed Fructus Corni by UPLC-Q-TOF-MS. <i>Chromatographia</i> , 2011, 73, 135-141.	1.3	23
92	Global detection and identification of components from crude and processed traditional Chinese medicine by liquid chromatography connected with hybrid ion trap and time-of-flight mass spectrometry. <i>Journal of Separation Science</i> , 2011, 34, 1845-1852.	2.5	17
93	Identification of metabolites of crude and processed Fructus Corni in rats by microdialysis sampling coupled with electrospray ionization linear quadrupole ion trap mass spectrometry. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2011, 56, 118-125.	2.8	34
94	Application of Microdialysis for Pharmacokinetics of Traditional Chinese Medicine Studies. <i>Analytical Letters</i> , 2009, 43, 55-72.	1.8	3