

Gang Cao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/864563/publications.pdf>

Version: 2024-02-01

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	New insights into TGF- β ² /Smad signaling in tissue fibrosis. <i>Chemico-Biological Interactions</i> , 2018, 292, 76-83.	4.0	671
2	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
3	Natural Products as a Source for Antifibrosis Therapy. <i>Trends in Pharmacological Sciences</i> , 2018, 39, 937-952.	8.7	162
4	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
5	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
6	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
7	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
8	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
9	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
10	Wnt signaling pathway in aging-related tissue fibrosis and therapies. <i>Ageing Research Reviews</i> , 2020, 60, 101063.	10.9	100
11	Natural products for the prevention and treatment of kidney disease. <i>Phytomedicine</i> , 2018, 50, 50-60.	5.3	92
12	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
13	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
14	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
15	Identification of endogenous 1-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
16	Traditional application and modern pharmacological research of <i>Eucommia ulmoides</i> Oliv.. <i>Chinese Medicine</i> , 2021, 16, 73.	4.0	48
17	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
18	Profiling and analysis of multiple compounds in rhubarb decoction after processing by wine steaming using UHPLC-Q-TOF-MS coupled with multiple statistical strategies. <i>Journal of Separation Science</i> , 2016, 39, 3081-3090.	2.5	44

#	ARTICLE	IF	CITATIONS
19	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
20	Peroxisome proliferator-activated receptors in the pathogenesis and therapies of liver fibrosis. , 2021, 222, 107791.		37
21	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
22	Targeting Sirtuin1 to treat aging-related tissue fibrosis: From prevention to therapy. , 2022, 229, 107983.		35
23	Identification of metabolites of crude and processed <i>Fructus Corni</i> 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
24	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
25	Flavonoids from <i>Radix Tetrastigmae</i> 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
26	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
27	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
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	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
30	Chondroprotective activity of a detoxicated traditional Chinese medicine (Fuzi) 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
31	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
32	1-Hydroxypyrene mediates renal fibrosis through aryl hydrocarbon receptor signalling pathway. <i>British Journal of Pharmacology</i> , 2022, 179, 103-124.	5.4	28
33	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
34	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
35	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
36	Nephrotoxicity of Herbal Medicine and Its Prevention. <i>Frontiers in Pharmacology</i> , 2020, 11, 569551.	3.5	24

#	ARTICLE	IF	CITATIONS
37	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
38	A Rapid and Sensitive Assay for Determining the Main Components in Processed <i>Fructus Corni</i> by UPLC-Q-TOF-MS. <i>Chromatographia</i> , 2011, 73, 135-141.	1.3	23
39	Intrarenal 1-methoxypyrene, an aryl hydrocarbon receptor agonist, mediates progressive tubulointerstitial fibrosis in mice. <i>Acta Pharmacologica Sinica</i> , 2022, 43, 2929-2945.	6.1	23
40	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
41	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
42	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
43	Gut microbiota disorder caused by diterpenoids extracted from <i>Euphorbia pekinensis</i> aggravates intestinal mucosal damage. <i>Pharmacology Research and Perspectives</i> , 2021, 9, e00765.	2.4	18
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	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
52	<i>Paeoniflorin</i> ameliorates airway inflammation and immune response in ovalbumin induced asthmatic mice: From oxidative stress to autophagy. <i>Phytomedicine</i> , 2022, 96, 153835.	5.3	13
53	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
54	Comparative Study on Pharmacokinetics of Four Active Compounds in Rat Plasma after Oral Administration of Raw and Wine Processed <i>Chuanxiong Rhizoma</i> . <i>Molecules</i> , 2020, 25, 93.	3.8	12

#	ARTICLE	IF	CITATIONS
55	Pharmacokinetic parameters of morroniside 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
56	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
57	Acute and subacute toxicity evaluation of <i>Houttuynia cordata</i> ethanol extract and plasma metabolic profiling analysis in both male and female rats. <i>Journal of Applied Toxicology</i> , 2021, 41, 2068-2082.	2.8	11
58	Static headspace-multipillar 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
59	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
60	Ultra-high-performance liquid chromatography-quadrupole/time of flight mass spectrometry combined with statistical analysis for rapidly revealing the influence of sulfur-fumigated <i>Paeoniae Radix Alba</i> on the chemical constituents of <i>Si Wu Tang</i> . <i>Analytical Methods</i> , 2015, 7, 9442-9451.	2.7	10
61	A study on the anti-tumor mechanism of total flavonoids from <i>Radix Tetrastigmae</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
62	Capture and identification of the volatile components in crude and processed herbal medicines through on-line purge and trap technique coupled with GC-MS. <i>Natural Product Research</i> , 2014, 28, 1607-1612.	1.8	9
63	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
64	Influence of processing procedure on the quality of <i>Radix Scrophulariae</i> : 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
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 <i>ginseng</i> . <i>Journal of Separation Science</i> , 2015, 38, 1248-1253.	2.5	9
66	Change in the active component of processed <i>Tetradium ruticarpum</i> extracts leads to improvement in efficacy and toxicity attenuation. <i>Journal of Ethnopharmacology</i> , 2021, 264, 113292.	4.1	9
67	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
68	The Inhibition of Mast Cell Activation of <i>Radix Paeoniae alba</i> Extraction Identified by TCRP Based and Conventional Cell Function Assay Systems. <i>PLoS ONE</i> , 2016, 11, e0155930.	2.5	8
69	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
70	Combined <i>Cornus Officinalis</i> and <i>Paeonia Lactiflora</i> Pall Therapy Alleviates Rheumatoid Arthritis by Regulating Synovial Apoptosis via AMPK-Mediated Mitochondrial Fission. <i>Frontiers in Pharmacology</i> , 2021, 12, 639009.	3.5	8
71	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
72	Simultaneous Determination of 10 Active Components in <i>Baizhu Shaoyao San</i> 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

#	ARTICLE	IF	CITATIONS
73	Evaluating the Therapeutic Mechanisms of Selected Active Compounds in Cornus Officinalis and Paeonia Lactiflora in Rheumatoid Arthritis via Network Pharmacology Analysis. <i>Frontiers in Pharmacology</i> , 2021, 12, 648037.	3.5	7
74	Comparison of pharmacokinetic behavior of two iridoid glycosides in rat plasma after oral administration of crude Cornus officinalis 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
75	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
76	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
77	Screening of Bioactive Fraction of Radix Paeoniae Alba and Enhancing Anti-Allergic Asthma by Stir-Frying Through Regulating PI3K/AKT Signaling Pathway. <i>Frontiers in Pharmacology</i> , 2022, 13, 863403.	3.5	6
78	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
79	Rapid and undamaged analysis of crude and processed Radix <i>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
80	Analysis of the influence of sulfur-fumigation on the volatile components of <i>Angelicae sinensis</i> Radix by comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry. <i>Pharmacognosy Magazine</i> , 2014, 10, 304.	0.6	4
81	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
82	Optimizing Processing Technology of Cornus officinalis: Based on Anti-Fibrotic Activity. <i>Frontiers in Nutrition</i> , 2022, 9, 807071.	3.7	4
83	Application of Microdialysis for Pharmacokinetics of Traditional Chinese Medicine Studies. <i>Analytical Letters</i> , 2009, 43, 55-72.	1.8	3
84	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
85	Exploring Potential Chemical Transformation by Chemical Profiling Approach for Rapidly Evaluating Chemical Consistency between Sun-Dried and Sulfur-Fumigated Radix <i>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
86	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
87	TGF β 2/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
88	Metabolomics Reveals the Mechanisms for the Pulmonary Toxicity of <i>Siegesbeckia orientalis</i> L. and the Toxicity-Reducing Effect of Processing. <i>Frontiers in Pharmacology</i> , 2021, 12, 630319.	3.5	2
89	Prediction of the potential mechanism of compound gingerol against liver cancer based on network pharmacology and experimental verification. <i>Journal of Pharmacy and Pharmacology</i> , 2022, 74, 869-886.	2.4	2
90	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. <i>Journal of Analytical Methods in Chemistry</i> , 2022, 2022, 1-11.	1.6	2

#	ARTICLE	IF	CITATIONS
91	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
92	Identification and validation of 12 immune-related genes as a prognostic signature for colon adenocarcinoma. <i>Journal of Biochemical and Molecular Toxicology</i> , 2021, 35, e22852.	3.0	1
93	Two immune-enhanced molecular subtypes differ in inflammation, immune checkpoints, mutations, and prognostic outcome in stage I-II colonic carcinoma. <i>Journal of Biochemical and Molecular Toxicology</i> , 2021, 35, e22703.	3.0	1
94	Toxicity of <i>Tetradium ruticarpum</i> : Subacute Toxicity Assessment and Metabolomic Identification of Relevant Biomarkers. <i>Frontiers in Pharmacology</i> , 2022, 13, 803855.	3.5	0