

# Zhenyu Cai

## List of Publications by Year in descending order

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58

papers

3,579

citations

257450

24

h-index

144013

57

g-index

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all docs

58

docs citations

58

times ranked

4467

citing authors

#	ARTICLE	IF	CITATIONS
1	Plasma membrane translocation of trimerized MLKL protein is required for TNF-induced necroptosis. <i>Nature Cell Biology</i> , 2014, 16, 55-65.	10.3	1,022
2	Mixed lineage kinase domain-like is a key receptor interacting protein 3 downstream component of TNF-induced necrosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 5322-5327.	7.1	728
3	Suppression of the SLC7A11/glutathione axis causes synthetic lethality in KRAS-mutant lung adenocarcinoma. <i>Journal of Clinical Investigation</i> , 2020, 130, 1752-1766.	8.2	200
4	Necroptosis of tumor cells leads to tumor necrosis and promotes tumor metastasis. <i>Cell Research</i> , 2018, 28, 868-870.	12.0	121
5	Identifying potential anti-COVID-19 pharmacological components of traditional Chinese medicine Lianhuaqingwen capsule based on human exposure and ACE2 biochromatography screening. <i>Acta Pharmaceutica Sinica B</i> , 2021, 11, 222-236.	12.0	112
6	Stem Cell Factor SOX2 Confers Ferroptosis Resistance in Lung Cancer via Upregulation of SLC7A11. <i>Cancer Research</i> , 2021, 81, 5217-5229.	0.9	99
7	Comparative Normal/Failing Rat Myocardium Cell Membrane Chromatographic Analysis System for Screening Specific Components That Counteract Doxorubicin-Induced Heart Failure from <i>Acontium carmichaeli</i> . <i>Analytical Chemistry</i> , 2014, 86, 4748-4757.	6.5	87
8	The role of necroptosis in cancer: A double-edged sword?. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2019, 1871, 259-266.	7.4	86
9	Comprehensive two-dimensional HepG2/cell membrane chromatography/monolithic column/time-of-flight mass spectrometry system for screening anti-tumor components from herbal medicines. <i>Journal of Chromatography A</i> , 2012, 1242, 67-74.	3.7	85
10	ZBP1 not RIPK1 mediates tumor necroptosis in breast cancer. <i>Nature Communications</i> , 2021, 12, 2666.	12.8	74
11	Targeting actin-bundling protein L-plastin as an anabolic therapy for bone loss. <i>Science Advances</i> , 2020, 6, .	10.3	59
12	Development of APTES-Decorated HepG2 Cancer Stem Cell Membrane Chromatography for Screening Active Components from <i>Salvia miltiorrhiza</i> . <i>Analytical Chemistry</i> , 2016, 88, 12081-12089.	6.5	56
13	Dynamic metabolic and transcriptomic profiling of methyl jasmonate-treated hairy roots reveals synthetic characters and regulators of lignan biosynthesis in <i>Isatis indigotica</i> Fort. <i>Plant Biotechnology Journal</i> , 2016, 14, 2217-2227.	8.3	51
14	Identification of multiple components in <i>Guanxinling</i> injection using hydrophilic interaction liquid chromatography/time-of-flight mass spectrometry and reversed-phase liquid chromatography/time-of-flight mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 1661-1674.	1.5	46
15	Neobavaisoflavone inhibits osteoclastogenesis through blocking RANKL signalling-mediated TRAF6 and Src recruitment and NF- $\kappa$ B, MAPK and Akt pathways. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 9067-9084.	3.6	45
16	Identification of the Raf kinase inhibitor TAK-632 and its analogues as potent inhibitors of necroptosis by targeting RIPK1 and RIPK3. <i>British Journal of Pharmacology</i> , 2019, 176, 2095-2108.	5.4	41
17	<i>N</i> -(7-Cyano-6-(4-fluoro-3-(2-(3-(trifluoromethyl)phenyl)acetamido)phenoxy)benzo[d]thiazol-2-yl)cyclopropanecarboxamide (TAK-632) Analogues as Novel Necroptosis Inhibitors by Targeting Receptor-Interacting Protein Kinase 3 (RIPK3): Synthesis, Structure-Activity Relationships, and in Vivo Efficacy. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 6665-6681.	6.4	39
18	Quality improvements of cell membrane chromatographic column. <i>Journal of Chromatography A</i> , 2014, 1359, 330-335.	3.7	38

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19	On-line comprehensive two-dimensional HepG2 cell membrane chromatographic analysis system for charactering anti-hepatoma components from rat serum after oral administration of Radix scutellariae : A strategy for rapid screening active compounds in vivo. Journal of Pharmaceutical and Biomedical Analysis, 2016, 118, 27-33.	2.8	37
20	Cardiovascular Disease Chemogenomics Knowledgebase-guided Target Identification and Drug Synergy Mechanism Study of an Herbal Formula. Scientific Reports, 2016, 6, 33963.	3.3	32
21	Execution of RIPK3-regulated necrosis. Molecular and Cellular Oncology, 2014, 1, e960759.	0.7	30
22	Biosensor-Based Active Ingredients Recognition System for Screening STAT3 Ligands from Medical Herbs. Analytical Chemistry, 2018, 90, 8936-8945.	6.5	29
23	Metabolomic study of the protective effect of Gandi capsule for diabetic nephropathy. Chemico-Biological Interactions, 2019, 314, 108815.	4.0	28
24	Development of 3-mercaptopropyltrimethoxysilane (MPTS)-modified bone marrow mononuclear cell membrane chromatography for screening anti-osteoporosis components from Scutellariae Radix. Acta Pharmaceutica Sinica B, 2020, 10, 1856-1865.	12.0	27
25	BCL6 confers KRAS-mutant non-“small-cell lung cancer resistance to BET inhibitors. Journal of Clinical Investigation, 2021, 131, .	8.2	27
26	Morus alba leaves ethanol extract protects pancreatic islet cells against dysfunction and death by inducing autophagy in type 2 diabetes. Phytomedicine, 2021, 83, 153478.	5.3	24
27	Tumor necroptosis is correlated with a favorable immune cell signature and programmed death-ligand 1 expression in cholangiocarcinoma. Scientific Reports, 2021, 11, 11743.	3.3	24
28	A novel strategy of profiling the mechanism of herbal medicines by combining network pharmacology with plasma concentration determination and affinity constant measurement. Molecular BioSystems, 2016, 12, 3347-3356.	2.9	22
29	A method for screening active components from Chinese herbs by cell membrane chromatography-offline-high performance liquid chromatography/mass spectrometry and an online statistical tool for data processing. Journal of Chromatography A, 2018, 1540, 68-76.	3.7	21
30	The Bcr-Abl inhibitor GNF-7 inhibits necroptosis and ameliorates acute kidney injury by targeting RIPK1 and RIPK3 kinases. Biochemical Pharmacology, 2020, 177, 113947.	4.4	20
31	Characterization of anti-leukemia components from Indigo naturalis using comprehensive two-dimensional K562/cell membrane chromatography and in silico target identification. Scientific Reports, 2016, 6, 25491.	3.3	19
32	Comparative two-dimensional HepG2 and LO2/ cell membrane chromatography/ C18/ time-of-flight mass spectrometry for screening selective anti-hepatoma components from Scutellariae Radix. Journal of Pharmaceutical and Biomedical Analysis, 2019, 164, 550-556.	2.8	19
33	Salvianic acid A sodium protects HUVEC cells against tert -butyl hydroperoxide induced oxidative injury via mitochondria-dependent pathway. Chemico-Biological Interactions, 2018, 279, 234-242.	4.0	18
34	Surface Plasmon Resonance-Based Membrane Protein-Targeted Active Ingredients Recognition Strategy: Construction and Implementation in Ligand Screening from Herbal Medicines. Analytical Chemistry, 2020, 92, 3972-3980.	6.5	17
35	Combination of comprehensive two-dimensional prostate cancer cell membrane chromatographic system and network pharmacology for characterizing membrane binding active components from Radix et Rhizoma Rhei and their targets. Journal of Chromatography A, 2018, 1564, 145-154.	3.7	15
36	A distinct glycerophospholipid metabolism signature of acute graft versus host disease with predictive value. JCI Insight, 2019, 4, .	5.0	14

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37	Targeting Necroptosis as a Promising Therapy for Alzheimer's Disease. ACS Chemical Neuroscience, 2022, 13, 1697-1713.	3.5	13
38	Guaiacol suppresses osteoclastogenesis by blocking interactions of RANK with TRAF6 and $\text{C}\alpha\text{c}\alpha\text{rc}$ and inhibiting $\text{NF}\alpha\text{c}\alpha\text{B}$ , MAPK and AKT pathways. Journal of Cellular and Molecular Medicine, 2020, 24, 5122-5134.	3.6	12
39	The multitargeted kinase inhibitor KW-2449 ameliorates cisplatin-induced nephrotoxicity by targeting RIPK1-mediated necroptosis. Biochemical Pharmacology, 2021, 188, 114542.	4.4	12
40	A stop-flow comprehensive two-dimensional HK-2 and HK-2/CIK1 cell membrane chromatography comparative analysis system for screening the active ingredients from <i>Pyrrosia calvata</i> (Bak.) Ching against crystal-induced kidney injury. Journal of Pharmaceutical and Biomedical Analysis, 2021, 195, 113825.	2.8	11
41	Shenjinhuoxue Mixture Attenuates Inflammation, Pain, and Cartilage Degeneration by Inhibiting TLR-4 and $\text{NF}\alpha\text{c}\alpha\text{B}$ Activation in Rats with Osteoarthritis: A Synergistic Combination of Multitarget Active Phytochemicals. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-21.	4.0	11
42	Activity ranking of synthetic analogs targeting vascular endothelial growth factor receptor 2 by an integrated cell membrane chromatography system. Journal of Separation Science, 2015, 38, 4159-4165.	2.5	10
43	Revealing Synergistic Mechanism of Multiple Components in Gandi Capsule for Diabetic Nephropathy Therapeutics by Network Pharmacology. Evidence-based Complementary and Alternative Medicine, 2018, 2018, 1-11.	1.2	10
44	Methodology of drug screening and target identification for new necroptosis inhibitors. Journal of Pharmaceutical Analysis, 2019, 9, 71-76.	5.3	10
45	Covalent Design of Cell Membrane Stationary Phase with Enhanced Stability for Fast Screening P-Glycoprotein Inhibitors. ACS Applied Bio Materials, 2020, 3, 5000-5006.	4.6	9
46	Integrated metabolomics and network pharmacology approach to exploring the potential mechanism of tianxiang capsule for treating motion sickness. Journal of Ethnopharmacology, 2021, 275, 114107.	4.1	9
47	Prenylated phenolic compounds from licorice ( <i>Glycyrrhiza uralensis</i> ) and their anti-inflammatory activity against osteoarthritis. Food and Function, 2022, 13, 795-805.	4.6	9
48	Identification of eupatilin and ginkgolide B as p38 ligands from medicinal herbs by surface plasmon resonance biosensor-based active ingredients recognition system. Journal of Pharmaceutical and Biomedical Analysis, 2019, 171, 35-42.	2.8	7
49	Comparative two-dimensional GPC3 overexpressing SK-Hep1 cell membrane chromatography /C18/ time-of-flight mass spectrometry for screening selective GPC3 inhibitor components from <i>Scutellariae Radix</i> . Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1163, 122492.	2.3	7
50	Simulation Strategies for Characterizing Phosphodiesterase-5 Inhibitors in Botanical Dietary Supplements. Analytical Chemistry, 2018, 90, 10765-10770.	6.5	6
51	Cardioprotective mechanism study of salvianic acid A sodium based on a proteome microarray approach and metabolomic profiling of rat serum after myocardial infarction. Molecular Omics, 2019, 15, 271-279.	2.8	6
52	Nuclear magnetic resonance-based plasma metabolomics revealed the protective effect of tea polyphenols on sulfur mustard-induced injury in rats. Journal of Pharmaceutical and Biomedical Analysis, 2020, 186, 113278.	2.8	6
53	Surface plasmon resonance biosensor combined with lentiviral particle stabilization strategy for rapid and specific screening of P-Glycoprotein ligands. Analytical and Bioanalytical Chemistry, 2021, 413, 2021-2031.	3.7	6
54	Characterization of Nucleotides and Nucleotide Sugars in <i>Candida albicans</i> by High Performance Liquid Chromatography-Mass Spectrometry with a Porous Graphite Carbon Column. Analytical Letters, 2014, 47, 234-249.	1.8	4

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55	Gandi Capsule Improved Podocyte Lipid Metabolism of Diabetic Nephropathy Mice through SIRT1/AMPK/HNF4A Pathway. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-17.	4.0	3
56	Assessment of the hemolysis and endothelial cell cytotoxicity induced by residual linear alkylbenzene sulfonates on pharmaceutical rubber stoppers based on HPLC-ESI-MS. <i>Biomedical Chromatography</i> , 2015, 29, 1350-1355.	1.7	2
57	Assessment of the Intestinal Permeability of Major Phytocomponents Contained in Gandi Capsules Using Ultra-High Performance Liquid Chromatography Coupled with Electrospray Ionization-Quadrupole-Time of Flight Mass Spectrometry. <i>Chromatographia</i> , 2018, 81, 1013-1021.	1.3	2
58	Different Reaction Patterns of Caregivers of Children With Imperforate Anus: A Latent Profile Analysis. <i>Frontiers in Pediatrics</i> , 2021, 9, 796725.	1.9	2