Cheng Zhang

List of Publications by Year
in descending order

73 papers	10,225 citations

147801

31 h-index	

88630

70 g-index	

91 all docs	91 docs citations

91 times ranked	18739 citing authors

#	ARTICLE	IF	CITATIONS
1	Integrative study of diet-induced mouse models of NAFLD identifies PPARα as a sexually dimorphic drug target. Gut, 2022, 71, 807-821.	12.1	26
2	Genome-wide annotation of protein-coding genes in pig. BMC Biology, 2022, 20, 25.	3.8	14
3	Multiomics Analysis Reveals the Impact of Microbiota on Host Metabolism in Hepatic Steatosis. Advanced Science, 2022, 9, e2104373.	11.2	23
4	A Gene Co-Expression Network-Based Drug Repositioning Approach Identifies Candidates for Treatment of Hepatocellular Carcinoma. Cancers, 2022, 14, 1573.	3.7	8
5	Prediction of drug candidates for clear cell renal cell carcinoma using a systems biology-based drug repositioning approach. EBioMedicine, 2022, 78, 103963.	6.1	11
6	Discovery of Functional Alternatively Spliced PKM Transcripts in Human Cancers. Cancers, 2021, 13, 348.	3.7	8
7	Spatiotemporal dissection of the cell cycle with single-cell proteogenomics. Nature, 2021, 590, 649-654.	27.8	104
8	Revealing the Metabolic Alterations during Biofilm Development of Burkholderia cenocepacia Based on Genome-Scale Metabolic Modeling. Metabolites, 2021, 11, 221.	2.9	5
9	iNetModels 2.0: an interactive visualization and database of multi-omics data. Nucleic Acids Research, 2021, 49, W271-W276.	14.5	25
10	Informing Pharmacokinetic Models With Physiological Data: Oral Population Modeling of L-Serine in Humans. Frontiers in Pharmacology, 2021, 12, 643179.	3.5	3
11	Integrative transcriptomic analysis of tissue-specific metabolic crosstalk after myocardial infarction. ELife, 2021, 10, .	6.0	20
12	Editorial: Application of Systems Biology in Molecular Characterization and Diagnosis of Cancer. Frontiers in Molecular Biosciences, 2021, 8, 668146.	3.5	1
13	Lysine demethylase LSD1 delivered via small extracellular vesicles promotes gastric cancer cell stemness. EMBO Reports, 2021, 22, e50922.	4.5	20
14	Combined Metabolic Activators Accelerates Recovery in Mild-to-Moderate COVID-19. Advanced Science, 2021, 8, e2101222.	11.2	49
15	A single-cell type transcriptomics map of human tissues. Science Advances, 2021, 7, .	10.3	632
16	Stratification of patients with clear cell renal cell carcinoma to facilitate drug repositioning. IScience, 2021, 24, 102722.	4.1	8
17	Advances in the Relationships Between Cow's Milk Protein Allergy and Gut Microbiota in Infants. Frontiers in Microbiology, 2021, 12, 716667.	3.5	6
18	Systems Analysis Reveals Ageing-Related Perturbations in Retinoids and Sex Hormones in Alzheimer's and Parkinson's Diseases. Biomedicines, 2021, 9, 1310.	3.2	8

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19	Combined Metabolic Activators Decrease Liver Steatosis by Activating Mitochondrial Metabolism in Hamsters Fed with a High-Fat Diet. Biomedicines, 2021, 9, 1440.	3.2	8
20	Combined metabolic activators therapy ameliorates liver fat in nonalcoholic fatty liver disease patients. Molecular Systems Biology, 2021, 17, e10459.	7.2	22
21	A network-based approach reveals the dysregulated transcriptional regulation in non-alcoholic fatty liver disease. IScience, 2021, 24, 103222.	4.1	14
22	Revealing the Molecular Mechanisms of Alzheimerâ€™s Disease Based on Network Analysis. International Journal of Molecular Sciences, 2021, 22, 11556.	4.1	10
23	Systems Biology Approaches to Decipher the Underlying Molecular Mechanisms of Glioblastoma Multiforme. International Journal of Molecular Sciences, 2021, 22, 13213.	4.1	3
24	Integration of molecular profiles in a longitudinal wellness profiling cohort. Nature Communications, 2020, 11, 4487.	12.8	66
25	The comprehensive upstream transcription and downstream targeting regulation network of miRNAs reveal potential diagnostic roles in gastric cancer. Life Sciences, 2020, 253, 117741.	4.3	6
26	An atlas of the protein-coding genes in the human, pig, and mouse brain. Science, 2020, 367, .	12.6	517
27	Genome-Scale Metabolic Modeling of Glioblastoma Reveals Promising Targets for Drug Development. Frontiers in Genetics, 2020, 11, 381.	2.3	22
28	Classification of clear cell renal cell carcinoma based on PKM alternative splicing. Heliyon, 2020, 6, e03440.	3.2	9
29	MEMOTE for standardized genome-scale metabolic model testing. Nature Biotechnology, 2020, 38, 272-276.	17.5	314
30	Boosting Natural Killer Cell-Mediated Targeting of Sarcoma Through DNAM-1 and NKG2D. Frontiers in Immunology, 2020, 11, 40.	4.8	40
31	The acute effect of metabolic cofactor supplementation: a potential therapeutic strategy against nonâ€alcoholic fatty liver disease. Molecular Systems Biology, 2020, 16, e9495.	7.2	39
32	A systems biology approach for studying neurodegenerative diseases. Drug Discovery Today, 2020, 25, 1146-1159.	6.4	23
33	Elucidating the Reprograming of Colorectal Cancer Metabolism Using Genome-Scale Metabolic Modeling. Frontiers in Oncology, 2019, 9, 681.	2.8	40
34	Cell Type-Specific Expression of Testis Elevated Genes Based on Transcriptomics and Antibody-Based Proteomics. Journal of Proteome Research, 2019, 18, 4215-4230.	3.7	29
35	Myricetin Attenuated Diabetes-Associated Kidney Injuries and Dysfunction via Regulating Nuclear Factor (Erythroid Derived 2)-Like 2 and Nuclear Factor-Î°B Signaling. Frontiers in Pharmacology, 2019, 10, 647.	3.5	24
36	LIPGâ€promoted lipid storage mediates adaptation to oxidative stress in breast cancer. International Journal of Cancer, 2019, 145, 901-915.	5.1	41

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37	Discovery of therapeutic agents for prostate cancer using genome-scale metabolic modeling and drug repositioning. EBioMedicine, 2019, 42, 386-396.	6.1	69
38	Expression of PD-L1 and PD-1 in Chemoradiotherapy-Naïve Esophageal and Gastric Adenocarcinoma: Relationship With Mismatch Repair Status and Survival. Frontiers in Oncology, 2019, 9, 136.	2.8	36
39	Mature Human White Adipocytes Cultured under Membranes Maintain Identity, Function, and Can Transdifferentiate into Brown-like Adipocytes. Cell Reports, 2019, 27, 213-225.e5.	6.4	83
40	A genome-wide transcriptomic analysis of protein-coding genes in human blood cells. Science, 2019, 366, .	12.6	329
41	Characterization of heterogeneous redox responses in hepatocellular carcinoma patients using network analysis. EBioMedicine, 2019, 40, 471-487.	6.1	38
42	Pyruvate kinase L/R is a regulator of lipid metabolism and mitochondrial function. Metabolic Engineering, 2019, 52, 263-272.	7.0	37
43	Discovery of KIRREL as a biomarker for prognostic stratification of patients with thin melanoma. Biomarker Research, 2019, 7, 1.	6.8	26
44	An Integrated Understanding of the Rapid Metabolic Benefits of a Carbohydrate-Restricted Diet on Hepatic Steatosis in Humans. Cell Metabolism, 2018, 27, 559-571.e5.	16.2	321
45	Integrative Personal Omics Profiles during Periods of Weight Gain and Loss. Cell Systems, 2018, 6, 157-170.e8.	6.2	183
46	TCSBN: a database of tissue and cancer specific biological networks. Nucleic Acids Research, 2018, 46, D595-D600.	14.5	55
47	Metabolic network-based stratification of hepatocellular carcinoma reveals three distinct tumor subtypes. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11874-E11883.	7.1	149
48	ESS: A Tool for Genome-Scale Quantification of Essentiality Score for Reaction/Genes in Constraint-Based Modeling. Frontiers in Physiology, 2018, 9, 1355.	2.8	8
49	Understanding the Representative Gut Microbiota Dysbiosis in Metformin-Treated Type 2 Diabetes Patients Using Genome-Scale Metabolic Modeling. Frontiers in Physiology, 2018, 9, 775.	2.8	58
50	Stereotypic Immune System Development in Newborn Children. Cell, 2018, 174, 1277-1292.e14.	28.9	478
51	Associations of PD-1 and PD-L1 expression with mismatch repair status and prognosis in chemoradiotherapy-naïve esophageal and gastric adenocarcinoma.. Journal of Clinical Oncology, 2018, 36, 9-9.	1.6	0
52	Transcriptome profiling of the interconnection of pathways involved in malignant transformation and response to hypoxia. Oncotarget, 2018, 9, 19730-19744.	1.8	1
53	Reframed Genome-Scale Metabolic Model to Facilitate Genetic Design and Integration with Expression Data. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2017, 14, 1410-1418.	3.0	3
54	Personal model-assisted identification of NAD^+ and glutathione metabolism as intervention target in NAFLD. Molecular Systems Biology, 2017, 13, 916.	7.2	147

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55	A subcellular map of the human proteome. Science, 2017, 356, .	12.6	2,079
56	Network analyses identify liver‐specific targets for treating liver diseases. Molecular Systems Biology, 2017, 13, 938.	7.2	112
57	Improving the phenotype predictions of a yeast genome‐scale metabolic model by incorporating enzymatic constraints. Molecular Systems Biology, 2017, 13, 935.	7.2	367
58	A pathology atlas of the human cancer transcriptome. Science, 2017, 357, .	12.6	2,570
59	Reconstruction of genome-scale metabolic model of Yarrowia lipolytica and its application in overproduction of triacylglycerol. Bioresources and Bioprocessing, 2017, 4, .	4.2	38
60	Investigating the Combinatory Effects of Biological Networks on Gene Co-expression. Frontiers in Physiology, 2016, 7, 160.	2.8	7
61	Dysregulated signaling hubs of liver lipid metabolism reveal hepatocellular carcinoma pathogenesis. Nucleic Acids Research, 2016, 44, 5529-5539.	14.5	35
62	IdealKnock: A framework for efficiently identifying knockout strategies leading to targeted overproduction. Computational Biology and Chemistry, 2016, 61, 229-237.	2.3	23
63	In silico identification of gene amplification targets based on analysis of production and growth coupling. BioSystems, 2016, 145, 1-8.	2.0	13
64	In silico profiling of cell growth and succinate production in Escherichia coli NZN111. Bioresources and Bioprocessing, 2016, 3, 48.	4.2	9
65	Integrated Network Analysis Reveals an Association between Plasma Mannose Levels and Insulin Resistance. Cell Metabolism, 2016, 24, 172-184.	16.2	133
66	The gut microbiota modulates host amino acid and glutathione metabolism in mice. Molecular Systems Biology, 2015, 11, 834.	7.2	291
67	Biofabricated Nanoparticle Coating for Liver‐Cell Targeting. Advanced Healthcare Materials, 2015, 4, 1972-1981.	7.6	13
68	Biospecific Self‐Assembly of a Nanoparticle Coating for Targeted and Stimuli‐Responsive Drug Delivery. Advanced Functional Materials, 2015, 25, 1404-1417.	14.9	50
69	Logical transformation of genome-scale metabolic models for gene level applications and analysis. Bioinformatics, 2015, 31, 2324-2331.	4.1	43
70	Applications of Genome-Scale Metabolic Models in Biotechnology and Systems Medicine. Frontiers in Physiology, 2015, 6, 413.	2.8	134
71	Drug Repositioning for Clear Cell Renal Cell Carcinoma Based on Stratification of Patients. SSRN Electronic Journal, 0, , .	0.4	1
72	Combined Metabolic Activators Decrease Liver Steatosis by Activating Mitochondrial Metabolism in a Golden Syrian Hamster Study. SSRN Electronic Journal, 0, , .	0.4	1

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73	Network Analysis Reveals Heterogeneous Response of Redox Metabolism in Hepatocellular Carcinoma Patients. SSRN Electronic Journal, 0, , .	0.4	0