

Cheng Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

10,225
citations

168829

31
h-index

100535

70
g-index

91
all docs

91
docs citations

91
times ranked

20465
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrative study of diet-induced mouse models of NAFLD identifies PPAR α as a sexually dimorphic drug target. <i>Gut</i> , 2022, 71, 807-821.	6.1	26
2	Genome-wide annotation of protein-coding genes in pig. <i>BMC Biology</i> , 2022, 20, 25.	1.7	14
3	Multimomics Analysis Reveals the Impact of Microbiota on Host Metabolism in Hepatic Steatosis. <i>Advanced Science</i> , 2022, 9, e2104373.	5.6	23
4	A Gene Co-Expression Network-Based Drug Repositioning Approach Identifies Candidates for Treatment of Hepatocellular Carcinoma. <i>Cancers</i> , 2022, 14, 1573.	1.7	8
5	Prediction of drug candidates for clear cell renal cell carcinoma using a systems biology-based drug repositioning approach. <i>EBioMedicine</i> , 2022, 78, 103963.	2.7	11
6	Discovery of Functional Alternatively Spliced PKM Transcripts in Human Cancers. <i>Cancers</i> , 2021, 13, 348.	1.7	8
7	Spatiotemporal dissection of the cell cycle with single-cell proteogenomics. <i>Nature</i> , 2021, 590, 649-654.	13.7	104
8	Revealing the Metabolic Alterations during Biofilm Development of <i>Burkholderia cenocepacia</i> Based on Genome-Scale Metabolic Modeling. <i>Metabolites</i> , 2021, 11, 221.	1.3	5
9	iNetModels 2.0: an interactive visualization and database of multi-omics data. <i>Nucleic Acids Research</i> , 2021, 49, W271-W276.	6.5	25
10	Informing Pharmacokinetic Models With Physiological Data: Oral Population Modeling of L-Serine in Humans. <i>Frontiers in Pharmacology</i> , 2021, 12, 643179.	1.6	3
11	Integrative transcriptomic analysis of tissue-specific metabolic crosstalk after myocardial infarction. <i>ELife</i> , 2021, 10, .	2.8	20
12	Editorial: Application of Systems Biology in Molecular Characterization and Diagnosis of Cancer. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 668146.	1.6	1
13	Lysine demethylase LSD1 delivered via small extracellular vesicles promotes gastric cancer cell stemness. <i>EMBO Reports</i> , 2021, 22, e50922.	2.0	20
14	Combined Metabolic Activators Accelerates Recovery in Mild to Moderate COVID-19. <i>Advanced Science</i> , 2021, 8, e2101222.	5.6	49
15	A single-cell type transcriptomics map of human tissues. <i>Science Advances</i> , 2021, 7, .	4.7	632
16	Stratification of patients with clear cell renal cell carcinoma to facilitate drug repositioning. <i>IScience</i> , 2021, 24, 102722.	1.9	8
17	Advances in the Relationships Between Cow's Milk Protein Allergy and Gut Microbiota in Infants. <i>Frontiers in Microbiology</i> , 2021, 12, 716667.	1.5	6
18	Systems Analysis Reveals Ageing-Related Perturbations in Retinoids and Sex Hormones in Alzheimer's and Parkinson's Diseases. <i>Biomedicines</i> , 2021, 9, 1310.	1.4	8

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19	Combined Metabolic Activators Decrease Liver Steatosis by Activating Mitochondrial Metabolism in Hamsters Fed with a High-Fat Diet. <i>Biomedicines</i> , 2021, 9, 1440.	1.4	8
20	Combined metabolic activators therapy ameliorates liver fat in nonalcoholic fatty liver disease patients. <i>Molecular Systems Biology</i> , 2021, 17, e10459.	3.2	22
21	A network-based approach reveals the dysregulated transcriptional regulation in non-alcoholic fatty liver disease. <i>IScience</i> , 2021, 24, 103222.	1.9	14
22	Revealing the Molecular Mechanisms of Alzheimer's Disease Based on Network Analysis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11556.	1.8	10
23	Systems Biology Approaches to Decipher the Underlying Molecular Mechanisms of Glioblastoma Multiforme. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13213.	1.8	3
24	Integration of molecular profiles in a longitudinal wellness profiling cohort. <i>Nature Communications</i> , 2020, 11, 4487.	5.8	66
25	The comprehensive upstream transcription and downstream targeting regulation network of miRNAs reveal potential diagnostic roles in gastric cancer. <i>Life Sciences</i> , 2020, 253, 117741.	2.0	6
26	An atlas of the protein-coding genes in the human, pig, and mouse brain. <i>Science</i> , 2020, 367, .	6.0	517
27	Genome-Scale Metabolic Modeling of Glioblastoma Reveals Promising Targets for Drug Development. <i>Frontiers in Genetics</i> , 2020, 11, 381.	1.1	22
28	Classification of clear cell renal cell carcinoma based on PKM alternative splicing. <i>Heliyon</i> , 2020, 6, e03440.	1.4	9
29	MEMOTE for standardized genome-scale metabolic model testing. <i>Nature Biotechnology</i> , 2020, 38, 272-276.	9.4	314
30	Boosting Natural Killer Cell-Mediated Targeting of Sarcoma Through DNAM-1 and NKG2D. <i>Frontiers in Immunology</i> , 2020, 11, 40.	2.2	40
31	The acute effect of metabolic cofactor supplementation: a potential therapeutic strategy against non-alcoholic fatty liver disease. <i>Molecular Systems Biology</i> , 2020, 16, e9495.	3.2	39
32	A systems biology approach for studying neurodegenerative diseases. <i>Drug Discovery Today</i> , 2020, 25, 1146-1159.	3.2	23
33	Elucidating the Reprogramming of Colorectal Cancer Metabolism Using Genome-Scale Metabolic Modeling. <i>Frontiers in Oncology</i> , 2019, 9, 681.	1.3	40
34	Cell Type-Specific Expression of Testis Elevated Genes Based on Transcriptomics and Antibody-Based Proteomics. <i>Journal of Proteome Research</i> , 2019, 18, 4215-4230.	1.8	29
35	Myricetin Attenuated Diabetes-Associated Kidney Injuries and Dysfunction via Regulating Nuclear Factor (Erythroid Derived 2)-Like 2 and Nuclear Factor- κ B Signaling. <i>Frontiers in Pharmacology</i> , 2019, 10, 647.	1.6	24
36	LIPG-promoted lipid storage mediates adaptation to oxidative stress in breast cancer. <i>International Journal of Cancer</i> , 2019, 145, 901-915.	2.3	41

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37	Discovery of therapeutic agents for prostate cancer using genome-scale metabolic modeling and drug repositioning. <i>EBioMedicine</i> , 2019, 42, 386-396.	2.7	69
38	Expression of PD-L1 and PD-1 in Chemoradiotherapy-Na ⁺ Esophageal and Gastric Adenocarcinoma: Relationship With Mismatch Repair Status and Survival. <i>Frontiers in Oncology</i> , 2019, 9, 136.	1.3	36
39	Mature Human White Adipocytes Cultured under Membranes Maintain Identity, Function, and Can Transdifferentiate into Brown-like Adipocytes. <i>Cell Reports</i> , 2019, 27, 213-225.e5.	2.9	83
40	A genome-wide transcriptomic analysis of protein-coding genes in human blood cells. <i>Science</i> , 2019, 366, .	6.0	329
41	Characterization of heterogeneous redox responses in hepatocellular carcinoma patients using network analysis. <i>EBioMedicine</i> , 2019, 40, 471-487.	2.7	38
42	Pyruvate kinase L/R is a regulator of lipid metabolism and mitochondrial function. <i>Metabolic Engineering</i> , 2019, 52, 263-272.	3.6	37
43	Discovery of KIRREL as a biomarker for prognostic stratification of patients with thin melanoma. <i>Biomarker Research</i> , 2019, 7, 1.	2.8	26
44	An Integrated Understanding of the Rapid Metabolic Benefits of a Carbohydrate-Restricted Diet on Hepatic Steatosis in Humans. <i>Cell Metabolism</i> , 2018, 27, 559-571.e5.	7.2	321
45	Integrative Personal Omics Profiles during Periods of Weight Gain and Loss. <i>Cell Systems</i> , 2018, 6, 157-170.e8.	2.9	183
46	TCSBN: a database of tissue and cancer specific biological networks. <i>Nucleic Acids Research</i> , 2018, 46, D595-D600.	6.5	55
47	Metabolic network-based stratification of hepatocellular carcinoma reveals three distinct tumor subtypes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11874-E11883.	3.3	149
48	ESS: A Tool for Genome-Scale Quantification of Essentiality Score for Reaction/Genes in Constraint-Based Modeling. <i>Frontiers in Physiology</i> , 2018, 9, 1355.	1.3	8
49	Understanding the Representative Gut Microbiota Dysbiosis in Metformin-Treated Type 2 Diabetes Patients Using Genome-Scale Metabolic Modeling. <i>Frontiers in Physiology</i> , 2018, 9, 775.	1.3	58
50	Stereotypic Immune System Development in Newborn Children. <i>Cell</i> , 2018, 174, 1277-1292.e14.	13.5	478
51	Associations of PD-1 and PD-L1 expression with mismatch repair status and prognosis in chemoradiotherapy-na ⁺ esophageal and gastric adenocarcinoma.. <i>Journal of Clinical Oncology</i> , 2018, 36, 9-9.	0.8	0
52	Transcriptome profiling of the interconnection of pathways involved in malignant transformation and response to hypoxia. <i>Oncotarget</i> , 2018, 9, 19730-19744.	0.8	1
53	Reframed Genome-Scale Metabolic Model to Facilitate Genetic Design and Integration with Expression Data. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2017, 14, 1410-1418.	1.9	3
54	Personal model-assisted identification of NAD ⁺ and Glutathione metabolism as intervention target in NAFLD. <i>Molecular Systems Biology</i> , 2017, 13, 916.	3.2	147

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55	A subcellular map of the human proteome. <i>Science</i> , 2017, 356, .	6.0	2,079
56	Network analyses identify liver-specific targets for treating liver diseases. <i>Molecular Systems Biology</i> , 2017, 13, 938.	3.2	112
57	Improving the phenotype predictions of a yeast genome-scale metabolic model by incorporating enzymatic constraints. <i>Molecular Systems Biology</i> , 2017, 13, 935.	3.2	367
58	A pathology atlas of the human cancer transcriptome. <i>Science</i> , 2017, 357, .	6.0	2,570
59	Reconstruction of genome-scale metabolic model of <i>Yarrowia lipolytica</i> and its application in overproduction of triacylglycerol. <i>Bioresources and Bioprocessing</i> , 2017, 4, .	2.0	38
60	Investigating the Combinatory Effects of Biological Networks on Gene Co-expression. <i>Frontiers in Physiology</i> , 2016, 7, 160.	1.3	7
61	Dysregulated signaling hubs of liver lipid metabolism reveal hepatocellular carcinoma pathogenesis. <i>Nucleic Acids Research</i> , 2016, 44, 5529-5539.	6.5	35
62	IdealKnock: A framework for efficiently identifying knockout strategies leading to targeted overproduction. <i>Computational Biology and Chemistry</i> , 2016, 61, 229-237.	1.1	23
63	In silico identification of gene amplification targets based on analysis of production and growth coupling. <i>BioSystems</i> , 2016, 145, 1-8.	0.9	13
64	In silico profiling of cell growth and succinate production in <i>Escherichia coli</i> NZN111. <i>Bioresources and Bioprocessing</i> , 2016, 3, 48.	2.0	9
65	Integrated Network Analysis Reveals an Association between Plasma Mannose Levels and Insulin Resistance. <i>Cell Metabolism</i> , 2016, 24, 172-184.	7.2	133
66	The gut microbiota modulates host amino acid and glutathione metabolism in mice. <i>Molecular Systems Biology</i> , 2015, 11, 834.	3.2	291
67	Biofabricated Nanoparticle Coating for Liver-Cell Targeting. <i>Advanced Healthcare Materials</i> , 2015, 4, 1972-1981.	3.9	13
68	Biospecific Self-Assembly of a Nanoparticle Coating for Targeted and Stimuli-Responsive Drug Delivery. <i>Advanced Functional Materials</i> , 2015, 25, 1404-1417.	7.8	50
69	Logical transformation of genome-scale metabolic models for gene level applications and analysis. <i>Bioinformatics</i> , 2015, 31, 2324-2331.	1.8	43
70	Applications of Genome-Scale Metabolic Models in Biotechnology and Systems Medicine. <i>Frontiers in Physiology</i> , 2015, 6, 413.	1.3	134
71	Drug Repositioning for Clear Cell Renal Cell Carcinoma Based on Stratification of Patients. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1
72	Combined Metabolic Activators Decrease Liver Steatosis by Activating Mitochondrial Metabolism in a Golden Syrian Hamster Study. <i>SSRN Electronic Journal</i> , 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