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	A pathology atlas of the human cancer transcriptome. Science, 2017, 357, .	12.6	2,570
2	A subcellular map of the human proteome. Science, 2017, 356, .	12.6	2,079
3	A singleâ€“cell type transcriptomics map of human tissues. Science Advances, 2021, 7, .	10.3	632
4	An atlas of the protein-coding genes in the human, pig, and mouse brain. Science, 2020, 367, .	12.6	517
5	Stereotypic Immune System Development in Newborn Children. Cell, 2018, 174, 1277-1292.e14.	28.9	478
6	Improving the phenotype predictions of a yeast genomeâ€scale metabolic model by incorporating enzymatic constraints. Molecular Systems Biology, 2017, 13, 935.	7.2	367
7	A genome-wide transcriptomic analysis of protein-coding genes in human blood cells. Science, 2019, 366, .	12.6	329
8	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
9	MEMOTE for standardized genome-scale metabolic model testing. Nature Biotechnology, 2020, 38, 272-276.	17.5	314
10	The gut microbiota modulates host amino acid and glutathione metabolism in mice. Molecular Systems Biology, 2015, 11, 834.	7.2	291
11	Integrative Personal Omics Profiles during Periods of Weight Gain and Loss. Cell Systems, 2018, 6, 157-170.e8.	6.2	183
12	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
13	Personal modelâ€assisted identification of NAD⁺ andÂglutathione metabolism as intervention target in NAFLD. Molecular Systems Biology, 2017, 13, 916.	7.2	147
14	Applications of Genome-Scale Metabolic Models in Biotechnology and Systems Medicine. Frontiers in Physiology, 2015, 6, 413.	2.8	134
15	Integrated Network Analysis Reveals an Association between Plasma Mannose Levels and Insulin Resistance. Cell Metabolism, 2016, 24, 172-184.	16.2	133
16	Network analyses identify liverâ€specific targets for treating liver diseases. Molecular Systems Biology, 2017, 13, 938.	7.2	112
17	Spatiotemporal dissection of the cell cycle with single-cell proteogenomics. Nature, 2021, 590, 649-654.	27.8	104
18	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

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19	Discovery of therapeutic agents for prostate cancer using genome-scale metabolic modeling and drug repositioning. EBioMedicine, 2019, 42, 386-396.	6.1	69
20	Integration of molecular profiles in a longitudinal wellness profiling cohort. Nature Communications, 2020, 11, 4487.	12.8	66
21	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
22	TCSBN: a database of tissue and cancer specific biological networks. Nucleic Acids Research, 2018, 46, D595-D600.	14.5	55
23	Biospecific Selfâ€Assembly of a Nanoparticle Coating for Targeted and Stimuliâ€Responsive Drug Delivery. Advanced Functional Materials, 2015, 25, 1404-1417.	14.9	50
24	Combined Metabolic Activators Accelerates Recovery in Mildâ€toâ€Moderate COVIDâ€19. Advanced Science, 2021, 8, e2101222.	11.2	49
25	Logical transformation of genome-scale metabolic models for gene level applications and analysis. Bioinformatics, 2015, 31, 2324-2331.	4.1	43
26	LIPGâ€promoted lipid storage mediates adaptation to oxidative stress in breast cancer. International Journal of Cancer, 2019, 145, 901-915.	5.1	41
27	Elucidating the Reprograming of Colorectal Cancer Metabolism Using Genome-Scale Metabolic Modeling. Frontiers in Oncology, 2019, 9, 681.	2.8	40
28	Boosting Natural Killer Cell-Mediated Targeting of Sarcoma Through DNAM-1 and NKG2D. Frontiers in Immunology, 2020, 11, 40.	4.8	40
29	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
30	Reconstruction of genome-scale metabolic model of Yarrowia lipolytica and its application in overproduction of triacylglycerol. Bioresources and Bioprocessing, 2017, 4, .	4.2	38
31	Characterization of heterogeneous redox responses in hepatocellular carcinoma patients using network analysis. EBioMedicine, 2019, 40, 471-487.	6.1	38
32	Pyruvate kinase L/R is a regulator of lipid metabolism and mitochondrial function. Metabolic Engineering, 2019, 52, 263-272.	7.0	37
33	Expression of PD-L1 and PD-1 in Chemoradiotherapy-NaÃ¯ve Esophageal and Gastric Adenocarcinoma: Relationship With Mismatch Repair Status and Survival. Frontiers in Oncology, 2019, 9, 136.	2.8	36
34	Dysregulated signaling hubs of liver lipid metabolism reveal hepatocellular carcinoma pathogenesis. Nucleic Acids Research, 2016, 44, 5529-5539.	14.5	35
35	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
36	Discovery of KIRREL as a biomarker for prognostic stratification of patients with thin melanoma. Biomarker Research, 2019, 7, 1.	6.8	26

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37	Integrative study of diet-induced mouse models of NAFLD identifies PPARÎ± as a sexually dimorphic drug target. Gut, 2022, 71, 807-821.	12.1	26
38	iNetModels 2.0: an interactive visualization and database of multi-omics data. Nucleic Acids Research, 2021, 49, W271-W276.	14.5	25
39	Myricetin Attenuated Diabetes-Associated Kidney Injuries and Dysfunction via Regulating Nuclear Factor (Erythroid Derived 2)-Like 2 and Nuclear Factor-Î²B Signaling. Frontiers in Pharmacology, 2019, 10, 647.	3.5	24
40	IdealKnock: A framework for efficiently identifying knockout strategies leading to targeted overproduction. Computational Biology and Chemistry, 2016, 61, 229-237.	2.3	23
41	A systems biology approach for studying neurodegenerative diseases. Drug Discovery Today, 2020, 25, 1146-1159.	6.4	23
42	Multiomics Analysis Reveals the Impact of Microbiota on Host Metabolism in Hepatic Steatosis. Advanced Science, 2022, 9, e2104373.	11.2	23
43	Genome-Scale Metabolic Modeling of Glioblastoma Reveals Promising Targets for Drug Development. Frontiers in Genetics, 2020, 11, 381.	2.3	22
44	Combined metabolic activators therapy ameliorates liver fat in nonalcoholic fatty liver disease patients. Molecular Systems Biology, 2021, 17, e10459.	7.2	22
45	Integrative transcriptomic analysis of tissue-specific metabolic crosstalk after myocardial infarction. ELife, 2021, 10, .	6.0	20
46	Lysine demethylase LSD1 delivered via small extracellular vesicles promotes gastric cancer cell stemness. EMBO Reports, 2021, 22, e50922.	4.5	20
47	A network-based approach reveals the dysregulated transcriptional regulation in non-alcoholic fatty liver disease. IScience, 2021, 24, 103222.	4.1	14
48	Genome-wide annotation of protein-coding genes in pig. BMC Biology, 2022, 20, 25.	3.8	14
49	Biofabricated Nanoparticle Coating for Liverâ€Cell Targeting. Advanced Healthcare Materials, 2015, 4, 1972-1981.	7.6	13
50	In silico identification of gene amplification targets based on analysis of production and growth coupling. BioSystems, 2016, 145, 1-8.	2.0	13
51	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
52	Revealing the Molecular Mechanisms of Alzheimerâ€™s Disease Based on Network Analysis. International Journal of Molecular Sciences, 2021, 22, 11556.	4.1	10
53	In silico profiling of cell growth and succinate production in Escherichia coli NZN111. Bioresources and Bioprocessing, 2016, 3, 48.	4.2	9
54	Classification of clear cell renal cell carcinoma based on PKM alternative splicing. Heliyon, 2020, 6, e03440.	3.2	9

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55	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
56	Discovery of Functional Alternatively Spliced PKM Transcripts in Human Cancers. Cancers, 2021, 13, 348.	3.7	8
57	Stratification of patients with clear cell renal cell carcinoma to facilitate drug repositioning. IScience, 2021, 24, 102722.	4.1	8
58	Systems Analysis Reveals Ageing-Related Perturbations in Retinoids and Sex Hormones in Alzheimerâ€™s and Parkinsonâ€™s Diseases. Biomedicines, 2021, 9, 1310.	3.2	8
59	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
60	A Gene Co-Expression Network-Based Drug Repositioning Approach Identifies Candidates for Treatment of Hepatocellular Carcinoma. Cancers, 2022, 14, 1573.	3.7	8
61	Investigating the Combinatory Effects of Biological Networks on Gene Co-expression. Frontiers in Physiology, 2016, 7, 160.	2.8	7
62	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
63	Advances in the Relationships Between Cowâ€™s Milk Protein Allergy and Gut Microbiota in Infants. Frontiers in Microbiology, 2021, 12, 716667.	3.5	6
64	Revealing the Metabolic Alterations during Biofilm Development of Burkholderia cenocepacia Based on Genome-Scale Metabolic Modeling. Metabolites, 2021, 11, 221.	2.9	5
65	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
66	Informing Pharmacokinetic Models With Physiological Data: Oral Population Modeling of L-Serine in Humans. Frontiers in Pharmacology, 2021, 12, 643179.	3.5	3
67	Systems Biology Approaches to Decipher the Underlying Molecular Mechanisms of Glioblastoma Multiforme. International Journal of Molecular Sciences, 2021, 22, 13213.	4.1	3
68	Drug Repositioning for Clear Cell Renal Cell Carcinoma Based on Stratification of Patients. SSRN Electronic Journal, 0, , .	0.4	1
69	Combined Metabolic Activators Decrease Liver Steatosis by Activating Mitochondrial Metabolism in a Golden Syrian Hamster Study. SSRN Electronic Journal, 0, , .	0.4	1
70	Editorial: Application of Systems Biology in Molecular Characterization and Diagnosis of Cancer. Frontiers in Molecular Biosciences, 2021, 8, 668146.	3.5	1
71	Transcriptome profiling of the interconnection of pathways involved in malignant transformation and response to hypoxia. Oncotarget, 2018, 9, 19730-19744.	1.8	1
72	Network Analysis Reveals Heterogeneous Response of Redox Metabolism in Hepatocellular Carcinoma Patients. SSRN Electronic Journal, 0, , .	0.4	0

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73	Associations of PD-1 and PD-L1 expression with mismatch repair status and prognosis in chemoradiotherapy-naÃ¯ve esophageal and gastric adenocarcinoma.. Journal of Clinical Oncology, 2018, 36, 9-9.	1.6	0