

Zeping Hu

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

6,755
citations

109321

35
h-index

98798

67
g-index

77
all docs

77
docs citations

77
times ranked

12960
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative stress inhibits distant metastasis by human melanoma cells. <i>Nature</i> , 2015, 527, 186-191.	27.8	964
2	NRF2 regulates serine biosynthesis in non-small cell lung cancer. <i>Nature Genetics</i> , 2015, 47, 1475-1481.	21.4	579
3	Hypoxia induces heart regeneration in adult mice. <i>Nature</i> , 2017, 541, 222-227.	27.8	566
4	Herb-Drug Interactions. <i>Drugs</i> , 2005, 65, 1239-1282.	10.9	520
5	Ascorbate regulates haematopoietic stem cell function and leukaemogenesis. <i>Nature</i> , 2017, 549, 476-481.	27.8	398
6	Oxidation of Alpha-Ketoglutarate Is Required for Reductive Carboxylation in Cancer Cells with Mitochondrial Defects. <i>Cell Reports</i> , 2014, 7, 1679-1690.	6.4	281
7	The Gut Commensal <i>Bacteroides thetaiotaomicron</i> Exacerbates Enteric Infection through Modification of the Metabolic Landscape. <i>Cell Host and Microbe</i> , 2014, 16, 759-769.	11.0	255
8	CPS1 maintains pyrimidine pools and DNA synthesis in KRAS/LKB1-mutant lung cancer cells. <i>Nature</i> , 2017, 546, 168-172.	27.8	222
9	MCT4 Defines a Glycolytic Subtype of Pancreatic Cancer with Poor Prognosis and Unique Metabolic Dependencies. <i>Cell Reports</i> , 2014, 9, 2233-2249.	6.4	182
10	Integrated cytokine and metabolite analysis reveals immunometabolic reprogramming in COVID-19 patients with therapeutic implications. <i>Nature Communications</i> , 2021, 12, 1618.	12.8	168
11	Inosine Monophosphate Dehydrogenase Dependence in a Subset of Small Cell Lung Cancers. <i>Cell Metabolism</i> , 2018, 28, 369-382.e5.	16.2	136
12	Regulation of mitochondrial biogenesis in erythropoiesis by mTORC1-mediated protein translation. <i>Nature Cell Biology</i> , 2017, 19, 626-638.	10.3	126
13	MYC-Driven Small-Cell Lung Cancer is Metabolically Distinct and Vulnerable to Arginine Depletion. <i>Clinical Cancer Research</i> , 2019, 25, 5107-5121.	7.0	117
14	Monitoring of immune responses to a herbal immuno-modulator in patients with advanced colorectal cancer. <i>International Immunopharmacology</i> , 2006, 6, 499-508.	3.8	105
15	MAVS, cGAS, and endogenous retroviruses in T-independent B cell responses. <i>Science</i> , 2014, 346, 1486-1492.	12.6	105
16	Targeting the Oncogene KRAS Mutant Pancreatic Cancer by Synergistic Blocking of Lysosomal Acidification and Rapid Drug Release. <i>ACS Nano</i> , 2019, 13, 4049-4063.	14.6	105
17	Inhibition of Cancer Cell Proliferation by PPAR γ Is Mediated by a Metabolic Switch that Increases Reactive Oxygen Species Levels. <i>Cell Metabolism</i> , 2014, 20, 650-661.	16.2	103
18	A reversed-phase capillary ultra-performance liquid chromatography-mass spectrometry (UPLC-MS) method for comprehensive top-down/bottom-up lipid profiling. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 2923-2933.	3.7	86

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19	Quantitative metabolic flux analysis reveals an unconventional pathway of fatty acid synthesis in cancer cells deficient for the mitochondrial citrate transport protein. <i>Metabolic Engineering</i> , 2017, 43, 198-207.	7.0	80
20	NAMPT inhibition sensitizes pancreatic adenocarcinoma cells to tumor-selective, PAR-independent metabolic catastrophe and cell death induced by Î²-lapachone. <i>Cell Death and Disease</i> , 2015, 6, e1599-e1599.	6.3	76
21	Emerging Applications of Metabolomics in Clinical Pharmacology. <i>Clinical Pharmacology and Therapeutics</i> , 2019, 106, 544-556.	4.7	73
22	A nanobuffer reporter library for fine-scale imaging and perturbation of endocytic organelles. <i>Nature Communications</i> , 2015, 6, 8524.	12.8	71
23	Preclinical and clinical evidence of NAD ⁺ precursors in health, disease, and ageing. <i>Mechanisms of Ageing and Development</i> , 2021, 199, 111567.	4.6	67
24	Drug-Herb Interactions: Eliminating Toxicity with Hard Drug Design. <i>Current Pharmaceutical Design</i> , 2006, 12, 4649-4664.	1.9	66
25	Arginine deficiency is involved in thrombocytopenia and immunosuppression in severe fever with thrombocytopenia syndrome. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	62
26	Impaired Neuronal Insulin Signaling Precedes AÎ² ²⁴² Accumulation in Female AÎ²PPsw/PS1 ^{E9} Mice. <i>Journal of Alzheimer's Disease</i> , 2012, 29, 783-791.	2.6	60
27	St. John's wort attenuates irinotecan-induced diarrhea via down-regulation of intestinal pro-inflammatory cytokines and inhibition of intestinal epithelial apoptosis. <i>Toxicology and Applied Pharmacology</i> , 2006, 216, 225-237.	2.8	59
28	Metabonomic Profiling of TASTPM Transgenic Alzheimer's Disease Mouse Model. <i>Journal of Proteome Research</i> , 2012, 11, 5903-5913.	3.7	57
29	Metabolic plasticity maintains proliferation in pyruvate dehydrogenase deficient cells. <i>Cancer & Metabolism</i> , 2015, 3, 7.	5.0	56
30	Gluconeogenic enzyme PCK1 deficiency promotes CHK2 O-GlcNAcylation and hepatocellular carcinoma growth upon glucose deprivation. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	51
31	Fine-Tuning of PGC1Î± Expression Regulates Cardiac Function and Longevity. <i>Circulation Research</i> , 2019, 125, 707-719.	4.5	47
32	Metabolic remodelling during early mouse embryo development. <i>Nature Metabolism</i> , 2021, 3, 1372-1384.	11.9	45
33	Metabolomics, metabolic flux analysis and cancer pharmacology. , 2021, 224, 107827.		44
34	Simultaneous determination of the lactone and carboxylate forms of irinotecan (CPT-11) and its active metabolite SN-38 by high-performance liquid chromatography: Application to plasma pharmacokinetic studies in the rat. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 821, 221-228.	2.3	43
35	Evolutionary metabolic landscape from preneoplasia to invasive lung adenocarcinoma. <i>Nature Communications</i> , 2021, 12, 6479.	12.8	43
36	St. John's Wort Modulates the Toxicities and Pharmacokinetics of CPT-11 (Irinotecan) in Rats. <i>Pharmaceutical Research</i> , 2005, 22, 902-914.	3.5	40

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37	Simultaneous 3-Nitrophenylhydrazine Derivatization Strategy of Carbonyl, Carboxyl and Phosphoryl Submetabolome for LC-MS/MS-Based Targeted Metabolomics with Improved Sensitivity and Coverage. <i>Analytical Chemistry</i> , 2021, 93, 10075-10083.	6.5	40
38	Pyrimidine Salvage Enzymes Are Essential for De Novo Biosynthesis of Deoxypyrimidine Nucleotides in <i>Trypanosoma brucei</i> . <i>PLoS Pathogens</i> , 2016, 12, e1006010.	4.7	39
39	The abundance of metabolites related to protein methylation correlates with the metastatic capacity of human melanoma xenografts. <i>Science Advances</i> , 2017, 3, eaao5268.	10.3	38
40	Novel Agents that Potentially Inhibit Irinotecan-Induced Diarrhea. <i>Current Medicinal Chemistry</i> , 2005, 12, 1343-1358.	2.4	37
41	Addressing metabolic heterogeneity in clear cell renal cell carcinoma with quantitative Dixon MRI. <i>JCI Insight</i> , 2017, 2, .	5.0	36
42	Monitoring drug-protein interaction. <i>Clinica Chimica Acta</i> , 2006, 365, 9-29.	1.1	35
43	A Mechanistic Study on Reduced Toxicity of Irinotecan by Coadministered Thalidomide, a Tumor Necrosis Factor- α Inhibitor. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2006, 319, 82-104.	2.5	33
44	Aberrant NAD ⁺ metabolism underlies Zika virus-induced microcephaly. <i>Nature Metabolism</i> , 2021, 3, 1109-1124.	11.9	33
45	Mettl17, a regulator of mitochondrial ribosomal RNA modifications, is required for the translation of mitochondrial coding genes. <i>FASEB Journal</i> , 2019, 33, 13040-13050.	0.5	32
46	Metabolomic response of human skin tissue to low dose ionizing radiation. <i>Molecular BioSystems</i> , 2012, 8, 1979.	2.9	31
47	A Mechanistic Study on Altered Pharmacokinetics of Irinotecan by St. Johns Wort. <i>Current Drug Metabolism</i> , 2007, 8, 157-171.	1.2	30
48	Restoring nuclear entry of Sirtuin 2 in oligodendrocyte progenitor cells promotes remyelination during ageing. <i>Nature Communications</i> , 2022, 13, 1225.	12.8	27
49	Non-oxidative pentose phosphate pathway controls regulatory T cell function by integrating metabolism and epigenetics. <i>Nature Metabolism</i> , 2022, 4, 559-574.	11.9	27
50	Simultaneous determination of irinotecan (CPT-11) and SN-38 in tissue culture media and cancer cells by high performance liquid chromatography: Application to cellular metabolism and accumulation studies. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 850, 575-580.	2.3	25
51	Treatment of SARS-CoV-2-induced pneumonia with NAD ⁺ and NMN in two mouse models. <i>Cell Discovery</i> , 2022, 8, 38.	6.7	24
52	The fungus gardens of leaf-cutter ants undergo a distinct physiological transition during biomass degradation. <i>Environmental Microbiology Reports</i> , 2014, 6, 389-395.	2.4	21
53	Neddylation inhibition induces glutamine uptake and metabolism by targeting CRL3SPOP E3 ligase in cancer cells. <i>Nature Communications</i> , 2022, 13, .	12.8	20
54	Recombinant human parathyroid hormone 1-34: Pharmacokinetics, tissue distribution and excretion in rats. <i>International Journal of Pharmaceutics</i> , 2006, 317, 144-154.	5.2	19

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55	Determination of thalidomide by high performance liquid chromatography: Plasma pharmacokinetic studies in the rat. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 39, 299-304.	2.8	16
56	GLP-1 Receptor Mediated Targeting of a Fluorescent Zn ²⁺ Sensor to Beta Cell Surface for Imaging Insulin/Zn ²⁺ Release. <i>Bioconjugate Chemistry</i> , 2015, 26, 1443-1450.	3.6	16
57	Formation of dehydroalanine from mimosine and cysteine: artifacts in gas chromatography/mass spectrometry based metabolomics. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2561-2564.	1.5	14
58	Drug Acyl Glucuronides: Reactivity and Analytical Implication. <i>Current Pharmaceutical Analysis</i> , 2006, 2, 259-277.	0.6	13
59	Small Interfering RNA-Mediated Silencing of Cytochrome P450 3A4 Gene. <i>Drug Metabolism and Disposition</i> , 2006, 34, 1650-1657.	3.3	13
60	High and Low Doses of Ionizing Radiation Induce Different Secretome Profiles in a Human Skin Model. <i>PLoS ONE</i> , 2014, 9, e92332.	2.5	13
61	Influence of YES1 Kinase and Tyrosine Phosphorylation on the Activity of OCT1. <i>Frontiers in Pharmacology</i> , 2021, 12, 644342.	3.5	12
62	Illuminating a time-response mechanism in mice liver after PM2.5 exposure using metabolomics analysis. <i>Science of the Total Environment</i> , 2021, 767, 144485.	8.0	12
63	Pharmacokinetic Mechanisms for Reduced Toxicity of Irinotecan by Coadministered Thalidomide. <i>Current Drug Metabolism</i> , 2006, 7, 431-454.	1.2	10
64	Metabolic characterization of hypertrophic cardiomyopathy in human heart. , 2022, 1, 445-461.		8
65	Circulatory metabolites trigger ex vivo arterial endothelial cell dysfunction in population chronically exposed to diesel exhaust. <i>Particle and Fibre Toxicology</i> , 2022, 19, 20.	6.2	5
66	Abstract 2806: Oxidative stress limits metastasis of human melanoma cells. , 2016, , .		2
67	Identifying metabolomic features that predict metastasis of melanoma from a primary site. <i>Cancer & Metabolism</i> , 2014, 2, .	5.0	1
68	Addressing metabolic heterogeneity in clear cell renal cell carcinoma with quantitative magnetic resonance imaging. <i>Journal of Clinical Oncology</i> , 2017, 35, 460-460.	1.6	1
69	A metabolic map of hematopoietic stem cells. <i>Cancer & Metabolism</i> , 2014, 2, .	5.0	0
70	Metabolic mechanisms regulating distinct steps of the melanoma metastatic cascade. <i>Cancer & Metabolism</i> , 2014, 2, .	5.0	0
71	Quantitative Proteomic and Transcriptomic Analysis Reveals Post-Transcriptional Regulation of Mitochondrial Biogenesis during Erythropoiesis. <i>Blood</i> , 2015, 126, 47-47.	1.4	0
72	Mitochondria Coordinate Intracellular Metabolism and Epigenetic Gene Regulation during Erythropoiesis. <i>Blood</i> , 2016, 128, 1038-1038.	1.4	0

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73	Abstract IA27: MYC drives molecular and therapeutically distinct subtype of SCLC. , 2018, , .		0