Jing Fan

List of Publications by Year in descending order

34 papers	6,931 citations	218592 26 h-index	377752 34 g-index
38 all docs	38 docs citations	38 times ranked	11810 citing authors

#	Article	IF	Citations
1	Activated Ras requires autophagy to maintain oxidative metabolism and tumorigenesis. Genes and Development, 2011, 25, 460-470.	2.7	1,093
2	Quantitative flux analysis reveals folate-dependent NADPH production. Nature, 2014, 510, 298-302.	13.7	892
3	Hypoxic and Ras-transformed cells support growth by scavenging unsaturated fatty acids from lysophospholipids. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8882-8887.	3.3	585
4	Gut microbial metabolites as multi-kingdom intermediates. Nature Reviews Microbiology, 2021, 19, 77-94.	13.6	557
5	Asparagine Plays a Critical Role in Regulating Cellular Adaptation to Glutamine Depletion. Molecular Cell, 2014, 56, 205-218.	4.5	347
6	Serine Catabolism Regulates Mitochondrial Redox Control during Hypoxia. Cancer Discovery, 2014, 4, 1406-1417.	7.7	342
7	Glutamineâ€driven oxidative phosphorylation is a major ATP source in transformed mammalian cells in both normoxia and hypoxia. Molecular Systems Biology, 2013, 9, 712.	3.2	338
8	Metabolite concentrations, fluxes and free energies imply efficient enzyme usage. Nature Chemical Biology, 2016, 12, 482-489.	3.9	332
9	Pyruvate kinase M2 promotes de novo serine synthesis to sustain mTORC1 activity and cell proliferation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6904-6909.	3.3	323
10	Metabolic Regulation of Histone Post-Translational Modifications. ACS Chemical Biology, 2015, 10, 95-108.	1.6	259
11	As Extracellular Glutamine Levels Decline, Asparagine Becomes an Essential Amino Acid. Cell Metabolism, 2018, 27, 428-438.e5.	7.2	220
12	Quantitative analysis of acetyl-CoA production in hypoxic cancer cells reveals substantial contribution from acetate. Cancer & Metabolism, 2014, 2, 23.	2.4	182
13	Stoichiometry of Site-specific Lysine Acetylation in an Entire Proteome. Journal of Biological Chemistry, 2014, 289, 21326-21338.	1.6	157
14	SIRT3 Mediates Multi-Tissue Coupling for Metabolic Fuel Switching. Cell Metabolism, 2015, 21, 637-646.	7.2	154
15	Human Phosphoglycerate Dehydrogenase Produces the Oncometabolite <scp>d</scp>-2-Hydroxyglutarate. ACS Chemical Biology, 2015, 10, 510-516.	1.6	152
16	Systems-Level Metabolic Flux Profiling Elucidates a Complete, Bifurcated Tricarboxylic Acid Cycle in Clostridium acetobutylicum. Journal of Bacteriology, 2010, 192, 4452-4461.	1.0	122
17	Malic enzyme tracers reveal hypoxia-induced switch in adipocyte NADPH pathway usage. Nature Chemical Biology, 2016, 12, 345-352.	3.9	103
18	A small molecule G6PD inhibitor reveals immune dependence on pentose phosphate pathway. Nature Chemical Biology, 2020, 16, 731-739.	3.9	101

#	Article	IF	Citations
19	Collagen Matrix Density Drives the Metabolic Shift in Breast Cancer Cells. EBioMedicine, 2016, 13, 146-156.	2.7	90
20	Two-stage metabolic remodelling in macrophages in response to lipopolysaccharide and interferon-Î³ stimulation. Nature Metabolism, 2019, 1, 731-742.	5.1	90
21	Liquid Chromatographyâ€“High Resolution Mass Spectrometry Analysis of Fatty Acid Metabolism. Analytical Chemistry, 2011, 83, 9114-9122.	3.2	82
22	Malonate Promotes Adult Cardiomyocyte Proliferation and Heart Regeneration. Circulation, 2021, 143, 1973-1986.	1.6	67
23	A Novel Quantitative Mass Spectrometry Platform for Determining Protein O-GlcNAcylation Dynamics. Molecular and Cellular Proteomics, 2016, 15, 2462-2475.	2.5	63
24	Switching to the cyclic pentose phosphate pathway powers the oxidative burst in activated neutrophils. Nature Metabolism, 2022, 4, 389-403.	5.1	58
25	Fatty Acid Labeling from Glutamine in Hypoxia Can Be Explained by Isotope Exchange without Net Reductive Isocitrate Dehydrogenase (IDH) Flux. Journal of Biological Chemistry, 2013, 288, 31363-31369.	1.6	56
26	Quantitation of Cellular Metabolic Fluxes of Methionine. Analytical Chemistry, 2014, 86, 1583-1591.	3.2	42
27	Promoter demethylation of the asparagine synthetase gene is required for ATF4-dependent adaptation to asparagine depletion. Journal of Biological Chemistry, 2019, 294, 18674-18684.	1.6	26
28	Revealing Dynamic Protein Acetylation across Subcellular Compartments. Journal of Proteome Research, 2020, 19, 2404-2418.	1.8	26
29	Discovering How Heme Controls Genome Function Through Heme-omics. Cell Reports, 2020, 31, 107832.	2.9	21
30	Metabolic regulation of epigenetic remodeling in immune cells. Current Opinion in Biotechnology, 2020, 63, 111-117.	3.3	21
31	A matter of time: temporal structure and functional relevance of macrophage metabolic rewiring. Trends in Endocrinology and Metabolism, 2022, 33, 345-358.	3.1	8
32	Analysis of Arginine Metabolism Using LC-MS and Isotopic Labeling. Methods in Molecular Biology, 2019, 1978, 199-217.	0.4	6
33	Metabolomic and Lipidomic Analysis of Bone Marrow Derived Macrophages. Bio-protocol, 2020, 10, e3693.	0.2	6
34	Career pathways, part 3. Nature Metabolism, 2021, 3, 2-4.	5.1	0