

# Sophia Y Lunt

## List of Publications by Citations

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43  
papers

4,035  
citations

20  
h-index

52  
g-index

52  
ext. papers

5,022  
ext. citations

10.2  
avg, IF

5.7  
L-index

#	Paper	IF	Citations
43	Aerobic glycolysis: meeting the metabolic requirements of cell proliferation. <i>Annual Review of Cell and Developmental Biology</i> , <b>2011</b> , 27, 441-64	12.6	1680
42	Pyruvate kinase M2 activators promote tetramer formation and suppress tumorigenesis. <i>Nature Chemical Biology</i> , <b>2012</b> , 8, 839-47	11.7	476
41	A roadmap for interpreting (13)C metabolite labeling patterns from cells. <i>Current Opinion in Biotechnology</i> , <b>2015</b> , 34, 189-201	11.4	368
40	Fatty acid carbon is essential for dNTP synthesis in endothelial cells. <i>Nature</i> , <b>2015</b> , 520, 192-197	50.4	353
39	Metabolic pathway alterations that support cell proliferation. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , <b>2011</b> , 76, 325-34	3.9	207
38	Pyruvate kinase isoform expression alters nucleotide synthesis to impact cell proliferation. <i>Molecular Cell</i> , <b>2015</b> , 57, 95-107	17.6	164
37	Succinate dehydrogenase inhibition leads to epithelial-mesenchymal transition and reprogrammed carbon metabolism. <i>Cancer &amp; Metabolism</i> , <b>2014</b> , 2, 21	5.4	97
36	A domino effect in antifolate drug action in Escherichia coli. <i>Nature Chemical Biology</i> , <b>2008</b> , 4, 602-8	11.7	86
35	Impact of Ultrathin C on Perovskite Photovoltaic Devices. <i>ACS Nano</i> , <b>2018</b> , 12, 876-883	16.7	64
34	Antifolate-induced depletion of intracellular glycine and purines inhibits thymineless death in E. coli. <i>ACS Chemical Biology</i> , <b>2010</b> , 5, 787-95	4.9	55
33	Sialic Acid Metabolism: A Key Player in Breast Cancer Metastasis Revealed by Metabolomics. <i>Frontiers in Oncology</i> , <b>2018</b> , 8, 174	5.3	43
32	Isotope ratio-based profiling of microbial folates. <i>Journal of the American Society for Mass Spectrometry</i> , <b>2007</b> , 18, 898-909	3.5	41
31	Organic Heptamethine Salts for Photovoltaics and Detectors with Near-Infrared Photoresponse up to 1600 nm. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 1028-1033	8.1	37
30	Metabolism in cancer metastasis: bioenergetics, biosynthesis, and beyond. <i>Wiley Interdisciplinary Reviews: Systems Biology and Medicine</i> , <b>2018</b> , 10, e1406	6.6	35
29	Dose-Dependent Metabolic Reprogramming and Differential Gene Expression in TCDD-Elicited Hepatic Fibrosis. <i>Toxicological Sciences</i> , <b>2016</b> , 154, 253-266	4.4	33
28	Deciphering metabolic rewiring in breast cancer subtypes. <i>Translational Research</i> , <b>2017</b> , 189, 105-122	11	30
27	Development of a colon cancer GEMM-derived orthotopic transplant model for drug discovery and validation. <i>Clinical Cancer Research</i> , <b>2013</b> , 19, 2929-40	12.9	30

26	Pyruvate Kinase Isoform Switching and Hepatic Metabolic Reprogramming by the Environmental Contaminant 2,3,7,8-Tetrachlorodibenzo-p-Dioxin. <i>Toxicological Sciences</i> , <b>2016</b> , 149, 358-71	4.4	25
25	Integrated analyses of murine breast cancer models reveal critical parallels with human disease. <i>Nature Communications</i> , <b>2019</b> , 10, 3261	17.4	22
24	Metabolism A cornerstone of cancer initiation, progression, immune evasion and treatment response. <i>Current Opinion in Systems Biology</i> , <b>2018</b> , 8, 67-72	3.2	20
23	Cysteine catabolism and the serine biosynthesis pathway support pyruvate production during pyruvate kinase knockdown in pancreatic cancer cells. <i>Cancer &amp; Metabolism</i> , <b>2019</b> , 7, 13	5.4	19
22	Prediction of years of life after diagnosis of breast cancer using omics and omic-by-treatment interactions. <i>European Journal of Human Genetics</i> , <b>2017</b> , 25, 538-544	5.3	18
21	In Vivo Evidence for Serine Biosynthesis-Defined Sensitivity of Lung Metastasis, but Not of Primary Breast Tumors, to mTORC1 Inhibition. <i>Molecular Cell</i> , <b>2021</b> , 81, 386-397.e7	17.6	18
20	Modulating cellular cytotoxicity and phototoxicity of fluorescent organic salts through counterion pairing. <i>Scientific Reports</i> , <b>2019</b> , 9, 15288	4.9	14
19	Metformin induces distinct bioenergetic and metabolic profiles in sensitive versus resistant high grade serous ovarian cancer and normal fallopian tube secretory epithelial cells. <i>Oncotarget</i> , <b>2018</b> , 9, 4044-4060	3.3	11
18	Dynamic ROS Regulation by TIGAR: Balancing Anti-cancer and Pro-metastasis Effects. <i>Cancer Cell</i> , <b>2020</b> , 37, 141-142	24.3	9
17	Anions for Near-Infrared Selective Organic Salt Photovoltaics. <i>Scientific Reports</i> , <b>2017</b> , 7, 16399	4.9	8
16	Mitochondrial Haplotype of the Host Stromal Microenvironment Alters Metastasis in a Non-cell Autonomous Manner. <i>Cancer Research</i> , <b>2020</b> , 80, 1118-1129	10.1	7
15	Enhanced Electroluminescence Efficiency in Metal Halide Nanocluster Based Light Emitting Diodes through Apical Halide Exchange. <i>ACS Applied Energy Materials</i> , <b>2018</b> , 1, 3587-3592	6.1	4
14	Targeting integrated epigenetic and metabolic pathways in lethal childhood PFA ependymomas. <i>Science Translational Medicine</i> , <b>2021</b> , 13, eabc0497	17.5	3
13	Balancing precision versus cohort transcriptomic analysis of acute and recovery phase of viral bronchiolitis. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2021</b> , 320, L1147-L1157	5.8	3
12	Photovoltaic Devices: Organic Heptamethine Salts for Photovoltaics and Detectors with Near-Infrared Photoresponse up to 1600 nm (Advanced Optical Materials 7/2016). <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 1027-1027	8.1	3
11	Measuring the Nutrient Metabolism of Adherent Cells in Culture. <i>Methods in Molecular Biology</i> , <b>2019</b> , 1862, 37-52	1.4	3
10	UDP-glucose 6-dehydrogenase knockout impairs migration and decreases in vivo metastatic ability of breast cancer cells. <i>Cancer Letters</i> , <b>2020</b> , 492, 21-30	9.9	2
9	Targeting Subtype-Specific Metabolic Preferences in Nucleotide Biosynthesis Inhibits Tumor Growth in a Breast Cancer Model. <i>Cancer Research</i> , <b>2021</b> , 81, 303-314	10.1	2

8	Heterogeneity in PHGDH protein expression potentiates cancer cell dissemination and metastasis		2
7	Combined Plasma and Urinary Metabolomics Uncover Metabolic Perturbations Associated with Severe Respiratory Syncytial Viral Infection and Future Development of Asthma in Infant Patients.. <i>Metabolites</i> , <b>2022</b> , 12,	5.6	2
6	The glutathione import system satisfies the <i>Staphylococcus aureus</i> nutrient sulfur requirement and promotes interspecies competition		1
5	Metabolomic profiling of mouse mammary tumor-derived cell lines reveals targeted therapy options for cancer subtypes. <i>Cellular Oncology (Dordrecht)</i> , <b>2020</b> , 43, 1117-1127	7.2	1
4	DNA Methylation and Gene Expression with Clinical Covariates Explain Variation in Aggressiveness and Survival of Pancreatic Cancer Patients. <i>Cancer Investigation</i> , <b>2020</b> , 38, 502-506	2.1	1
3	Current Advances in Photoactive Agents for Cancer Imaging and Therapy. <i>Annual Review of Biomedical Engineering</i> , <b>2021</b> , 23, 29-60	12	1
2	Genomic and metabolomic analysis of step-wise malignant transformation in human skin fibroblasts. <i>Carcinogenesis</i> , <b>2020</b> , 41, 656-665	4.6	1
1	688: Advancing Our Understanding of Infant Bronchiolitis Using Plasma and Urine Metabolomics. <i>Critical Care Medicine</i> , <b>2021</b> , 49, 339-339	1.4	