

James B Hurley

List of Publications by Year in descending order

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47
papers

5,929
citations

236925

25
h-index

243625

44
g-index

56
all docs

56
docs citations

56
times ranked

12146
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracellular matrix dysfunction in Sorsby patient-derived retinal pigment epithelium. <i>Experimental Eye Research</i> , 2022, 215, 108899.	2.6	6
2	Monocarboxylate Transporter 1 (MCT1) Mediates Succinate Export in the Retina. , 2022, 63, 1.		11
3	Succinate metabolism in the retinal pigment epithelium uncouples respiration from ATP synthesis. <i>Cell Reports</i> , 2022, 39, 110917.	6.4	14
4	Mitochondria: The Retina's Achilles' Heel in AMD. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1256, 237-264.	1.6	9
5	Absence of retbindin blocks glycolytic flux, disrupts metabolic homeostasis, and leads to photoreceptor degeneration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	10
6	Effect of selectively knocking down key metabolic genes in Müller glia on photoreceptor health. <i>Glia</i> , 2021, 69, 1966-1986.	4.9	13
7	Retina Metabolism and Metabolism in the Pigmented Epithelium: A Busy Intersection. <i>Annual Review of Vision Science</i> , 2021, 7, 665-692.	4.4	63
8	Fluidics system for resolving concentration-dependent effects of dissolved gases on tissue metabolism. <i>ELife</i> , 2021, 10, .	6.0	8
9	An Analysis of Metabolic Changes in the Retina and Retinal Pigment Epithelium of Aging Mice. , 2021, 62, 20.		5
10	Increasing Ca ²⁺ in photoreceptor mitochondria alters metabolites, accelerates photoresponse recovery, and reveals adaptations to mitochondrial stress. <i>Cell Death and Differentiation</i> , 2020, 27, 1067-1085.	11.2	27
11	Daily mitochondrial dynamics in cone photoreceptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 28816-28827.	7.1	36
12	Non-photopic and photopic visual cycles differentially regulate immediate, early, and late phases of cone photoreceptor-mediated vision. <i>Journal of Biological Chemistry</i> , 2020, 295, 6482-6497.	3.4	15
13	Succinate Can Shuttle Reducing Power from the Hypoxic Retina to the O ₂ -Rich Pigment Epithelium. <i>Cell Reports</i> , 2020, 31, 107606.	6.4	62
14	Retinal disease: How to use proteomics to speed up diagnosis and metabolomics to slow down degeneration. <i>EBioMedicine</i> , 2020, 53, 102687.	6.1	3
15	Mitochondrial Calcium Uniporter (MCU) deficiency reveals an alternate path for Ca ²⁺ uptake in photoreceptor mitochondria. <i>Scientific Reports</i> , 2020, 10, 16041.	3.3	21
16	Loss of MPC1 reprograms retinal metabolism to impair visual function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3530-3535.	7.1	83
17	Pyruvate kinase M2 regulates photoreceptor structure, function, and viability. <i>Cell Death and Disease</i> , 2018, 9, 240.	6.3	46
18	How Excessive cGMP Impacts Metabolic Proteins in Retinas at the Onset of Degeneration. <i>Advances in Experimental Medicine and Biology</i> , 2018, 1074, 289-295.	1.6	16

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19	Preparing Fresh Retinal Slices from Adult Zebrafish for Ex Vivo Imaging Experiments. Journal of Visualized Experiments, 2018, .	0.3	3
20	Impact of euthanasia, dissection and postmortem delay on metabolic profile in mouse retina and RPE/choroid. Experimental Eye Research, 2018, 174, 113-120.	2.6	25
21	Mitochondria Maintain Distinct Ca ²⁺ Pools in Cone Photoreceptors. Journal of Neuroscience, 2017, 37, 2061-2072.	3.6	40
22	Human retinal pigment epithelial cells prefer proline as a nutrient and transport metabolic intermediates to the retinal side. Journal of Biological Chemistry, 2017, 292, 12895-12905.	3.4	68
23	Biochemical adaptations of the retina and retinal pigment epithelium support a metabolic ecosystem in the vertebrate eye. ELife, 2017, 6, .	6.0	254
24	Warburg's vision. ELife, 2017, 6, .	6.0	5
25	Reductive carboxylation is a major metabolic pathway in the retinal pigment epithelium. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 14710-14715.	7.1	94
26	Phototransduction Influences Metabolic Flux and Nucleotide Metabolism in Mouse Retina. Journal of Biological Chemistry, 2016, 291, 4698-4710.	3.4	87
27	Reprogramming metabolism by targeting sirtuin 6 attenuates retinal degeneration. Journal of Clinical Investigation, 2016, 126, 4659-4673.	8.2	82
28	Deficient glucose and glutamine metabolism in knockout mice contributes to altered visual function. Molecular Vision, 2016, 22, 1198-1212.	1.1	9
29	Probing Metabolism in the Intact Retina Using Stable Isotope Tracers. Methods in Enzymology, 2015, 561, 149-170.	1.0	59
30	Glucose, lactate, and shuttling of metabolites in vertebrate retinas. Journal of Neuroscience Research, 2015, 93, 1079-1092.	2.9	182
31	Deregulated Myc Requires MondoA/Mlx for Metabolic Reprogramming and Tumorigenesis. Cancer Cell, 2015, 27, 271-285.	16.8	172
32	The Retinal Pigment Epithelium Utilizes Fatty Acids for Ketogenesis. Journal of Biological Chemistry, 2014, 289, 20570-20582.	3.4	136
33	Pyruvate kinase and aspartate-glutamate carrier distributions reveal key metabolic links between neurons and glia in retina. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15579-15584.	7.1	112
34	Inhibition of Mitochondrial Pyruvate Transport by Zaprinas Causes Massive Accumulation of Aspartate at the Expense of Glutamate in the Retina. Journal of Biological Chemistry, 2013, 288, 36129-36140.	3.4	72
35	Cytosolic reducing power preserves glutamate in retina. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18501-18506.	7.1	53
36	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122

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37	Flow of energy in the outer retina in darkness and in light. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 8599-8604.	7.1	97
38	Identification of a Zebrafish Cone Photoreceptorâ€“Specific Promoter and Genetic Rescue of Achromatopsia in thenofMutant. , 2007, 48, 522.		92
39	Scotopic and Photopic Visual Thresholds and Spatial and Temporal Discrimination Evaluated by Behavior of Mice in a Water Maze. Photochemistry and Photobiology, 2006, 82, 1489-1494.	2.5	28
40	Shedding Light on Adaptation. Journal of General Physiology, 2002, 119, 125-128.	1.9	26
41	A thyroid hormone receptor that is required for the development of green cone photoreceptors. Nature Genetics, 2001, 27, 94-98.	21.4	485
42	Normal Light Response, Photoreceptor Integrity, and Rhodopsin Dephosphorylation in Mice Lacking Both Protein Phosphatases with EF Hands (PPEF-1 and PPEF-2). Molecular and Cellular Biology, 2001, 21, 8605-8614.	2.3	31
43	Functional characterization of missense mutations at codon 838 in retinal guanylate cyclase correlates with disease severity in patients with autosomal dominant cone-rod dystrophy. Human Molecular Genetics, 2000, 9, 3065-3073.	2.9	83
44	Monitoring calciumâ€“induced conformational changes in recoverin by electrospray mass spectrometry. Protein Science, 1997, 6, 843-850.	7.6	20
45	Recoverin and Ca ²⁺ in vertebrate phototransduction. Behavioral and Brain Sciences, 1995, 18, 425-428.	0.7	3
46	Recoverin, a calcium-binding protein in photoreceptors. Behavioral and Brain Sciences, 1995, 18, 497-498.	0.7	2
47	Affinities of bovine photoreceptor cGMP phosphodiesterases for rod and cone inhibitory subunits. FEBS Letters, 1993, 318, 157-161.	2.8	33