

Jianhai Du

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45
papers

1,344
citations

20
h-index

36
g-index

54
ext. papers

1,879
ext. citations

6.8
avg, IF

4.44
L-index

#	Paper	IF	Citations
45	Biochemical adaptations of the retina and retinal pigment epithelium support a metabolic ecosystem in the vertebrate eye. <i>ELife</i> , 2017 , 6,	8.9	146
44	Glucose, lactate, and shuttling of metabolites in vertebrate retinas. <i>Journal of Neuroscience Research</i> , 2015 , 93, 1079-92	4.4	127
43	Deregulated Myc requires MondoA/Mlx for metabolic reprogramming and tumorigenesis. <i>Cancer Cell</i> , 2015 , 27, 271-85	24.3	124
42	Pyruvate kinase and aspartate-glutamate carrier distributions reveal key metabolic links between neurons and glia in retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 15579-84	11.5	83
41	The retinal pigment epithelium utilizes fatty acids for ketogenesis. <i>Journal of Biological Chemistry</i> , 2014 , 289, 20570-82	5.4	81
40	Reductive carboxylation is a major metabolic pathway in the retinal pigment epithelium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 14710-14715	11.5	59
39	Phototransduction Influences Metabolic Flux and Nucleotide Metabolism in Mouse Retina. <i>Journal of Biological Chemistry</i> , 2016 , 291, 4698-710	5.4	58
38	Reprogramming metabolism by targeting sirtuin 6 attenuates retinal degeneration. <i>Journal of Clinical Investigation</i> , 2016 , 126, 4659-4673	15.9	52
37	Inhibition of mitochondrial pyruvate transport by zaprinast causes massive accumulation of aspartate at the expense of glutamate in the retina. <i>Journal of Biological Chemistry</i> , 2013 , 288, 36129-40	5.4	51
36	Human retinal pigment epithelial cells prefer proline as a nutrient and transport metabolic intermediates to the retinal side. <i>Journal of Biological Chemistry</i> , 2017 , 292, 12895-12905	5.4	48
35	Probing Metabolism in the Intact Retina Using Stable Isotope Tracers. <i>Methods in Enzymology</i> , 2015 , 561, 149-70	1.7	45
34	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	11.5	43
33	Cytosolic reducing power preserves glutamate in retina. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18501-6	11.5	41
32	Modulating GLUT1 expression in retinal pigment epithelium decreases glucose levels in the retina: impact on photoreceptors and Müller glial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2019 , 316, C121-C133	5.4	41
31	Proline mediates metabolic communication between retinal pigment epithelial cells and the retina. <i>Journal of Biological Chemistry</i> , 2019 , 294, 10278-10289	5.4	36
30	Quantitative Method to Investigate the Balance between Metabolism and Proteome Biomass: Starting from Glycine. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 15646-15650	16.4	33
29	Metabolomics method to comprehensively analyze amino acids in different domains. <i>Analyst, The</i> , 2015 , 140, 2726-34	5	31

28	Metabolic signature of the aging eye in mice. <i>Neurobiology of Aging</i> , 2018 , 71, 223-233	5.6	30
27	Metabolic Deregulation of the Blood-Outer Retinal Barrier in Retinitis Pigmentosa. <i>Cell Reports</i> , 2019 , 28, 1323-1334.e4	10.6	30
26	Abnormal mTORC1 signaling leads to retinal pigment epithelium degeneration. <i>Theranostics</i> , 2019 , 9, 1170-1180	12.1	22
25	Human macular Müller cells rely more on serine biosynthesis to combat oxidative stress than those from the periphery. <i>ELife</i> , 2019 , 8,	8.9	18
24	Cardiomyocyte GTP Cyclohydrolase 1 Protects the Heart Against Diabetic Cardiomyopathy. <i>Scientific Reports</i> , 2016 , 6, 27925	4.9	17
23	Hepatocyte-Specific Ablation or Whole-Body Inhibition of Xanthine Oxidoreductase in Mice Corrects Obesity-Induced Systemic Hyperuricemia Without Improving Metabolic Abnormalities. <i>Diabetes</i> , 2019 , 68, 1221-1229	0.9	15
22	Impact of euthanasia, dissection and postmortem delay on metabolic profile in mouse retina and RPE/choroid. <i>Experimental Eye Research</i> , 2018 , 174, 113-120	3.7	15
21	Metabolic Features of Mouse and Human Retinas: Rods versus Cones, Macula versus Periphery, Retina versus RPE. <i>IScience</i> , 2020 , 23, 101672	6.1	10
20	The retina and retinal pigment epithelium differ in nitrogen metabolism and are metabolically connected. <i>Journal of Biological Chemistry</i> , 2020 , 295, 2324-2335	5.4	10
19	Deletion of GLUT1 in mouse lens epithelium leads to cataract formation. <i>Experimental Eye Research</i> , 2018 , 172, 45-53	3.7	10
18	Deficient glucose and glutamine metabolism in knockout mice contributes to altered visual function. <i>Molecular Vision</i> , 2016 , 22, 1198-1212	2.3	9
17	Selective knockdown of hexokinase 2 in rods leads to age-related photoreceptor degeneration and retinal metabolic remodeling. <i>Cell Death and Disease</i> , 2020 , 11, 885	9.8	9
16	Flavin homeostasis in the mouse retina during aging and degeneration. <i>Journal of Nutritional Biochemistry</i> , 2018 , 62, 123-133	6.3	8
15	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	3.6	6
14	Xanthine Oxidase Drives Hemolysis and Vascular Malfunction in Sickle Cell Disease. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2021 , 41, 769-782	9.4	6
13	Effect of selectively knocking down key metabolic genes in Müller glia on photoreceptor health. <i>Glia</i> , 2021 , 69, 1966-1986	9	5
12	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,	11.5	5
11	Mutant Nmnat1 leads to a retina-specific decrease of NAD ⁺ accompanied by increased poly(ADP-ribose) in a mouse model of NMNAT1-associated retinal degeneration. <i>Human Molecular Genetics</i> , 2021 , 30, 644-657	5.6	4

10	Proline metabolism and transport in retinal health and disease. <i>Amino Acids</i> , 2021 , 53, 1789-1806	3.5	4
9	Nuclear NAD-biosynthetic enzyme NMNAT1 facilitates development and early survival of retinal neurons. <i>ELife</i> , 2021 , 10,	8.9	3
8	AMP-activated-protein kinase (AMPK) is an essential sensor and metabolic regulator of retinal neurons and their integrated metabolism with RPE		2
7	Metabolic signature of eyelid basal cell carcinoma. <i>Experimental Eye Research</i> , 2020 , 198, 108140	3.7	2
6	Metabolic features of mouse and human retinas: rods vs. cones, macula vs. periphery, retina vs. RPE		1
5	A highly conserved zebrafish IMPDH retinal isoform produces the majority of guanine and forms dynamic protein filaments in photoreceptor cells. <i>Journal of Biological Chemistry</i> , 2021 , 101441	5.4	1
4	Inhibition of Mitochondrial Respiration Impairs Nutrient Consumption and Metabolite Transport in Human Retinal Pigment Epithelium. <i>Journal of Proteome Research</i> , 2021 , 20, 909-922	5.6	1
3	Extracellular matrix dysfunction in Sorsby patient-derived retinal pigment epithelium.. <i>Experimental Eye Research</i> , 2021 , 215, 108899	3.7	0
2	Tracing Nitrogen Metabolism in Mouse Tissues with Gas Chromatography-Mass Spectrometry. <i>Bio-protocol</i> , 2021 , 11, e3925	0.9	0
1	Quantitative Method to Investigate the Balance between Metabolism and Proteome Biomass: Starting from Glycine. <i>Angewandte Chemie</i> , 2016 , 128, 15875-15879	3.6	