

Jianhai Du

List of Publications by Year in Descending Order

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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 | 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 |
| 44 | Extracellular matrix dysfunction in Sorsby patient-derived retinal pigment epithelium.. <i>Experimental Eye Research</i> , 2021 , 215, 108899 | 3.7 | 0 |
| 43 | 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 |
| 42 | Effect of selectively knocking down key metabolic genes in Müller glia on photoreceptor health. <i>Glia</i> , 2021 , 69, 1966-1986 | 9 | 5 |
| 41 | Proline metabolism and transport in retinal health and disease. <i>Amino Acids</i> , 2021 , 53, 1789-1806 | 3.5 | 4 |
| 40 | 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 |
| 39 | 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 |
| 38 | Tracing Nitrogen Metabolism in Mouse Tissues with Gas Chromatography-Mass Spectrometry. <i>Bio-protocol</i> , 2021 , 11, e3925 | 0.9 | 0 |
| 37 | 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 |
| 36 | Nuclear NAD-biosynthetic enzyme NMNAT1 facilitates development and early survival of retinal neurons. <i>ELife</i> , 2021 , 10, | 8.9 | 3 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | Metabolic signature of eyelid basal cell carcinoma. <i>Experimental Eye Research</i> , 2020 , 198, 108140 | 3.7 | 2 |
| 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 | Abnormal mTORC1 signaling leads to retinal pigment epithelium degeneration. <i>Theranostics</i> , 2019 , 9, 1170-1180 | 12.1 | 22 |
| 29 | 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 |

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| 28 | Metabolic Deregulation of the Blood-Outer Retinal Barrier in Retinitis Pigmentosa. <i>Cell Reports</i> , 2019 , 28, 1323-1334.e4 | 10.6 | 30 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | Deletion of GLUT1 in mouse lens epithelium leads to cataract formation. <i>Experimental Eye Research</i> , 2018 , 172, 45-53 | 3.7 | 10 |
| 22 | Metabolic signature of the aging eye in mice. <i>Neurobiology of Aging</i> , 2018 , 71, 223-233 | 5.6 | 30 |
| 21 | 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 |
| 20 | Flavin homeostasis in the mouse retina during aging and degeneration. <i>Journal of Nutritional Biochemistry</i> , 2018 , 62, 123-133 | 6.3 | 8 |
| 19 | 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 |
| 18 | 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 |
| 17 | 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 |
| 16 | Phototransduction Influences Metabolic Flux and Nucleotide Metabolism in Mouse Retina. <i>Journal of Biological Chemistry</i> , 2016 , 291, 4698-710 | 5.4 | 58 |
| 15 | Reprogramming metabolism by targeting sirtuin 6 attenuates retinal degeneration. <i>Journal of Clinical Investigation</i> , 2016 , 126, 4659-4673 | 15.9 | 52 |
| 14 | Deficient glucose and glutamine metabolism in knockout mice contributes to altered visual function. <i>Molecular Vision</i> , 2016 , 22, 1198-1212 | 2.3 | 9 |
| 13 | 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 |
| 12 | Quantitative Method to Investigate the Balance between Metabolism and Proteome Biomass: Starting from Glycine. <i>Angewandte Chemie</i> , 2016 , 128, 15875-15879 | 3.6 | |
| 11 | Cardiomyocyte GTP Cyclohydrolase 1 Protects the Heart Against Diabetic Cardiomyopathy. <i>Scientific Reports</i> , 2016 , 6, 27925 | 4.9 | 17 |

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| 10 | Probing Metabolism in the Intact Retina Using Stable Isotope Tracers. <i>Methods in Enzymology</i> , 2015 , 561, 149-70 | 1.7 | 45 |
| 9 | Metabolomics method to comprehensively analyze amino acids in different domains. <i>Analyst, The</i> , 2015 , 140, 2726-34 | 5 | 31 |
| 8 | Glucose, lactate, and shuttling of metabolites in vertebrate retinas. <i>Journal of Neuroscience Research</i> , 2015 , 93, 1079-92 | 4.4 | 127 |
| 7 | Deregulated Myc requires MondoA/Mlx for metabolic reprogramming and tumorigenesis. <i>Cancer Cell</i> , 2015 , 27, 271-85 | 24.3 | 124 |
| 6 | 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 |
| 5 | The retinal pigment epithelium utilizes fatty acids for ketogenesis. <i>Journal of Biological Chemistry</i> , 2014 , 289, 20570-82 | 5.4 | 81 |
| 4 | 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 |
| 3 | 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 |
| 2 | Metabolic features of mouse and human retinas: rods vs. cones, macula vs. periphery, retina vs. RPE | | 1 |
| 1 | AMP-activated-protein kinase (AMPK) is an essential sensor and metabolic regulator of retinal neurons and their integrated metabolism with RPE | | 2 |