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List of Publications by Year
in descending order

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57 papers	2,474 citations	218677 26 h-index	206112 48 g-index
60 all docs	60 docs citations	60 times ranked	2395 citing authors

#	Article	IF	Citations
1	Retinal pigment epithelium 65ÂkDa protein (RPE65): An update. Progress in Retinal and Eye Research, 2022, 88, 101013.	15.5	36
2	Structural evidence for visual arrestin priming via complexation of phosphoinositols. Structure, 2022, 30, 263-277.e5.	3.3	12
3	A large animal model of RDH5-associated retinopathy recapitulates important features of the human phenotype. Human Molecular Genetics, 2022, 31, 1263-1277.	2.9	4
4	Restoration of visual function in adult mice with an inherited retinal disease via adenine base editing. Nature Biomedical Engineering, 2021, 5, 169-178.	22.5	90
5	Pathways and disease-causing alterations in visual chromophore production for vertebrate vision. Journal of Biological Chemistry, 2021, 296, 100072.	3.4	27
6	The Structural and Biochemical Basis of Apocarotenoid Processing by Î²-Carotene Oxygenase-2. ACS Chemical Biology, 2021, 16, 480-490.	3.4	17
7	An inducible Cre mouse for studying roles of the RPE in retinal physiology and disease. JCI Insight, 2021, 6, .	5.0	10
8	Rational Alteration of Pharmacokinetics of Chiral Fluorinated and Deuterated Derivatives of Emixustat for Retinal Therapy. Journal of Medicinal Chemistry, 2021, 64, 8287-8302.	6.4	12
9	Nano-scale resolution of native retinal rod disk membranes reveals differences in lipid composition. Journal of Cell Biology, 2021, 220, .	5.2	23
10	Structure of 3-mercaptopropionic acid dioxygenase with a substrate analog reveals bidentate substrate binding at the iron center. Journal of Biological Chemistry, 2021, 296, 100492.	3.4	12
11	Function of mammalian M-cones depends on the level of CRALBP in MÃ¼ller cells. Journal of General Physiology, 2021, 153, .	1.9	9
12	Genetic Basis of De Novo Appearance of Carotenoid Ornamentation in Bare Parts of Canaries. Molecular Biology and Evolution, 2020, 37, 1317-1328.	8.9	30
13	Structural and mechanistic aspects of carotenoid cleavage dioxygenases (CCDs). Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2020, 1865, 158590.	2.4	29
14	Structural basis for carotenoid cleavage by an archaeal carotenoid dioxygenase. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19914-19925.	7.1	17
15	Shedding new light on the generation of the visual chromophore. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19629-19638.	7.1	51
16	The human mitochondrial enzyme BCO2 exhibits catalytic activity toward carotenoids and apocarotenoids. Journal of Biological Chemistry, 2020, 295, 15553-15565.	3.4	25
17	Photic generation of 11-cis-retinal in bovine retinal pigment epithelium. Journal of Biological Chemistry, 2019, 294, 19137-19154.	3.4	33
18	Evidence for distinct rate-limiting steps in the cleavage of alkenes by carotenoid cleavage dioxygenases. Journal of Biological Chemistry, 2019, 294, 10596-10606.	3.4	6

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19	Abnormal Cannabidiol Modulates Vitamin A Metabolism by Acting as a Competitive Inhibitor of CRBP1. ACS Chemical Biology, 2019, 14, 434-448.	3.4	18
20	Inhibition of the histone demethylase, KDM5B, directly induces re-expression of tumor suppressor protein HEXIM1 in cancer cells. Breast Cancer Research, 2019, 21, 138.	5.0	20
21	Conditional deletion ofDes1in the mouse retina does not impair the visual cycle in cones. FASEB Journal, 2019, 33, 5782-5792.	0.5	22
22	Insights into the pathogenesis of dominant retinitis pigmentosa associated with a D477G mutation in RPE65. Human Molecular Genetics, 2018, 27, 2225-2243.	2.9	26
23	Retinoid isomerase inhibitors impair but do not block mammalian cone photoreceptor function. Journal of General Physiology, 2018, 150, 571-590.	1.9	28
24	Structural biology of 11-cis-retinaldehyde production in the classical visual cycle. Biochemical Journal, 2018, 475, 3171-3188.	3.7	18
25	Targeting G protein-coupled receptor signaling at the G protein level with a selective nanobody inhibitor. Nature Communications, 2018, 9, 1996.	12.8	65
26	Preparation and characterization of metal-substituted carotenoid cleavage oxygenases. Journal of Biological Inorganic Chemistry, 2018, 23, 887-901.	2.6	10
27	The Biochemical Basis of Vitamin A Production from the Asymmetric Carotenoid Î²-Cryptoxanthin. ACS Chemical Biology, 2018, 13, 2121-2129.	3.4	52
28	A Combination of G Proteinâ€“Coupled Receptor Modulators Protects Photoreceptors from Degeneration. Journal of Pharmacology and Experimental Therapeutics, 2018, 364, 207-220.	2.5	20
29	Structure and Spectroscopy of Alkene-Cleaving Dioxygenases Containing an Atypically Coordinated Non-Heme Iron Center. Biochemistry, 2017, 56, 2836-2852.	2.5	23
30	Rational Tuning of Visual Cycle Modulator Pharmacodynamics. Journal of Pharmacology and Experimental Therapeutics, 2017, 362, 131-145.	2.5	19
31	Photocyclic behavior of rhodopsin induced by an atypical isomerization mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E2608-E2615.	7.1	28
32	Enzyme That Makes You Cryâ€“Crystal Structure of Lachrymatory Factor Synthase from Allium cepa. ACS Chemical Biology, 2017, 12, 2296-2304.	3.4	16
33	Reappraisal of dioxygen binding in NOV1 crystal structures. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E6027-E6028.	7.1	9
34	Retinoids and Retinal Diseases. Annual Review of Vision Science, 2016, 2, 197-234.	4.4	85
35	Ligand Binding Induces Conformational Changes in Human Cellular Retinol-binding Protein 1 (CRBP1) Revealed by Atomic Resolution Crystal Structures. Journal of Biological Chemistry, 2016, 291, 8528-8540.	3.4	41
36	Key Residues for Catalytic Function and Metal Coordination in a Carotenoid Cleavage Dioxygenase. Journal of Biological Chemistry, 2016, 291, 19401-19412.	3.4	25

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37	Eyes on systems pharmacology. Pharmacological Research, 2016, 114, 39-41.	7.1	39
38	Synergistically acting agonists and antagonists of G proteinâ€“coupled receptors prevent photoreceptor cell degeneration. Science Signaling, 2016, 9, ra74.	3.6	33
39	The Biochemical Basis of Vitamin A₃ Production in Arthropod Vision. ACS Chemical Biology, 2016, 11, 1049-1057.	3.4	27
40	Involvement of Endoplasmic Reticulum Stress in TULP1 Induced Retinal Degeneration. PLoS ONE, 2016, 11, e0151806.	2.5	22
41	Utilization of Dioxygen by Carotenoid Cleavage Oxygenases. Journal of Biological Chemistry, 2015, 290, 30212-30223.	3.4	48
42	Catalytic mechanism of a retinoid isomerase essential for vertebrate vision. Nature Chemical Biology, 2015, 11, 409-415.	8.0	66
43	Characterization of the Role of Î²-Carotene 9,10-Dioxygenase in Macular Pigment Metabolism. Journal of Biological Chemistry, 2015, 290, 24844-24857.	3.4	59
44	LRAT-specific domain facilitates vitamin A metabolism by domain swapping in HRASLS3. Nature Chemical Biology, 2015, 11, 26-32.	8.0	49
45	Molecular pharmacodynamics of emixustat in protection against retinal degeneration. Journal of Clinical Investigation, 2015, 125, 2781-2794.	8.2	59
46	Analysis of Carotenoid Isomerase Activity in a Prototypical Carotenoid Cleavage Enzyme, Apocarotenoid Oxygenase (ACO). Journal of Biological Chemistry, 2014, 289, 12286-12299.	3.4	27
47	Identification and Characterization of Novel Inhibitors of Mammalian Aspartyl Aminopeptidase. Molecular Pharmacology, 2014, 86, 231-242.	2.3	11
48	Chemistry of the Retinoid (Visual) Cycle. Chemical Reviews, 2014, 114, 194-232.	47.7	285
49	Structural basis of carotenoid cleavage: From bacteria to mammals. Archives of Biochemistry and Biophysics, 2013, 539, 203-213.	3.0	119
50	Structure of RPE65 isomerase in a lipidic matrix reveals roles for phospholipids and iron in catalysis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E2747-56.	7.1	58
51	Key enzymes of the retinoid (visual) cycle in vertebrate retina. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2012, 1821, 137-151.	2.4	141
52	Membrane-binding and enzymatic properties of RPE65. Progress in Retinal and Eye Research, 2010, 29, 428-442.	15.5	55
53	The biochemical and structural basis for trans-to-cis isomerization of retinoids in the chemistry of vision. Trends in Biochemical Sciences, 2010, 35, 400-410.	7.5	105
54	Importance of Membrane Structural Integrity for RPE65 Retinoid Isomerization Activity. Journal of Biological Chemistry, 2010, 285, 9667-9682.	3.4	57

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55	Crystal structure of native RPE65, the retinoid isomerase of the visual cycle. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17325-17330.	7.1	140
56	Metabolic Basis of Visual Cycle Inhibition by Retinoid and Nonretinoid Compounds in the Vertebrate Retina. Journal of Biological Chemistry, 2008, 283, 9543-9554.	3.4	85
57	Purification, crystallization and structure determination of native GroEL fromEscherichia colilacking bound potassium ions. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 457-461.	0.7	15