Krzysztof Palczewski

List of Publications by Year
in descending order

438 papers	31,847 citations	2538 96 h-index	6979 154 g-index
449 all docs	449 docs citations	449 times ranked	16934 citing authors

#	Article	IF	Citations
1	Structural evidence for visual arrestin priming via complexation of phosphoinositols. Structure, 2022, 30, 263-277.e5.	1.6	12
2	A large animal model of <i>RDH5</i>-associated retinopathy recapitulates important features of the human phenotype. Human Molecular Genetics, 2022, 31, 1263-1277.	1.4	4
3	MicroRNA regulation of critical retinal pigment epithelial functions. Trends in Neurosciences, 2022, 45, 78-90.	4.2	15
4	In vivo imaging of the human eye using a 2-photon-excited fluorescence scanning laser ophthalmoscope. Journal of Clinical Investigation, 2022, 132, .	3.9	18
5	Inhibition of ceramide accumulation in AdipoR1â€“/â€“ mice increases photoreceptor survival and improves vision. JCI Insight, 2022, 7, .	2.3	12
6	Engineered virus-like particles for efficient inÂ vivo delivery of therapeutic proteins. Cell, 2022, 185, 250-265.e16.	13.5	251
7	VCP/p97 inhibitor CB-5083 modulates muscle pathology in a mouse model of VCP inclusion body myopathy. Journal of Translational Medicine, 2022, 20, 21.	1.8	6
8	Capturing a rhodopsin receptor signalling cascade across a native membrane. Nature, 2022, 604, 384-390.	13.7	41
9	In vivo base editing rescues cone photoreceptors in a mouse model of early-onset inherited retinal degeneration. Nature Communications, 2022, 13, 1830.	5.8	42
10	Regenerating Skeletal Muscle Compensates for the Impaired Macrophage Functions Leading to Normal Muscle Repair in Retinol Saturase Null Mice. Cells, 2022, 11, 1333.	1.8	3
11	Stabilization of Metaâ€ł Rhodopsin Conformation by a Nanobody. FASEB Journal, 2022, 36, .	0.2	0
12	Two-photon excited fluorescence scanning laser ophthalmoscope for in vivo imaging of the human eye. , 2022, , .		0
13	Retinoids in the visual cycle: role of the retinal G protein-coupled receptor. Journal of Lipid Research, 2021, 62, 100040.	2.0	38
14	Restoration of visual function in adult mice with an inherited retinal disease via adenine base editing. Nature Biomedical Engineering, 2021, 5, 169-178.	11.6	90
15	Pathways and disease-causing alterations in visual chromophore production for vertebrate vision. Journal of Biological Chemistry, 2021, 296, 100072.	1.6	27
16	Formulation and efficacy of ECO/pRHO-ABCA4-SV40 nanoparticles for nonviral gene therapy of Stargardt disease in a mouse model. Journal of Controlled Release, 2021, 330, 329-340.	4.8	15
17	An inducible Cre mouse for studying roles of the RPE in retinal physiology and disease. JCI Insight, 2021, 6, .	2.3	10
18	Peptide Derivatives of Retinylamine Prevent Retinal Degeneration with Minimal Side Effects on Vision in Mice. Bioconjugate Chemistry, 2021, 32, 572-583.	1.8	4

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19	A p97/Valosin-Containing Protein Inhibitor Drug CB-5083 Has a Potent but Reversible Off-Target Effect on Phosphodiesterase-6. Journal of Pharmacology and Experimental Therapeutics, 2021, 378, 31-41.	1.3	17
20	Rational Alteration of Pharmacokinetics of Chiral Fluorinated and Deuterated Derivatives of Emixustat for Retinal Therapy. Journal of Medicinal Chemistry, 2021, 64, 8287-8302.	2.9	12
21	Nano-scale resolution of native retinal rod disk membranes reveals differences in lipid composition. Journal of Cell Biology, 2021, 220, .	2.3	23
22	Regulation of Adrenergic, Serotonin, and Dopamine Receptors to Inhibit Diabetic Retinopathy: Monotherapies versus Combination Therapies. Molecular Pharmacology, 2021, 100, 470-479.	1.0	6
23	New focus on regulation of the rod photoreceptor phosphodiesterase. Current Opinion in Structural Biology, 2021, 69, 99-107.	2.6	6
24	Theoretical Study of the Photoisomerization Mechanism of All-<i>Trans</i>-Retinyl Acetate. Journal of Physical Chemistry A, 2021, 125, 8358-8372.	1.1	1
25	Function of mammalian M-cones depends on the level of CRALBP in MÃ¼ller cells. Journal of General Physiology, 2021, 153, .	0.9	9
26	Two-photon microperimetry with picosecond pulses. Biomedical Optics Express, 2021, 12, 462.	1.5	8
27	THE LOSS OF INFRARED LIGHT SENSITIVITY OF PHOTORECEPTOR CELLS MEASURED WITH TWO-PHOTON EXCITATION AS AN INDICATOR OF DIABETIC RETINOPATHY. Retina, 2021, 41, 1302-1308.	1.0	9
28	Identification of small-molecule allosteric modulators that act as enhancers/disrupters of rhodopsin oligomerization. Journal of Biological Chemistry, 2021, 297, 101401.	1.6	5
29	Determinants shaping the nanoscale architecture of the mouse rod outer segment. ELife, 2021, 10, .	2.8	25
30	Straightforward Access to Terminally Disubstituted Electronâ€Deficient Alkylidene Cyclopentâ€2â€enâ€4â€ones through Olefination with Î±â€Carbonyl and Î±â€Cyano Secondary Alkyl Sulfones. European Journal of Organic Chemistry, 2021, 2021, 6725-6736.	1.2	0
31	Non-viral Gene Therapy for Stargardt Disease with ECO/pRHO-ABCA4 Self-Assembled Nanoparticles. Molecular Therapy, 2020, 28, 293-303.	3.7	32
32	Development of chiral fluorinated alkyl derivatives of emixustat as drug candidates for the treatment of retinal degenerative diseases. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 127421.	1.0	0
33	Epigenetic hallmarks of age-related macular degeneration are recapitulated in a photosensitive mouse model. Human Molecular Genetics, 2020, 29, 2611-2624.	1.4	10
34	Clinical Application of Infrared-Light Microperimetry in the Assessment of Scotopic-Eye Sensitivity. Translational Vision Science and Technology, 2020, 9, 7.	1.1	9
35	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.	3.3	51
36	Single particle cryoâ€EM of the complex between interphotoreceptor retinoidâ€binding protein and a monoclonal antibody. FASEB Journal, 2020, 34, 13918-13934.	0.2	6

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37	Noninvasive two-photon optical biopsy of retinal fluorophores. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22532-22543.	3.3	25
38	PAR4 activation involves extracellular loop 3 and transmembrane residue Thr153. Blood, 2020, 136, 2217-2228.	0.6	22
39	PCARE and WASF3 regulate ciliary F-actin assembly that is required for the initiation of photoreceptor outer segment disk formation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 9922-9931.	3.3	58
40	Stable Retinoid Analogue Targeted Dual pH-Sensitive Smart Lipid ECO/<i>pDNA</i> Nanoparticles for Specific Gene Delivery in the Retinal Pigment Epithelium. ACS Applied Bio Materials, 2020, 3, 3078-3086.	2.3	11
41	Melanopsin Carboxy-terminus phosphorylation plasticity and bulk negative charge, not strict site specificity, achieves phototransduction deactivation. PLoS ONE, 2020, 15, e0228121.	1.1	9
42	Homeostatic plasticity in the retina is associated with maintenance of night vision during retinal degenerative disease. ELife, 2020, 9, .	2.8	31
43	Title is missing!. , 2020, 15, e0228121.		0
44	Title is missing!. , 2020, 15, e0228121.		0
45	Title is missing!. , 2020, 15, e0228121.		0
46	Title is missing!. , 2020, 15, e0228121.		0
47	Cryo-EM structure of the native rhodopsin dimer in nanodiscs. Journal of Biological Chemistry, 2019, 294, 14215-14230.	1.6	64
48	Tissue- and Species-Specific Patterns of RNA metabolism in Post-Mortem Mammalian Retina and Retinal Pigment Epithelium. Scientific Reports, 2019, 9, 14821.	1.6	9
49	Photic generation of 11-cis-retinal in bovine retinal pigment epithelium. Journal of Biological Chemistry, 2019, 294, 19137-19154.	1.6	33
50	<i>Z</i>-isomerization of retinoids through combination of monochromatic photoisomerization and metal catalysis. Organic and Biomolecular Chemistry, 2019, 17, 8125-8139.	1.5	8
51	Sensitivity of Mammalian Cone Photoreceptors to Infrared Light. Neuroscience, 2019, 416, 100-108.	1.1	9
52	Retinal Gene Distribution and Functionality Implicated in Inherited Retinal Degenerations Can Reveal Disease-Relevant Pathways for Pharmacologic Intervention. Pharmaceuticals, 2019, 12, 74.	1.7	5
53	Stereospecific modulation of dimeric rhodopsin. FASEB Journal, 2019, 33, 9526-9539.	0.2	6
54	Catalytic synthesis of 9-cis-retinoids: mechanistic insights. Dalton Transactions, 2019, 48, 10581-10595.	1.6	6

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55	The selective estrogen receptor modulator raloxifene mitigates the effect of all-trans-retinal toxicity in photoreceptor degeneration. Journal of Biological Chemistry, 2019, 294, 9461-9475.	1.6	11
56	Transducin1, Phototransduction and the Development of Early Diabetic Retinopathy. , 2019, 60, 1538.		43
57	Cryo-EM structure of phosphodiesterase 6 reveals insights into the allosteric regulation of type I phosphodiesterases. Science Advances, 2019, 5, eaav4322.	4.7	34
58	A Mixture of U.S. Food and Drug Administrationâ€"Approved Monoaminergic Drugs Protects the Retina From Light Damage in Diverse Models of Night Blindness. , 2019, 60, 1442.		11
59	Human red and green cone opsins are O-glycosylated at an N-terminal Ser/Thrâ€"rich domain conserved in vertebrates. Journal of Biological Chemistry, 2019, 294, 8123-8133.	1.6	10
60	Specificity of the chromophore-binding site in human cone opsins. Journal of Biological Chemistry, 2019, 294, 6082-6093.	1.6	11
61	Retinol Saturase Knock-Out Mice are Characterized by Impaired Clearance of Apoptotic Cells and Develop Mild Autoimmunity. Biomolecules, 2019, 9, 737.	1.8	9
62	Apo-Opsin Exists in Equilibrium Between a Predominant Inactive and a Rare Highly Active State. Journal of Neuroscience, 2019, 39, 212-223.	1.7	13
63	MÃ¼ller glia phagocytose dead photoreceptor cells in a mouse model of retinal degenerative disease. FASEB Journal, 2019, 33, 3680-3692.	0.2	51
64	Conditional deletion of<i>Des1</i>in the mouse retina does not impair the visual cycle in cones. FASEB Journal, 2019, 33, 5782-5792.	0.2	22
65	Noninvasive Two-Photon Microscopy Imaging of Mouse Retina and Retinal Pigment Epithelium. Methods in Molecular Biology, 2019, 1834, 333-343.	0.4	5
66	Two-photon microperimetry: sensitivity of human photoreceptors to infrared light. Biomedical Optics Express, 2019, 10, 4551.	1.5	21
67	Immuno-TEM/STEM in Retinal Research. Methods in Molecular Biology, 2019, 1834, 311-332.	0.4	0
68	Human aging and disease: Lessons from age-related macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2866-2872.	3.3	59
69	Insights into the pathogenesis of dominant retinitis pigmentosa associated with a D477G mutation in RPE65. Human Molecular Genetics, 2018, 27, 2225-2243.	1.4	26
70	Retinal-chitosan Conjugates Effectively Deliver Active Chromophores to Retinal Photoreceptor Cells in Blind Mice and Dogs. Molecular Pharmacology, 2018, 93, 438-452.	1.0	15
71	Increasing the Stability of Recombinant Human Green Cone Pigment. Biochemistry, 2018, 57, 1022-1030.	1.2	7
72	Retinoid isomerase inhibitors impair but do not block mammalian cone photoreceptor function. Journal of General Physiology, 2018, 150, 571-590.	0.9	28

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73	Structural biology of 11-<i>cis-</i>retinaldehyde production in the classical visual cycle. Biochemical Journal, 2018, 475, 3171-3188.	1.7	18
74	New GABA modulators protect photoreceptor cells from lightâ€induced degeneration in mouse models. FASEB Journal, 2018, 32, 3289-3300.	0.2	14
75	A novel small molecule chaperone of rod opsin and its potential therapy for retinal degeneration. Nature Communications, 2018, 9, 1976.	5.8	48
76	Targeting G protein-coupled receptor signaling at the G protein level with a selective nanobody inhibitor. Nature Communications, 2018, 9, 1996.	5.8	65
77	A Small Chaperone Improves Folding and Routing of Rhodopsin Mutants Linked to Inherited Blindness. IScience, 2018, 4, 1-19.	1.9	50
78	Exploring a new ligand binding site of G protein-coupled receptors. Chemical Science, 2018, 9, 6480-6489.	3.7	37
79	Protective Effect of a Locked Retinal Chromophore Analog against Light-Induced Retinal Degeneration. Molecular Pharmacology, 2018, 94, 1132-1144.	1.0	15
80	A Combination of G Proteinâ€"Coupled Receptor Modulators Protects Photoreceptors from Degeneration. Journal of Pharmacology and Experimental Therapeutics, 2018, 364, 207-220.	1.3	20
81	Two-photon imaging of the mammalian retina with ultrafast pulsing laser. JCI Insight, 2018, 3, .	2.3	24
82	An Expedient Synthesis of CMF-019: (S)-5-Methyl-3-{1-(pentan-3-yl)-2-(thiophen-2-ylmethyl)-1H-benzo[d]imidazole-5-carboxamido}hexanoic Acid, a Potent Apelin Receptor (APJ) Agonist. Medicinal Chemistry, 2018, 14, 688-694.	0.7	10
83	Rescue of mutant rhodopsin traffic by metformin-induced AMPK activation accelerates photoreceptor degeneration. Human Molecular Genetics, 2017, 26, ddw387.	1.4	39
84	MicroRNA-processing Enzymes Are Essential for Survival and Function of Mature Retinal Pigmented Epithelial Cells in Mice. Journal of Biological Chemistry, 2017, 292, 3366-3378.	1.6	22
85	Epi-direction detected multimodal imaging of an unstained mouse retina with a Yb-fiber laser. , 2017, 10069, .		0
86	Hydrogen/Deuterium Exchange Mass Spectrometry of Human Green Opsin Reveals a Conserved Pro-Pro Motif in Extracellular Loop 2 of Monostable Visual G Protein-Coupled Receptors. Biochemistry, 2017, 56, 2338-2348.	1.2	8
87	Structure and Spectroscopy of Alkene-Cleaving Dioxygenases Containing an Atypically Coordinated Non-Heme Iron Center. Biochemistry, 2017, 56, 2836-2852.	1.2	23
88	Rational Tuning of Visual Cycle Modulator Pharmacodynamics. Journal of Pharmacology and Experimental Therapeutics, 2017, 362, 131-145.	1.3	19
89	Targeted Multifunctional Lipid ECO Plasmid DNA Nanoparticles as Efficient Non-viral Gene Therapy for Leberâ€™s Congenital Amaurosis. Molecular Therapy - Nucleic Acids, 2017, 7, 42-52.	2.3	35
90	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.	3.3	28

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91	Quantitative phosphoproteomics reveals involvement of multiple signaling pathways in early phagocytosis by the retinal pigmented epithelium. Journal of Biological Chemistry, 2017, 292, 19826-19839.	1.6	17
92	Dephosphorylation by protein phosphatase 2A regulates visual pigment regeneration and the dark adaptation of mammalian photoreceptors. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E9675-E9684.	3.3	11
93	Designing Safer Analgesics via Î¼-Opioid Receptor Pathways. Trends in Pharmacological Sciences, 2017, 38, 1016-1037.	4.0	53
94	Skunkworks project for Big Pharma. Pharmacological Research, 2017, 124, 167-168.	3.1	1
95	Photoreceptor cells produce inflammatory products that contribute to retinal vascular permeability in a mouse model of diabetes. Diabetologia, 2017, 60, 2111-2120.	2.9	63
96	Crowd sourcing difficult problems in protein science[*]. Protein Science, 2017, 26, 2118-2125.	3.1	1
97	Complex binding pathways determine the regeneration of mammalian green cone opsin with a locked retinal analogue. Journal of Biological Chemistry, 2017, 292, 10983-10997.	1.6	11
98	The role of retinol dehydrogenase 10 in the cone visual cycle. Scientific Reports, 2017, 7, 2390.	1.6	15
99	A G Protein-Coupled Receptor Dimerization Interface in Human Cone Opsins. Biochemistry, 2017, 56, 61-72.	1.2	22
100	Transcriptome profiling of NIH3T3 cell lines expressing opsin and the P23H opsin mutant identifies candidate drugs for the treatment of retinitis pigmentosa. Pharmacological Research, 2017, 115, 1-13.	3.1	7
101	Context-dependent compensation among phosphatidylserine-recognition receptors. Scientific Reports, 2017, 7, 14623.	1.6	23
102	Multimodal nonlinear optical imaging of unstained retinas in the epi-direction with a sub-40 fs Yb-fiber laser. Biomedical Optics Express, 2017, 8, 5228.	1.5	12
103	Towards Treatment of Stargardt Disease: Workshop Organized and Sponsored by the Foundation Fighting Blindness. Translational Vision Science and Technology, 2017, 6, 6.	1.1	44
104	Formation and Clearance of All-Trans-Retinol in Rods Investigated in the Living Primate Eye With Two-Photon Ophthalmoscopy. , 2017, 58, 604.		23
105	Photoreceptor Cells Influence Retinal Vascular Degeneration in Mouse Models of Retinal Degeneration and Diabetes. , 2016, 57, 4272.		55
106	Two-Photon Autofluorescence Imaging Reveals Cellular Structures Throughout the Retina of the Living Primate Eye. , 2016, 57, 632.		56
107	In Vivo Two-Photon Fluorescence Kinetics of Primate Rods and Cones. , 2016, 57, 647.		33
108	Image registration and averaging of low laser power two-photon fluorescence images of mouse retina. Biomedical Optics Express, 2016, 7, 2671.	1.5	19

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109	Safety assessment in macaques of light exposures for functional two-photon ophthalmoscopy in humans. Biomedical Optics Express, 2016, 7, 5148.	1.5	26
110	Mechanistic Studies on the Stereoselectivity of the Serotonin 5â€HT_{1A} Receptor. Angewandte Chemie - International Edition, 2016, 55, 8661-8665.	7.2	27
111	Mechanistic Studies on the Stereoselectivity of the Serotonin 5â€HT_{1A} Receptor. Angewandte Chemie, 2016, 128, 8803-8807.	1.6	2
112	Receptor MER Tyrosine Kinase Proto-oncogene (MERTK) Is Not Required for Transfer of Bis-retinoids to the Retinal Pigmented Epithelium. Journal of Biological Chemistry, 2016, 291, 26937-26949.	1.6	17
113	Retinoids and Retinal Diseases. Annual Review of Vision Science, 2016, 2, 197-234.	2.3	85
114	Conformational Change of Human Checkpoint Kinase 1 (Chk1) Induced by DNA Damage. Journal of Biological Chemistry, 2016, 291, 12951-12959.	1.6	18
115	A small molecule mitigates hearing loss in a mouse model of Usher syndrome III. Nature Chemical Biology, 2016, 12, 444-451.	3.9	43
116	Key Residues for Catalytic Function and Metal Coordination in a Carotenoid Cleavage Dioxygenase. Journal of Biological Chemistry, 2016, 291, 19401-19412.	1.6	25
117	Eyes on systems pharmacology. Pharmacological Research, 2016, 114, 39-41.	3.1	39
118	Dynamic peptides of human TPP1 fulfill diverse functions in telomere maintenance. Nucleic Acids Research, 2016, 44, gkw846.	6.5	10
119	Structure and Function of G-Protein-Coupled Receptor Kinases 1 and 7. Methods in Pharmacology and Toxicology, 2016, , 25-43.	0.1	3
120	The Molecular Mechanism of P2Y₁ Receptor Activation. Angewandte Chemie, 2016, 128, 10487-10491.	1.6	2
121	The Molecular Mechanism of P2Y₁ Receptor Activation. Angewandte Chemie - International Edition, 2016, 55, 10331-10335.	7.2	49
122	Transcriptome analysis reveals rod/cone photoreceptor specific signatures across mammalian retinas. Human Molecular Genetics, 2016, 25, ddw268.	1.4	36
123	Synergistically acting agonists and antagonists of G proteinâ€“coupled receptors prevent photoreceptor cell degeneration. Science Signaling, 2016, 9, ra74.	1.6	33
124	Structural Insights into the <i>Drosophila melanogaster</i> Retinol Dehydrogenase, a Member of the Short-Chain Dehydrogenase/Reductase Family. Biochemistry, 2016, 55, 6545-6557.	1.2	19
125	Dominant and recessive mutations in rhodopsin activate different cell death pathways. Human Molecular Genetics, 2016, 25, ddw137.	1.4	41
126	Lecithin:Retinol Acyltransferase: A Key Enzyme Involved in the Retinoid (visual) Cycle. Biochemistry, 2016, 55, 3082-3091.	1.2	23

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127	An effective thiol-reactive probe for differential scanning fluorimetry with a standard real-time polymerase chain reaction device. Analytical Biochemistry, 2016, 499, 63-65.	1.1	29
128	The Biochemical Basis of Vitamin A₃ Production in Arthropod Vision. ACS Chemical Biology, 2016, 11, 1049-1057.	1.6	27
129	The impact of microRNA gene regulation on the survival and function of mature cell types in the eye. FASEB Journal, 2016, 30, 23-33.	0.2	39
130	Systems Pharmacology Links GPCRs with Retinal Degenerative Disorders. Annual Review of Pharmacology and Toxicology, 2016, 56, 273-298.	4.2	24
131	The Mechanism of Ligandâ€Induced Activation or Inhibition of Î¼â€•and Îºâ€Opioid Receptors. Angewandte Chemie - International Edition, 2015, 54, 7560-7563.	7.2	47
132	Retinol dehydrogenase 8 and ATPâ€binding cassette transporter 4 modulate dark adaptation of Mâ€cones in mammalian retina. Journal of Physiology, 2015, 593, 4923-4941.	1.3	12
133	Manganese-Enhanced MRI for Preclinical Evaluation of Retinal Degeneration Treatments. , 2015, 56, 4936.		13
134	A High-Throughput Drug Screening Strategy for Detecting Rhodopsin P23H Mutant Rescue and Degradation. , 2015, 56, 2553.		17
135	Utilization of Dioxygen by Carotenoid Cleavage Oxygenases. Journal of Biological Chemistry, 2015, 290, 30212-30223.	1.6	48
136	Conditional Ablation of Retinol Dehydrogenase 10 in the Retinal Pigmented Epithelium Causes Delayed Dark Adaption in Mice. Journal of Biological Chemistry, 2015, 290, 27239-27247.	1.6	19
137	Adrenergic and serotonin receptors affect retinal superoxide generation in diabetic mice: relationship to capillary degeneration and permeability. FASEB Journal, 2015, 29, 2194-2204.	0.2	45
138	Animals deficient in C2Orf71, an autosomal recessive retinitis pigmentosa-associated locus, develop severe early-onset retinal degeneration. Human Molecular Genetics, 2015, 24, 2627-2640.	1.4	21
139	Isotopic labeling of mammalian G protein-coupled receptors heterologously expressed in Caenorhabditis elegans. Analytical Biochemistry, 2015, 472, 30-36.	1.1	7
140	Protein misfolding and the pathogenesis of ABCA4-associated retinal degenerations. Human Molecular Genetics, 2015, 24, 3220-3237.	1.4	69
141	Expansion of First-in-Class Drug Candidates That Sequester Toxic All-<i>Trans</i>-Retinal and Prevent Light-Induced Retinal Degeneration. Molecular Pharmacology, 2015, 87, 477-491.	1.0	19
142	Improvement in vision: a new goal for treatment of hereditary retinal degenerations. Expert Opinion on Orphan Drugs, 2015, 3, 563-575.	0.5	23
143	Prolonged prevention of retinal degeneration with retinylamine loaded nanoparticles. Biomaterials, 2015, 44, 103-110.	5.7	20
144	Catalytic mechanism of a retinoid isomerase essential for vertebrate vision. Nature Chemical Biology, 2015, 11, 409-415.	3.9	66

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145	Crystallization of Proteins from Crude Bovine Rod Outer Segments. Methods in Enzymology, 2015, 557, 439-458.	0.4	8
146	Periscope for noninvasive two-photon imaging of murine retina in vivo. Biomedical Optics Express, 2015, 6, 3352.	1.5	23
147	Semi-automated discrimination of retinal pigmented epithelial cells in two-photon fluorescence images of mouse retinas. Biomedical Optics Express, 2015, 6, 3032.	1.5	2
148	Selfâ€Assembly of a Multifunctional Lipid With Coreâ€"Shell Dendrimer DNA Nanoparticles Enhanced Efficient Gene Delivery at Low Charge Ratios into RPE Cells. Macromolecular Bioscience, 2015, 15, 1663-1672.	2.1	30
149	Serum levels of lipid metabolites in ageâ€related macular degeneration. FASEB Journal, 2015, 29, 4579-4588.	0.2	19
150	Di-retinoid-pyridinium-ethanolamine (A2E) Accumulation and the Maintenance of the Visual Cycle Are Independent of Atg7-mediated Autophagy in the Retinal Pigmented Epithelium. Journal of Biological Chemistry, 2015, 290, 29035-29044.	1.6	31
151	Retinylamine Benefits Early Diabetic Retinopathy in Mice. Journal of Biological Chemistry, 2015, 290, 21568-21579.	1.6	44
152	Disruption of Rhodopsin Dimerization with Synthetic Peptides Targeting an Interaction Interface. Journal of Biological Chemistry, 2015, 290, 25728-25744.	1.6	71
153	Advances in understanding the molecular basis of the first steps in color vision. Progress in Retinal and Eye Research, 2015, 49, 46-66.	7.3	39
154	LRAT-specific domain facilitates vitamin A metabolism by domain swapping in HRASLS3. Nature Chemical Biology, 2015, 11, 26-32.	3.9	49
155	Robust Endoplasmic Reticulum-Associated Degradation of Rhodopsin Precedes Retinal Degeneration. Molecular Neurobiology, 2015, 52, 679-695.	1.9	119
156	The G Protein-Coupled Receptor Rhodopsin: A Historical Perspective. Methods in Molecular Biology, 2015, 1271, 3-18.	0.4	16
157	Molecular pharmacodynamics of emixustat in protection against retinal degeneration. Journal of Clinical Investigation, 2015, 125, 2781-2794.	3.9	59
158	R9AP Overexpression Alters Phototransduction Kinetics in iCre75 Mice. , 2014, 55, 1339.		16
159	Endogenous Fluorophores Enable Two-Photon Imaging of the Primate Eye. , 2014, 55, 4438.		33
160	Chemistry and Biology of the Initial Steps in Vision: The Friedenwald Lecture. , 2014, 55, 6651.		51
161	Analysis of Carotenoid Isomerase Activity in a Prototypical Carotenoid Cleavage Enzyme, Apocarotenoid Oxygenase (ACO). Journal of Biological Chemistry, 2014, 289, 12286-12299.	1.6	27
162	Human infrared vision is triggered by two-photon chromophore isomerization. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5445-54.	3.3	80

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163	Multifunctional PEG Retinylamine Conjugate Provides Prolonged Protection against Retinal Degeneration in Mice. Biomacromolecules, 2014, 15, 4570-4578.	2.6	10
164	Structural Insights into Activation of the Retinal L-type Ca2+ Channel (Cav1.4) by Ca2+-binding Protein 4 (CaBP4). Journal of Biological Chemistry, 2014, 289, 31262-31273.	1.6	12
165	STRA6 is critical for cellular vitamin A uptake and homeostasis. Human Molecular Genetics, 2014, 23, 5402-5417.	1.4	92
166	Two-photon microscopy reveals early rod photoreceptor cell damage in light-exposed mutant mice. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1428-37.	3.3	57
167	Identification and Characterization of Novel Inhibitors of Mammalian Aspartyl Aminopeptidase. Molecular Pharmacology, 2014, 86, 231-242.	1.0	11
168	The macular degeneration-linked C1QTNF5 (S163) mutation causes higher-order structural rearrangements. Journal of Structural Biology, 2014, 186, 86-94.	1.3	18
169	Chemistry of the Retinoid (Visual) Cycle. Chemical Reviews, 2014, 114, 194-232.	23.0	285
170	Human Cellular Retinaldehyde-Binding Protein Has Secondary Thermal 9-<i>cis</i>-Retinal Isomerase Activity. Journal of the American Chemical Society, 2014, 136, 137-146.	6.6	15
171	Inherent Instability of the Retinitis Pigmentosa P23H Mutant Opsin. Journal of Biological Chemistry, 2014, 289, 9288-9303.	1.6	48
172	DICER1 is essential for survival of postmitotic rod photoreceptor cells in mice. FASEB Journal, 2014, 28, 3780-3791.	0.2	54
173	Argonaute High-Throughput Sequencing of RNAs Isolated by Cross-Linking Immunoprecipitation Reveals a Snapshot of miRNA Gene Regulation in the Mammalian Retina. Biochemistry, 2014, 53, 5831-5833.	1.2	4
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