

Yoshikazu Imanishi

List of Publications by Year in descending order

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56
papers

3,646
citations

147801

31
h-index

168389

53
g-index

58
all docs

58
docs citations

58
times ranked

3305
citing authors

#	ARTICLE	IF	CITATIONS
1	Lecithin-retinol Acyltransferase Is Essential for Accumulation of All-trans-Retinyl Esters in the Eye and in the Liver. <i>Journal of Biological Chemistry</i> , 2004, 279, 10422-10432.	3.4	321
2	Essential role of Ca ²⁺ -binding protein 4, a Cav1.4 channel regulator, in photoreceptor synaptic function. <i>Nature Neuroscience</i> , 2004, 7, 1079-1087.	14.8	272
3	Noninvasive two-photon imaging reveals retinyl ester storage structures in the eye. <i>Journal of Cell Biology</i> , 2004, 164, 373-383.	5.2	192
4	Pharmacological Chaperone-mediated in Vivo Folding and Stabilization of the P23H-opsin Mutant Associated with Autosomal Dominant Retinitis Pigmentosa. <i>Journal of Biological Chemistry</i> , 2003, 278, 14442-14450.	3.4	183
5	Dual-substrate Specificity Short Chain Retinol Dehydrogenases from the Vertebrate Retina. <i>Journal of Biological Chemistry</i> , 2002, 277, 45537-45546.	3.4	179
6	RBP4 Disrupts Vitamin A Uptake Homeostasis in a STRA6-Deficient Animal Model for Matthew-Wood Syndrome. <i>Cell Metabolism</i> , 2008, 7, 258-268.	16.2	163
7	Calcium-Binding Proteins: Intracellular Sensors from the Calmodulin Superfamily. <i>Biochemical and Biophysical Research Communications</i> , 2002, 290, 615-623.	2.1	149
8	Role of Photoreceptor-specific Retinol Dehydrogenase in the Retinoid Cycle in Vivo. <i>Journal of Biological Chemistry</i> , 2005, 280, 18822-18832.	3.4	139
9	Rhodopsin phosphorylation: 30 years later. <i>Progress in Retinal and Eye Research</i> , 2003, 22, 417-434.	15.5	138
10	Pharmacological and rAAV Gene Therapy Rescue of Visual Functions in a Blind Mouse Model of Leber Congenital Amaurosis. <i>PLoS Medicine</i> , 2005, 2, e333.	8.4	120
11	Diversity of Guanylate Cyclase-Activating Proteins (GCAPs) in Teleost Fish: Characterization of Three Novel GCAPs (GCAP4, GCAP5, GCAP7) from Zebrafish (<i>Danio rerio</i>) and Prediction of Eight GCAPs (GCAP1-8) in Pufferfish (<i>Fugu rubripes</i>). <i>Journal of Molecular Evolution</i> , 2004, 59, 204-217.	1.8	98
12	Retinol Dehydrogenase (RDH12) Protects Photoreceptors from Light-induced Degeneration in Mice. <i>Journal of Biological Chemistry</i> , 2006, 281, 37697-37704.	3.4	98
13	Characterization of retinal guanylate cyclase-activating protein 3 (GCAP3) from zebrafish to man. <i>European Journal of Neuroscience</i> , 2002, 15, 63-78.	2.6	95
14	A novel subtype of G-protein-coupled receptor kinase, GRK7, in teleost cone photoreceptors. <i>FEBS Letters</i> , 1998, 424, 159-164.	2.8	94
15	Retinosomes. <i>Journal of Cell Biology</i> , 2004, 166, 447-453.	5.2	94
16	Identification of All-trans-Retinol:All-trans-13,14-dihydroretinol Saturase. <i>Journal of Biological Chemistry</i> , 2004, 279, 50230-50242.	3.4	89
17	Effects of Potent Inhibitors of the Retinoid Cycle on Visual Function and Photoreceptor Protection from Light Damage in Mice. <i>Molecular Pharmacology</i> , 2006, 70, 1220-1229.	2.3	82
18	Noninvasive multiphoton fluorescence microscopy resolves retinol and retinal condensation products in mouse eyes. <i>Nature Medicine</i> , 2010, 16, 1444-1449.	30.7	78

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19	Usher syndrome IIIA gene clarin-1 is essential for hair cell function and associated neural activation. <i>Human Molecular Genetics</i> , 2009, 18, 2748-2760.	2.9	74
20	Rhodopsin Trafficking and Mistrafficking. <i>Progress in Molecular Biology and Translational Science</i> , 2015, 132, 39-71.	1.7	69
21	An Unconventional Secretory Pathway Mediates the Cilia Targeting of Peripherin/rds. <i>Journal of Neuroscience</i> , 2014, 34, 992-1006.	3.6	66
22	Retinoid cycle in the vertebrate retina: experimental approaches and mechanisms of isomerization. <i>Vision Research</i> , 2003, 43, 2959-2981.	1.4	63
23	Lecithin:Retinol Acyltransferase Is Responsible for Amidation of Retinylamine, a Potent Inhibitor of the Retinoid Cycle. <i>Journal of Biological Chemistry</i> , 2005, 280, 42263-42273.	3.4	56
24	Two-Photon Microscopy: Shedding Light on the Chemistry of Vision. <i>Biochemistry</i> , 2007, 46, 9674-9684.	2.5	56
25	Signals Governing the Trafficking and Mistrafficking of a Ciliary GPCR, Rhodopsin. <i>Journal of Neuroscience</i> , 2013, 33, 13621-13638.	3.6	56
26	Topology and Membrane Association of Lecithin: Retinol Acyltransferase. <i>Journal of Biological Chemistry</i> , 2007, 282, 2081-2090.	3.4	53
27	The Mechanosensory Structure of the Hair Cell Requires Clarin-1, a Protein Encoded by Usher Syndrome III Causative Gene. <i>Journal of Neuroscience</i> , 2012, 32, 9485-9498.	3.6	52
28	Clarin-1, Encoded by the Usher Syndrome III Causative Gene, Forms a Membranous Microdomain. <i>Journal of Biological Chemistry</i> , 2009, 284, 18980-18993.	3.4	51
29	Müller glia phagocytose dead photoreceptor cells in a mouse model of retinal degenerative disease. <i>FASEB Journal</i> , 2019, 33, 3680-3692.	0.5	51
30	A small molecule mitigates hearing loss in a mouse model of Usher syndrome III. <i>Nature Chemical Biology</i> , 2016, 12, 444-451.	8.0	43
31	Aberrant Metabolites in Mouse Models of Congenital Blinding Diseases: Formation and Storage of Retinyl Esters. <i>Biochemistry</i> , 2006, 45, 4210-4219.	2.5	35
32	Submembrane Assembly and Renewal of Rod Photoreceptor cGMP-Gated Channel: Insight into the Actin-Dependent Process of Outer Segment Morphogenesis. <i>Journal of Neuroscience</i> , 2014, 34, 8164-8174.	3.6	31
33	Three Kinds of Guanylate Cyclase Expressed in Medaka Photoreceptor Cells in Both Retina and Pineal Organ. <i>Biochemical and Biophysical Research Communications</i> , 1999, 255, 216-220.	2.1	30
34	Applications of phototransformable fluorescent proteins for tracking the dynamics of cellular components. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 1787-1806.	2.9	27
35	Retinyl Ester Homeostasis in the Adipose Differentiation-related Protein-deficient Retina. <i>Journal of Biological Chemistry</i> , 2008, 283, 25091-25102.	3.4	25
36	Arrestins expressed in killifish photoreceptor cells. <i>FEBS Letters</i> , 1997, 411, 12-18.	2.8	21

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37	Autosomal Recessive Retinitis Pigmentosa and E150K Mutation in the Opsin Gene. <i>Journal of Biological Chemistry</i> , 2006, 281, 22289-22298.	3.4	21
38	Proteomic Changes in the Photoreceptor Outer Segment upon Intense Light Exposure. <i>Journal of Proteome Research</i> , 2010, 9, 1173-1181.	3.7	21
39	Organization of cGMP sensing structures on the rod photoreceptor outer segment plasma membrane. <i>Channels</i> , 2014, 8, 528-535.	2.8	18
40	Hippocalcin in the olfactory epithelium: a mediator of second messenger signaling. <i>Biochemical and Biophysical Research Communications</i> , 2004, 322, 1131-1139.	2.1	16
41	Aster proteins mediate carotenoid transport in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2200068119.	7.1	15
42	Protein Sorting in Healthy and Diseased Photoreceptors. <i>Annual Review of Vision Science</i> , 2019, 5, 73-98.	4.4	14
43	Visualization of Retinoid Storage and Trafficking by Two-Photon Microscopy. <i>Methods in Molecular Biology</i> , 2010, 652, 247-261.	0.9	14
44	Two types of arrestins expressed in medaka rod photoreceptors. <i>FEBS Letters</i> , 1999, 462, 31-36.	2.8	13
45	Impairment of Vision in a Mouse Model of Usher Syndrome Type III. , 2016, 57, 866.		13
46	Retinol dehydrogenase 8 and ATP-binding cassette transporter 4 modulate dark adaptation of cones in mammalian retina. <i>Journal of Physiology</i> , 2015, 593, 4923-4941.	2.9	12
47	Retrograde intraciliary trafficking of opsin during the maintenance of cone-shaped photoreceptor outer segments of <i>Xenopus laevis</i> . <i>Journal of Comparative Neurology</i> , 2014, 522, 3577-3589.	1.6	11
48	Disrupted Plasma Membrane Protein Homeostasis in a <i>Xenopus Laevis</i> Model of Retinitis Pigmentosa. <i>Journal of Neuroscience</i> , 2019, 39, 5581-5593.	3.6	10
49	RPE Cells Engulf Microvesicles Secreted by Degenerating Rod Photoreceptors. <i>ENeuro</i> , 2020, 7, ENEURO.0507-19.2020.	1.9	8
50	Monitoring of Rhodopsin Trafficking and Mistrafficking in Live Photoreceptors. <i>Methods in Molecular Biology</i> , 2015, 1271, 293-307.	0.9	6
51	Pharmacological chaperone-mediated in vivo folding and stabilization of the P23H-opsin mutant associated with autosomal dominant retinitis pigmentosa. <i>Journal of Biological Chemistry</i> , 2003, 278, 21314.	3.4	4
52	A Third Photoreceptor-Specific GRK Found in the Retina of <i>Oryzias latipes</i> (Japanese killifish). <i>Zoological Science</i> , 2007, 24, 87-93.	0.7	3
53	Evolution of Visual Pigments and Related Molecules. <i>Novartis Foundation Symposium</i> , 1999, 224, 44-53.	1.1	3
54	A smartphone based method for mouse fundus imaging. <i>Experimental Eye Research</i> , 2021, 206, 108530.	2.6	1

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55	Retrograde intraciliary trafficking of opsin during the maintenance of cone-shaped photoreceptor outer segments of <i>Xenopus laevis</i> . <i>Journal of Comparative Neurology</i> , 2014, 522, Spc1-Spc1.	1.6	0
56	Spatiotemporal Analysis of Protein Transport and Membrane Morphogenesis in Vertebrate Photoreceptors. <i>Seibutsu Butsuri</i> , 2016, 56, 018-022.	0.1	0