

Hisao Tsukamoto

List of Publications by Year in descending order

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32
papers

1,498
citations

394421

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580821

25
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32
docs citations

32
times ranked

1322
citing authors

#	ARTICLE	IF	CITATIONS
1	Cephalochordate Melanopsin: Evolutionary Linkage between Invertebrate Visual Cells and Vertebrate Photosensitive Retinal Ganglion Cells. <i>Current Biology</i> , 2005, 15, 1065-1069.	3.9	219
2	Homologs of vertebrate Opn3 potentially serve as a light sensor in nonphotoreceptive tissue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4998-5003.	7.1	147
3	Jellyfish vision starts with cAMP signaling mediated by opsin-G α cascade. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15576-15580.	7.1	140
4	Counterion displacement in the molecular evolution of the rhodopsin family. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 284-289.	8.2	138
5	Depth Perception from Image Defocus in a Jumping Spider. <i>Science</i> , 2012, 335, 469-471.	12.6	125
6	Expression and comparative characterization of Gq-coupled invertebrate visual pigments and melanopsin. <i>Journal of Neurochemistry</i> , 2008, 105, 883-890.	3.9	90
7	Monomeric Rhodopsin Is the Minimal Functional Unit Required for Arrestin Binding. <i>Journal of Molecular Biology</i> , 2010, 399, 501-511.	4.2	83
8	Diversity and functional properties of bistable pigments. <i>Photochemical and Photobiological Sciences</i> , 2010, 9, 1435-1443.	2.9	71
9	Identification and characterization of a protostome homologue of peropsin from a jumping spider. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2010, 196, 51-59.	1.6	57
10	The Magnitude of the Light-induced Conformational Change in Different Rhodopsins Correlates with Their Ability to Activate G Proteins. <i>Journal of Biological Chemistry</i> , 2009, 284, 20676-20683.	3.4	52
11	A rhodopsin exhibiting binding ability to agonist all-trans-retinal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 6303-6308.	7.1	51
12	A Constitutively Activating Mutation Alters the Dynamics and Energetics of a Key Conformational Change in a Ligand-free G Protein-coupled Receptor. <i>Journal of Biological Chemistry</i> , 2013, 288, 28207-28216.	3.4	38
13	Diversification of non-visual photopigment parapinopsin in spectral sensitivity for diverse pineal functions. <i>BMC Biology</i> , 2015, 13, 73.	3.8	38
14	A Go-type opsin mediates the shadow reflex in the annelid <i>Platynereis dumerilii</i> . <i>BMC Biology</i> , 2018, 16, 41.	3.8	36
15	Activation of Transducin by Bistable Pigment Parapinopsin in the Pineal Organ of Lower Vertebrates. <i>PLoS ONE</i> , 2015, 10, e0141280.	2.5	34
16	Chimeras of Channelrhodopsin-1 and -2 from <i>Chlamydomonas reinhardtii</i> Exhibit Distinctive Light-induced Structural Changes from Channelrhodopsin-2. <i>Journal of Biological Chemistry</i> , 2015, 290, 11623-11634.	3.4	31
17	The counterion-retinylidene Schiff base interaction of an invertebrate rhodopsin rearranges upon light activation. <i>Communications Biology</i> , 2019, 2, 180.	4.4	31
18	A ciliary opsin in the brain of a marine annelid zooplankton is ultraviolet-sensitive, and the sensitivity is tuned by a single amino acid residue. <i>Journal of Biological Chemistry</i> , 2017, 292, 12971-12980.	3.4	27

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19	Rhodopsin in Nanodiscs Has Native Membrane-like Photointermediates. <i>Biochemistry</i> , 2011, 50, 5086-5091.	2.5	25
20	Retinal Attachment Instability Is Diversified among Mammalian Melanopsins. <i>Journal of Biological Chemistry</i> , 2015, 290, 27176-27187.	3.4	21
21	Distribution of Mammalian-Like Melanopsin in Cyclostome Retinas Exhibiting a Different Extent of Visual Functions. <i>PLoS ONE</i> , 2014, 9, e108209.	2.5	19
22	Structural properties determining low K ⁺ affinity of the selectivity filter in the TWIK1 K ⁺ channel. <i>Journal of Biological Chemistry</i> , 2018, 293, 6969-6984.	3.4	11
23	A Pivot between Helices V and VI near the Retinal-binding Site Is Necessary for Activation in Rhodopsins. <i>Journal of Biological Chemistry</i> , 2010, 285, 7351-7357.	3.4	7
24	Optogenetic Modulation of Ion Channels by Photoreceptive Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1293, 73-88.	1.6	6
25	Session 2SFA—the symposium “Elucidation of biological functions by optical control” on BSJ2019 at Miyazaki, Japan. <i>Biophysical Reviews</i> , 2020, 12, 279-280.	3.2	1
26	2P334 Mutational analyses of amino acid-interactions around the retinal Schiff base in the invertebrate rhodopsin(Photobiology-vision and photoreception, Oral Presentations). <i>Seibutsu Butsuri</i> , 2007, 47, S196.	0.1	0
27	1P-272 Photoreaction of parietopsin(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008, 48, S64.	0.1	0
28	1P-275 Comparative study on active state structures of rhodopsins having functionally varied properties using site-directed fluorescence labeling(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008, 48, S64.	0.1	0
29	3P275 Investigation on a relationship of spectral characteristics of the rhodopsins and depth perception mechanism in a jumping spider(Photobiology: Vision & Photoreception, The 48th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2010, 50, S196.	0.7843	14
30	Arrestin can Bind to a Single G-Protein Coupled Receptor. <i>Biophysical Journal</i> , 2010, 98, 291a.	0.5	0
31	Report of 4th Asia Oceania Conference on Photobiology (AOCP). <i>Seibutsu Butsuri</i> , 2009, 49, 098-099.	0.1	0
32	Optical control of cellular signaling pathways using animal opsins. , 2021, , .		0