Hisao Tsukamoto

List of Publications by Year in descending order

32 papers	1,498 citations	394421 19 h-index	580821 25 g-index
32 all docs	32 docs citations	32 times ranked	1322 citing authors

#	Article	IF	Citations
1	Optogenetic Modulation of Ion Channels by Photoreceptive Proteins. Advances in Experimental Medicine and Biology, 2021, 1293, 73-88.	1.6	6
2	Optical control of cellular signaling pathways using animal opsins. , 2021, , .		0
3	Session 2SFAâ€"the symposium â€œElucidation of biological functions by optical controlâ€•on BSJ2019 at Miyazaki, Japan. Biophysical Reviews, 2020, 12, 279-280.	3.2	1
4	The counterionâ€"retinylidene Schiff base interaction of an invertebrate rhodopsin rearranges upon light activation. Communications Biology, 2019, 2, 180.	4.4	31
5	Structural properties determining low K+ affinity of the selectivity filter in the TWIK1 K+ channel. Journal of Biological Chemistry, 2018, 293, 6969-6984.	3.4	11
6	A Go-type opsin mediates the shadow reflex in the annelid Platynereis dumerilii. BMC Biology, 2018, 16, 41.	3.8	36
7	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. Journal of Biological Chemistry, 2017, 292, 12971-12980.	3.4	27
8	Diversification of non-visual photopigment parapinopsin in spectral sensitivity for diverse pineal functions. BMC Biology, 2015, 13, 73.	3.8	38
9	Activation of Transducin by Bistable Pigment Parapinopsin in the Pineal Organ of Lower Vertebrates. PLoS ONE, 2015, 10, e0141280.	2.5	34
10	Chimeras of Channelrhodopsin-1 and -2 from Chlamydomonas reinhardtii Exhibit Distinctive Light-induced Structural Changes from Channelrhodopsin-2. Journal of Biological Chemistry, 2015, 290, 11623-11634.	3.4	31
11	Retinal Attachment Instability Is Diversified among Mammalian Melanopsins. Journal of Biological Chemistry, 2015, 290, 27176-27187.	3.4	21
12	Distribution of Mammalian-Like Melanopsin in Cyclostome Retinas Exhibiting a Different Extent of Visual Functions. PLoS ONE, 2014, 9, e108209.	2.5	19
13	Homologs of vertebrate Opn3 potentially serve as a light sensor in nonphotoreceptive tissue. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 4998-5003.	7.1	147
14	A Constitutively Activating Mutation Alters the Dynamics and Energetics of a Key Conformational Change in a Ligand-free G Protein-coupled Receptor. Journal of Biological Chemistry, 2013, 288, 28207-28216.	3.4	38
15	Depth Perception from Image Defocus in a Jumping Spider. Science, 2012, 335, 469-471.	12.6	125
16	Rhodopsin in Nanodiscs Has Native Membrane-like Photointermediates. Biochemistry, 2011, 50, 5086-5091.	2.5	25
17	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) Tj ETQq1 d.0.78431 b4 rgBT /
18	Identification and characterization of a protostome homologue of peropsin from a jumping spider. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2010, 196, 51-59.	1.6	57

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19	A Pivot between Helices V and VI near the Retinal-binding Site Is Necessary for Activation in Rhodopsins. Journal of Biological Chemistry, 2010, 285, 7351-7357.	3.4	7
20	Monomeric Rhodopsin Is the Minimal Functional Unit Required for Arrestin Binding. Journal of Molecular Biology, 2010, 399, 501-511.	4.2	83
21	Diversity and functional properties of bistable pigments. Photochemical and Photobiological Sciences, 2010, 9, 1435-1443.	2.9	71
22	Arrestin can Bind to a Single G-Protein Coupled Receptor. Biophysical Journal, 2010, 98, 291a.	0.5	0
23	The Magnitude of the Light-induced Conformational Change in Different Rhodopsins Correlates with Their Ability to Activate G Proteins. Journal of Biological Chemistry, 2009, 284, 20676-20683.	3.4	52
24	Report of 4th Asia Oceania Conference on Photobiology (AOCP). Seibutsu Butsuri, 2009, 49, 098-099.	0.1	0
25	Expression and comparative characterization of Gqâ€coupled invertebrate visual pigments and melanopsin. Journal of Neurochemistry, 2008, 105, 883-890.	3.9	90
26	Jellyfish vision starts with cAMP signaling mediated by opsin-G _s cascade. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15576-15580.	7.1	140
27	1P-272 Photoreaction of parietopsin(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 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) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	0.1	0
29	2P334 Mutational analyses of amino acid-interactions around the retinal Schiff base in the invertebrate rhodopsin(Photobiology-vision and photoreception,Oral Presentations). Seibutsu Butsuri, 2007, 47, S196.	0.1	0
30	Cephalochordate Melanopsin: Evolutionary Linkage between Invertebrate Visual Cells and Vertebrate Photosensitive Retinal Ganglion Cells. Current Biology, 2005, 15, 1065-1069.	3.9	219
31	A rhodopsin exhibiting binding ability to agonist all-trans-retinal. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6303-6308.	7.1	51
32	Counterion displacement in the molecular evolution of the rhodopsin family. Nature Structural and Molecular Biology, 2004, 11, 284-289.	8.2	138