

Takefumi Morizumi

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

1,792
citations

20
h-index

42
g-index

43
ext. papers

2,088
ext. citations

9.1
avg, IF

4.26
L-index

#	Paper	IF	Citations
39	Crystal structure of metarhodopsin II. <i>Nature</i> , 2011 , 471, 651-5	50.4	544
38	Monomeric rhodopsin is sufficient for normal rhodopsin kinase (GRK1) phosphorylation and arrestin-1 binding. <i>Journal of Biological Chemistry</i> , 2011 , 286, 1420-8	5.4	157
37	Cryo-EM structure of human rhodopsin bound to an inhibitory G protein. <i>Nature</i> , 2018 , 558, 553-558	50.4	153
36	Local vibrational coherences drive the primary photochemistry of vision. <i>Nature Chemistry</i> , 2015 , 7, 980-67.6	67.6	123
35	Conformation of receptor-bound visual arrestin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 18407-12	11.5	94
34	Constitutive phospholipid scramblase activity of a G protein-coupled receptor. <i>Nature Communications</i> , 2014 , 5, 5115	17.4	78
33	Conformational equilibria of light-activated rhodopsin in nanodiscs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3268-E3275	11.5	64
32	Opsin, a structural model for olfactory receptors?. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11021-4	16.4	55
31	Molecular properties of rhodopsin and rod function. <i>Journal of Biological Chemistry</i> , 2007 , 282, 6677-84	5.4	53
30	Dimerization deficiency of enigmatic retinitis pigmentosa-linked rhodopsin mutants. <i>Nature Communications</i> , 2016 , 7, 12832	17.4	39
29	Cryo-EM structure of the native rhodopsin dimer in nanodiscs. <i>Journal of Biological Chemistry</i> , 2019 , 294, 14215-14230	5.4	34
28	The Primary Photochemistry of Vision Occurs at the Molecular Speed Limit. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 4040-4047	3.4	32
27	High-throughput in situ X-ray screening of and data collection from protein crystals at room temperature and under cryogenic conditions. <i>Nature Protocols</i> , 2018 , 13, 260-292	18.8	31
26	Amino acid residues responsible for the meta-III decay rates in rod and cone visual pigments. <i>Biochemistry</i> , 2005 , 44, 2208-15	3.2	31
25	The photocycle and ultrafast vibrational dynamics of bacteriorhodopsin in lipid nanodiscs. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21310-20	3.6	28
24	Coupling of g proteins to reconstituted monomers and tetramers of the M2 muscarinic receptor. <i>Journal of Biological Chemistry</i> , 2014 , 289, 24347-65	5.4	28
23	Conserved Tyr223(5.58) plays different roles in the activation and G-protein interaction of rhodopsin. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7159-65	16.4	27

22	Molecular properties of rod and cone visual pigments from purified chicken cone pigments to mouse rhodopsin in situ. <i>Photochemical and Photobiological Sciences</i> , 2005 , 4, 667-74	4.2	27
21	Direct observation of the complex formation of GDP-bound transducin with the rhodopsin intermediate having a visible absorption maximum in rod outer segment membranes. <i>Biochemistry</i> , 2005 , 44, 9936-43	3.2	27
20	X-ray Crystallographic Structure and Oligomerization of Gloeobacter Rhodopsin. <i>Scientific Reports</i> , 2019 , 9, 11283	4.9	26
19	Direct observation of the pH-dependent equilibrium between metarhodopsins I and II and the pH-independent interaction of metarhodopsin II with transducin C-terminal peptide. <i>Biochemistry</i> , 2010 , 49, 736-41	3.2	20
18	Mechanism of G-protein activation by rhodopsin. <i>Photochemistry and Photobiology</i> , 2007 , 83, 70-5	3.6	18
17	Two-step mechanism of interaction of rhodopsin intermediates with the C-terminal region of the transducin alpha-subunit. <i>Journal of Biochemistry</i> , 2003 , 134, 259-67	3.1	17
16	Light-independent phospholipid scramblase activity of bacteriorhodopsin from Halobacterium salinarum. <i>Scientific Reports</i> , 2017 , 7, 9522	4.9	14
15	Serial femtosecond and serial synchrotron crystallography can yield data of equivalent quality: A systematic comparison. <i>Science Advances</i> , 2021 , 7,	14.3	12
14	Characterizing rhodopsin signaling by EPR spectroscopy: from structure to dynamics. <i>Photochemical and Photobiological Sciences</i> , 2015 , 14, 1586-97	4.2	11
13	Genetically Encoded Quinone Methides Enabling Rapid, Site-Specific, and Photocontrolled Protein Modification with Amine Reagents. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17057-17068	16.4	10
12	Chloride-dependent spectral tuning mechanism of L-group cone visual pigments. <i>Biochemistry</i> , 2013 , 52, 1192-7	3.2	9
11	The crystal structures of a chloride-pumping microbial rhodopsin and its proton-pumping mutant illuminate proton transfer determinants. <i>Journal of Biological Chemistry</i> , 2020 , 295, 14793-14804	5.4	9
10	Spectroscopic analysis of the effect of chloride on the active intermediates of the primate L group cone visual pigment. <i>Biochemistry</i> , 2012 , 51, 10017-23	3.2	6
9	Opsin, a Structural Model for Olfactory Receptors?. <i>Angewandte Chemie</i> , 2013 , 125, 11227-11230	3.6	5
8	Excited-State Vibronic Dynamics of Bacteriorhodopsin from Two-Dimensional Electronic Photon Echo Spectroscopy and Multiconfigurational Quantum Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3889-3896	6.4	4
7	G protein subtype specificity of rhodopsin intermediates metarhodopsin Ib and metarhodopsin II. <i>Photochemistry and Photobiology</i> , 2009 , 85, 57-62	3.6	3
6	Mixed Potential Energy Surfaces of the Ultrafast Isomerization of Retinal in Bacteriorhodopsin. <i>EPJ Web of Conferences</i> , 2013 , 41, 07020	0.3	2
5	3P035 Opsin, Structural Model for Olfactory Receptors(01A. Protein: Structure,Poster). <i>Seibutsu Butsuri</i> , 2013 , 53, S217	0	

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| 4 | 3TA2-03 Amino acid residues responsible for Cl ⁻ -dependent shift of absorption maximum in red-sensitive cone pigments(The 47th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2009 , 49, S53 | ○ |
| 3 | 1P-259 Elucidation of the activation mechanism of rhodopsin based on the analysis of pH dependent equilibrium between metarhodopsin I and II(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S62 | ○ |
| 2 | 1P-273 Analysis of the regions in the C-terminus of G protein alpha subunit controlling the binding and activation efficiency by rhodopsin(The 46th Annual Meeting of the Biophysical Society of Japan). <i>Seibutsu Butsuri</i> , 2008 , 48, S64 | ○ |
| 1 | Active Structure of G Protein Coupled Receptors. <i>Seibutsu Butsuri</i> , 2013 , 53, 034-036 | ○ |