# Takefumi Morizumi

## List of Publications by Year in Descending Order

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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.

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|---|---|---|---|
| 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 | Serial femtosecond and serial synchrotron crystallography can yield data of equivalent quality: A systematic comparison. *Science Advances*, **2021**, 7, | 14.3 | 12 |
| 38 | Excited-State Vibronic Dynamics of Bacteriorhodopsin from Two-Dimensional Electronic Photon Echo Spectroscopy and Multiconfigurational Quantum Chemistry. *Journal of Physical Chemistry Letters*, **2020**, 11, 3889-3896 | 6.4 | 4 |
| 37 | The crystal structures of a chloride-pumping microbial rhodopsin and its proton-pumping mutant illuminate proton transfer determinants. *Journal of Biological Chemistry*, **2020**, 295, 14793-14804 | 5.4 | 9 |
| 36 | Genetically Encoded Quinone Methides Enabling Rapid, Site-Specific, and Photocontrolled Protein Modification with Amine Reagents. *Journal of the American Chemical Society*, **2020**, 142, 17057-17068 | 16.4 | 10 |
| 35 | Cryo-EM structure of the native rhodopsin dimer in nanodiscs. *Journal of Biological Chemistry*, **2019**, 294, 14215-14230 | 5.4 | 34 |
| 34 | X-ray Crystallographic Structure and Oligomerization of Gloeobacter Rhodopsin. *Scientific Reports*, **2019**, 9, 11283 | 4.9 | 26 |
| 33 | High-throughput in situ X-ray screening of and data collection from protein crystals at room temperature and under cryogenic conditions. *Nature Protocols*, **2018**, 13, 260-292 | 18.8 | 31 |
| 32 | Cryo-EM structure of human rhodopsin bound to an inhibitory G protein. *Nature*, **2018**, 558, 553-558 | 50.4 | 153 |
| 31 | Conformational equilibria of light-activated rhodopsin in nanodiscs. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E3268-E3275 | 11.5 | 64 |
| 30 | The Primary Photochemistry of Vision Occurs at the Molecular Speed Limit. *Journal of Physical Chemistry B*, **2017**, 121, 4040-4047 | 3.4 | 32 |
| 29 | Light-independent phospholipid scramblase activity of bacteriorhodopsin from Halobacterium salinarum. *Scientific Reports*, **2017**, 7, 9522 | 4.9 | 14 |
| 28 | Dimerization deficiency of enigmatic retinitis pigmentosa-linked rhodopsin mutants. *Nature Communications*, **2016**, 7, 12832 | 17.4 | 39 |
| 27 | Characterizing rhodopsin signaling by EPR spectroscopy: from structure to dynamics. *Photochemical and Photobiological Sciences*, **2015**, 14, 1586-97 | 4.2 | 11 |
| 26 | Local vibrational coherences drive the primary photochemistry of vision. *Nature Chemistry*, **2015**, 7, 980-6 | 17.6 | 123 |
| 25 | The photocycle and ultrafast vibrational dynamics of bacteriorhodopsin in lipid nanodiscs. *Physical Chemistry Chemical Physics*, **2014**, 16, 21310-20 | 3.6 | 28 |
| 24 | Coupling of g proteins to reconstituted monomers and tetramers of the M2 muscarinic receptor. *Journal of Biological Chemistry*, **2014**, 289, 24347-65 | 5.4 | 28 |
| 23 | Constitutive phospholipid scramblase activity of a G protein-coupled receptor. *Nature Communications*, **2014**, 5, 5115 | 17.4 | 78 |

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| 22 | Opsin, a structural model for olfactory receptors?. *Angewandte Chemie - International Edition*, **2013**, 52, 11021-4 | 16.4 | 55 |
| 21 | Mixed Potential Energy Surfaces of the Ultrafast Isomerization of Retinal in Bacteriorhodopsin. *EPJ Web of Conferences*, **2013**, 41, 07020 | 0.3 | 2 |
| 20 | Chloride-dependent spectral tuning mechanism of L-group cone visual pigments. *Biochemistry*, **2013**, 52, 1192-7 | 3.2 | 9 |
| 19 | Opsin, a Structural Model for Olfactory Receptors?. *Angewandte Chemie*, **2013**, 125, 11227-11230 | 3.6 | 5 |
| 18 | 3P035 Opsin, Structural Model for Olfactory Receptors(01A. Protein: Structure,Poster). *Seibutsu Butsuri*, **2013**, 53, S217 | 0 | |
| 17 | Active Structure of G Protein Coupled Receptors. *Seibutsu Butsuri*, **2013**, 53, 034-036 | 0 | |
| 16 | Spectroscopic analysis of the effect of chloride on the active intermediates of the primate L group cone visual pigment. *Biochemistry*, **2012**, 51, 10017-23 | 3.2 | 6 |
| 15 | Conformation of receptor-bound visual arrestin. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 18407-12 | 11.5 | 94 |
| 14 | Crystal structure of metarhodopsin II. *Nature*, **2011**, 471, 651-5 | 50.4 | 544 |
| 13 | Conserved Tyr223(5.58) plays different roles in the activation and G-protein interaction of rhodopsin. *Journal of the American Chemical Society*, **2011**, 133, 7159-65 | 16.4 | 27 |
| 12 | Monomeric rhodopsin is sufficient for normal rhodopsin kinase (GRK1) phosphorylation and arrestin-1 binding. *Journal of Biological Chemistry*, **2011**, 286, 1420-8 | 5.4 | 157 |
| 11 | 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. *Biochemistry*, **2010**, 49, 736-41 | 3.2 | 20 |
| 10 | G protein subtype specificity of rhodopsin intermediates metarhodopsin Ib and metarhodopsin II. *Photochemistry and Photobiology*, **2009**, 85, 57-62 | 3.6 | 3 |
| 9 | 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). *Seibutsu Butsuri*, **2009**, 49, S53 | 0 | |
| 8 | 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). *Seibutsu Butsuri*, **2008**, 48, S62 | 0 | |
| 7 | 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). *Seibutsu Butsuri*, **2008**, 48, S64 | 0 | |
| 6 | Molecular properties of rhodopsin and rod function. *Journal of Biological Chemistry*, **2007**, 282, 6677-84 | 5.4 | 53 |
| 5 | Mechanism of G-protein activation by rhodopsin. *Photochemistry and Photobiology*, **2007**, 83, 70-5 | 3.6 | 18 |

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| 4 | Molecular properties of rod and cone visual pigments from purified chicken cone pigments to mouse rhodopsin in situ. *Photochemical and Photobiological Sciences*, **2005**, 4, 667-74 | 4.2 | 27 |
| 3 | Amino acid residues responsible for the meta-III decay rates in rod and cone visual pigments. *Biochemistry*, **2005**, 44, 2208-15 | 3.2 | 31 |
| 2 | Direct observation of the complex formation of GDP-bound transducin with the rhodopsin intermediate having a visible absorption maximum in rod outer segment membranes. *Biochemistry*, **2005**, 44, 9936-43 | 3.2 | 27 |
| 1 | Two-step mechanism of interaction of rhodopsin intermediates with the C-terminal region of the transducin alpha-subunit. *Journal of Biochemistry*, **2003**, 134, 259-67 | 3.1 | 17 |