

# Shota Ito

## List of Publications by Year in descending order

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Version: 2024-02-01

17  
papers

776  
citations

759233

12  
h-index

888059

17  
g-index

19  
all docs

19  
docs citations

19  
times ranked

863  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-resolved serial femtosecond crystallography reveals early structural changes in channelrhodopsin. <i>ELife</i> , 2021, 10, .	6.0	41
2	Retinal Vibrations in Bacteriorhodopsin are Mechanically Harmonic but Electrically Anharmonic: Evidence From Overtone and Combination Bands. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 749261.	3.5	3
3	Infrared spectroscopic analysis on structural changes around the protonated Schiff base upon retinal isomerization in light-driven sodium pump KR2. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148190.	1.0	15
4	Long-distance perturbation on Schiff baseâ€™counterion interactions by His30 and the extracellular Na <sup>+</sup> -binding site in <i>Krokinobacter</i> rhodopsin 2. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 8450-8455.	2.8	15
5	Potential Second-Harmonic Ghost Bands in Fourier Transform Infrared (FT-IR) Difference Spectroscopy of Proteins. <i>Applied Spectroscopy</i> , 2018, 72, 956-963.	2.2	6
6	Low-temperature FTIR spectroscopy provides evidence for protein-bound water molecules in eubacterial light-driven ion pumps. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3165-3171.	2.8	13
7	Unique Hydrogen Bonds in Membrane Protein Monitored by Whole Mid-IR ATR Spectroscopy in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2018, 122, 165-170.	2.6	19
8	Structural mechanisms of selectivity and gating in anion channelrhodopsins. <i>Nature</i> , 2018, 561, 349-354.	27.8	67
9	Crystal structure of the natural anion-conducting channelrhodopsin GtACR1. <i>Nature</i> , 2018, 561, 343-348.	27.8	93
10	Hydrogen-bonding network at the cytoplasmic region of a light-driven sodium pump rhodopsin KR2. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 684-691.	1.0	13
11	A distinct abundant group of microbial rhodopsins discovered using functional metagenomics. <i>Nature</i> , 2018, 558, 595-599.	27.8	190
12	FTIR Analysis of a Light-Driven Inward Proton-Pumping Rhodopsin at 77 K. <i>Photochemistry and Photobiology</i> , 2017, 93, 1381-1387.	2.5	20
13	Solid-State Nuclear Magnetic Resonance Structural Study of the Retinal-Binding Pocket in Sodium Ion Pump Rhodopsin. <i>Biochemistry</i> , 2017, 56, 543-550.	2.5	26
14	Molecular properties of a DTD channelrhodopsin from <i>Guillardia theta</i> . <i>Biophysics and Physicobiology</i> , 2017, 14, 57-66.	1.0	37
15	A natural light-driven inward proton pump. <i>Nature Communications</i> , 2016, 7, 13415.	12.8	124
16	A new group of eubacterial light-driven retinal-binding proton pumps with an unusual cytoplasmic proton donor. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2015, 1847, 1518-1529.	1.0	35
17	Water-Containing Hydrogen-Bonding Network in the Active Center of Channelrhodopsin. <i>Journal of the American Chemical Society</i> , 2014, 136, 3475-3482.	13.7	59