Shota Ito

List of Publications by Year in descending order

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