Andrei K Dioumaev

List of Publications by Year
in descending order

19 papers	1,159 citations	567281 15 h-index	794594 19 g-index
19 all docs	19 docs citations	19 times ranked	733 citing authors

#	Article	IF	Citations
1	Proton Transfers in the Photochemical Reaction Cycle of Proteorhodopsin. Biochemistry, 2002, 41, 5348-5358.	2.5	203
2	Existence of a Proton Transfer Chain in Bacteriorhodopsin:Â Participation of Glu-194 in the Release of Protons to the Extracellular Surfaceâ€. Biochemistry, 1998, 37, 2496-2506.	2.5	173
3	Proton Transport by Proteorhodopsin Requires that the Retinal Schiff Base Counterion Asp-97 Be Anionicâ€. Biochemistry, 2003, 42, 6582-6587.	2.5	92
4	Light-Driven Na⁺ Pump from Gillisia limnaea: A High-Affinity Na⁺ Binding Site Is Formed Transiently in the Photocycle. Biochemistry, 2014, 53, 7549-7561.	2.5	80
5	Local-Access Model for Proton Transfer in Bacteriorhodopsin. Biochemistry, 1998, 37, 3982-3993.	2.5	78
6	Modeling Vibrational Spectra of Amino Acid Side Chains in Proteins: The Carbonyl Stretch Frequency of Buried Carboxylic Residues. Journal of the American Chemical Society, 1995, 117, 10572-10574.	13.7	69
7	Evaluation of intrinsic chemical kinetics and transient product spectra from time-resolved spectroscopic data. Biophysical Chemistry, 1997, 67, 1-25.	2.8	69
8	Connectivity of the Retinal Schiff Base to Asp85 and Asp96 during the Bacteriorhodopsin Photocycle: The Local-Access Model. Biophysical Journal, 1998, 75, 1455-1465.	0.5	67
9	Fourier Transform Infrared Spectra of a Late Intermediate of the Bacteriorhodopsin Photocycle Suggest Transient Protonation of Asp-212â€. Biochemistry, 1999, 38, 10070-10078.	2.5	67
10	Photochemical Reaction Cycle and Proton Transfers inNeurospora Rhodopsin. Journal of Biological Chemistry, 2001, 276, 32495-32505.	3.4	60
11	Two Bathointermediates of the Bacteriorhodopsin Photocycle, Distinguished by Nanosecond Time-Resolved FTIR Spectroscopy at Room Temperature. Journal of Physical Chemistry B, 1997, 101, 1655-1662.	2.6	56
12	Breaking the Carboxyl Rule. Journal of Biological Chemistry, 2013, 288, 21254-21265.	3.4	36
13	Bacteriorhodopsin photocycle at cryogenic temperatures reveals distributed barriers of conformational substates. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9621-9626.	7.1	27
14	Photocycle of Exiguobacterium sibiricum Rhodopsin Characterized by Low-Temperature Trapping in the IR and Time-Resolved Studies in the Visible. Journal of Physical Chemistry B, 2013, 117, 7235-7253.	2.6	26
15	Nanoâ€and Microsecond Timeâ€Resolved FTIR Spectroscopy of the Halorhodopsin Photocycle. Photochemistry and Photobiology, 1997, 66, 755-763.	2.5	25
16	Low-Temperature FTIR Study of Multiple K Intermediates in the Photocycles of Bacteriorhodopsin and Xanthorhodopsin. Journal of Physical Chemistry B, 2010, 114, 2920-2931.	2.6	11
17	Switch from Conventional to Distributed Kinetics in the Bacteriorhodopsin Photocycle. Biochemistry, 2008, 47, 11125-11133.	2.5	8
18	Infrared Monitoring of Interlayer Water in Stacks of Purple Membranes^{â€}. Photochemistry and Photobiology, 2009, 85, 598-608.	2.5	6

#	Article	IF	Citations
19	Two Bathointermediates of the Bacteriorhodopsin Photocycle, from Time-Resolved Nanosecond Spectra in the Visible. Journal of Physical Chemistry B, 2009, 113, 16643-16653.	2.6	6