

Elena Govorunova

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,639
citations

566801

15
h-index

752256

20
g-index

25
all docs

25
docs citations

25
times ranked

1626
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural light-gated anion channels: A family of microbial rhodopsins for advanced optogenetics. <i>Science</i> , 2015, 349, 647-650.	6.0	575
2	Microbial Rhodopsins: Diversity, Mechanisms, and Optogenetic Applications. <i>Annual Review of Biochemistry</i> , 2017, 86, 845-872.	5.0	271
3	New Channelrhodopsin with a Red-Shifted Spectrum and Rapid Kinetics from <i>Mesostigma viride</i> . <i>MBio</i> , 2011, 2, e00115-11.	1.8	89
4	Characterization of a Highly Efficient Blue-shifted Channelrhodopsin from the Marine Alga <i>Platymonas subcordiformis</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 29911-29922.	1.6	88
5	Gating mechanisms of a natural anion channelrhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14236-14241.	3.3	65
6	Intramolecular Proton Transfer in Channelrhodopsins. <i>Biophysical Journal</i> , 2013, 104, 807-817.	0.2	62
7	Diversity of <i>Chlamydomonas</i> Channelrhodopsins. <i>Photochemistry and Photobiology</i> , 2012, 88, 119-128.	1.3	58
8	Kalium channelrhodopsins are natural light-gated potassium channels that mediate optogenetic inhibition. <i>Nature Neuroscience</i> , 2022, 25, 967-974.	7.1	56
9	Structurally Distinct Cation Channelrhodopsins from Cryptophyte Algae. <i>Biophysical Journal</i> , 2016, 110, 2302-2304.	0.2	50
10	Photochemical reaction cycle transitions during anion channelrhodopsin gating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E1993-2000.	3.3	49
11	Photosensory Functions of Channelrhodopsins in Native Algal Cells. <i>Photochemistry and Photobiology</i> , 2009, 85, 556-563.	1.3	48
12	RubyACRs, nonalgal anion channelrhodopsins with highly red-shifted absorption. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22833-22840.	3.3	45
13	Bacteriorhodopsin-like channelrhodopsins: Alternative mechanism for control of cation conductance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9512-E9519.	3.3	44
14	Rhodopsin optogenetic toolbox v2.0 for light-sensitive excitation and inhibition in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2018, 13, e0191802.	1.1	44
15	<i>Proteomonas sulcata</i> ACR1: A Fast Anion Channelrhodopsin. <i>Photochemistry and Photobiology</i> , 2016, 92, 257-263.	1.3	42
16	Role of a Helix B Lysine Residue in the Photoactive Site in Channelrhodopsins. <i>Biophysical Journal</i> , 2014, 106, 1607-1617.	0.2	13
17	The road to optogenetics: Microbial rhodopsins. <i>Biochemistry (Moscow)</i> , 2016, 81, 928-940.	0.7	13
18	The crystal structure of bromide-bound GtACR1 reveals a pre-activated state in the transmembrane anion tunnel. <i>ELife</i> , 2021, 10, .	2.8	11

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19	Opposite Charge Movements Within the Photoactive Site Modulate Two-Step Channel Closing in GtACR1. <i>Biophysical Journal</i> , 2019, 117, 2034-2040.	0.2	7
20	Changes in photoreceptor currents and their sensitivity to the chemoeffector tryptone during gamete mating in <i>Chlamydomonas reinhardtii</i> . <i>Planta</i> , 2006, 225, 441-449.	1.6	6
21	Editorial on Special Issue "The Advances and Applications of Optogenetics". <i>Applied Sciences</i> (Switzerland), 2020, 10, 6563.	1.3	0