

JÃ¼rgen Reingruber

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

309
citations

840776

11
h-index

1125743

13
g-index

18
all docs

18
docs citations

18
times ranked

261
citing authors

#	ARTICLE	IF	CITATIONS
1	Gated Narrow Escape Time for Molecular Signaling. <i>Physical Review Letters</i> , 2009, 103, 148102.	7.8	58
2	The PDE6 mutation in the rd10 retinal degeneration mouse model causes protein mislocalization and instability and promotes cell death through increased ion influx. <i>Journal of Biological Chemistry</i> , 2018, 293, 15332-15346.	3.4	53
3	Detection of single photons by toad and mouse rods. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19378-19383.	7.1	33
4	Narrow escape for a stochastically gated Brownian ligand. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 065103.	1.8	26
5	How rods respond to single photons: Key adaptations of a G-protein cascade that enable vision at the physical limit of perception. <i>BioEssays</i> , 2015, 37, 1243-1252.	2.5	25
6	Narrow escape time to a structured target located on the boundary of a microdomain. <i>Journal of Chemical Physics</i> , 2009, 130, 094909.	3.0	23
7	Ca ²⁺ -activated Cl ⁻ current ensures robust and reliable signal amplification in vertebrate olfactory receptor neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1053-1058.	7.1	17
8	Computational and mathematical methods for morphogenetic gradient analysis, boundary formation and axonal targeting. <i>Seminars in Cell and Developmental Biology</i> , 2014, 35, 189-202.	5.0	15
9	The Dynamics of Phosphodiesterase Activation in Rods and Cones. <i>Biophysical Journal</i> , 2008, 94, 1954-1970.	0.5	14
10	Diffusion in narrow domains and application to phototransduction. <i>Physical Review E</i> , 2009, 79, 030904.	2.1	12
11	A kinetic analysis of mouse rod and cone photoreceptor responses. <i>Journal of Physiology</i> , 2020, 598, 3747-3763.	2.9	12
12	Estimating the rate constant of cyclic GMP hydrolysis by activated phosphodiesterase in photoreceptors. <i>Journal of Chemical Physics</i> , 2008, 129, 145102.	3.0	11
13	Analysis of waveform and amplitude of mouse rod and cone flash responses. <i>Journal of Physiology</i> , 2021, 599, 3295-3312.	2.9	5