

Shiqiang Gao

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,163
citations

516215

16
h-index

454577

30
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35
all docs

35
docs citations

35
times ranked

1495
citing authors

#	ARTICLE	IF	CITATIONS
1	Optogenetic tools for manipulation of cyclic nucleotides functionally coupled to cyclic nucleotide-gated channels. <i>British Journal of Pharmacology</i> , 2022, 179, 2519-2537.	2.7	6
2	Characterization and Modification of Light-Sensitive Phosphodiesterases from Choanoflagellates. <i>Biomolecules</i> , 2022, 12, 88.	1.8	4
3	PMRT1, a <i>Plasmodium</i> -Specific Parasite Plasma Membrane Transporter, Is Essential for Asexual and Sexual Blood Stage Development. <i>MBio</i> , 2022, 13, e0062322.	1.8	7
4	Visual function restoration with a highly sensitive and fast Channelrhodopsin in blind mice. <i>Signal Transduction and Targeted Therapy</i> , 2022, 7, 104.	7.1	10
5	Optogenetic control of plant growth by a microbial rhodopsin. <i>Nature Plants</i> , 2021, 7, 144-151.	4.7	35
6	An engineered membrane-bound guanylyl cyclase with light-switchable activity. <i>BMC Biology</i> , 2021, 19, 54.	1.7	8
7	Extending the Anion Channelrhodopsin-Based Toolbox for Plant Optogenetics. <i>Membranes</i> , 2021, 11, 287.	1.4	9
8	mem-iLID, a fast and economic protein purification method. <i>Bioscience Reports</i> , 2021, 41, .	1.1	3
9	Optogenetic control of the guard cell membrane potential and stomatal movement by the light-gated anion channel <i>Gt</i> ACR1. <i>Science Advances</i> , 2021, 7, .	4.7	28
10	Advances and prospects of rhodopsin-based optogenetics in plant research. <i>Plant Physiology</i> , 2021, 187, 572-589.	2.3	6
11	Hypothalamic dopamine neurons motivate mating through persistent cAMP signalling. <i>Nature</i> , 2021, 597, 245-249.	13.7	63
12	PACmn for improved optogenetic control of intracellular cAMP. <i>BMC Biology</i> , 2021, 19, 227.	1.7	13
13	Modified Rhodopsins From <i>Aureobasidium pullulans</i> Excel With Very High Proton-Transport Rates. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 750528.	1.6	8
14	Using Expansion Microscopy to Visualize and Characterize the Morphology of Mitochondrial Cristae. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 617.	1.8	14
15	Advances, Perspectives and Potential Engineering Strategies of Light-Gated Phosphodiesterases for Optogenetic Applications. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7544.	1.8	5
16	Action potentials in <i>Xenopus</i> oocytes triggered by blue light. <i>Journal of General Physiology</i> , 2020, 152, .	0.9	2
17	Mutated Channelrhodopsins with Increased Sodium and Calcium Permeability. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 664.	1.3	25
18	An optogenetic analogue of second-order reinforcement in <i>Drosophila</i> . <i>Biology Letters</i> , 2019, 15, 20190084.	1.0	29

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19	Optimized photo-stimulation of halorhodopsin for long-term neuronal inhibition. <i>BMC Biology</i> , 2019, 17, 95.	1.7	25
20	A novel rhodopsin phosphodiesterase from <i>Salpingoeca rosetta</i> shows light-enhanced substrate affinity. <i>Biochemical Journal</i> , 2018, 475, 1121-1128.	1.7	28
21	Two-component cyclase opsins of green algae are ATP-dependent and light-inhibited guanylyl cyclases. <i>BMC Biology</i> , 2018, 16, 144.	1.7	35
22	Synthetic Light-Activated Ion Channels for Optogenetic Activation and Inhibition. <i>Frontiers in Neuroscience</i> , 2018, 12, 643.	1.4	42
23	Rhodopsin-cyclases for photocontrol of cGMP/cAMP and 2.3-Å structure of the adenylyl cyclase domain. <i>Nature Communications</i> , 2018, 9, 2046.	5.8	55
24	Mechano-dependent signaling by Latrophilin/CIRL quenches cAMP in proprioceptive neurons. <i>ELife</i> , 2017, 6, .	2.8	138
25	Geminivirus Activates ASYMMETRIC LEAVES 2 to Accelerate Cytoplasmic DCP2-Mediated mRNA Turnover and Weakens RNA Silencing in Arabidopsis. <i>PLoS Pathogens</i> , 2015, 11, e1005196.	2.1	61
26	Optogenetic manipulation of cGMP in cells and animals by the tightly light-regulated guanylyl-cyclase opsin CyclOp. <i>Nature Communications</i> , 2015, 6, 8046.	5.8	95
27	Channelrhodopsin-2 ^{XXL} , a powerful optogenetic tool for low-light applications. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13972-13977.	3.3	182
28	A LOV-domain-mediated blue-light-activated adenylyl cyclase from the cyanobacterium <i>Microcoleus chthonoplastes</i> PCC 7420. <i>Biochemical Journal</i> , 2013, 455, 359-365.	1.7	61
29	Dissecting Functions of <i>KATANIN</i> and <i>WRINKLED1</i> in Cotton Fiber Development by Virus-Induced Gene Silencing. <i>Plant Physiology</i> , 2012, 160, 738-748.	2.3	105
30	A new strain of Indian cassava mosaic virus causes a mosaic disease in the biodiesel crop <i>Jatropha curcas</i> . <i>Archives of Virology</i> , 2010, 155, 607-612.	0.9	58