

João L Carvalho-De-Souza

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

1,027
citations

840119

11
h-index

1125271

13
g-index

13
all docs

13
docs citations

13
times ranked

1585
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular basis for functional connectivity between the voltage sensor and the selectivity filter gate in Shaker K ⁺ channels. <i>ELife</i> , 2021, 10, .	2.8	15
2	Loss-of-function BK channel mutation causes impaired mitochondria and progressive cerebellar ataxia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6023-6034.	3.3	58
3	Noncanonical mechanism of voltage sensor coupling to pore revealed by tandem dimers of Shaker. <i>Nature Communications</i> , 2019, 10, 3584.	5.8	25
4	An atlas of nano-enabled neural interfaces. <i>Nature Nanotechnology</i> , 2019, 14, 645-657.	15.6	129
5	Nongenetic optical neuromodulation with silicon-based materials. <i>Nature Protocols</i> , 2019, 14, 1339-1376.	5.5	62
6	Cholesterol Functionalization of Gold Nanoparticles Enhances Photoactivation of Neural Activity. <i>ACS Chemical Neuroscience</i> , 2019, 10, 1478-1487.	1.7	33
7	Photoelectrochemical modulation of neuronal activity with free-standing coaxial silicon nanowires. <i>Nature Nanotechnology</i> , 2018, 13, 260-266.	15.6	185
8	Optocapacitive Generation of Action Potentials by Microsecond Laser Pulses of Nanojoule Energy. <i>Biophysical Journal</i> , 2018, 114, 283-288.	0.2	69
9	Nonsensing residues in S3-S4 linker's C terminus affect the voltage sensor set point in K ⁺ channels. <i>Journal of General Physiology</i> , 2018, 150, 307-321.	0.9	14
10	Non-Canonical Interactions between Voltage Sensors and Pore Domain in Shaker K ⁺ -Channel. <i>Biophysical Journal</i> , 2017, 112, 162a.	0.2	3
11	Nav channel binder containing a specific conjugation-site based on a low toxicity β -scorpion toxin. <i>Scientific Reports</i> , 2017, 7, 16329.	1.6	7
12	Heterogeneous silicon mesostructures for lipid-supported bioelectric interfaces. <i>Nature Materials</i> , 2016, 15, 1023-1030.	13.3	132
13	Photosensitivity of Neurons Enabled by Cell-Targeted Gold Nanoparticles. <i>Neuron</i> , 2015, 86, 207-217.	3.8	295