

JÃ©rÃ©me J Lacroix

List of Publications by Year in descending order

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52
papers

1,265
citations

361296

20
h-index

526166

27
g-index

62
all docs

62
docs citations

62
times ranked

1453
citing authors

#	ARTICLE	IF	CITATIONS
1	Focused ultrasound excites cortical neurons via mechanosensitive calcium accumulation and ion channel amplification. <i>Nature Communications</i> , 2022, 13, 493.	5.8	152
2	Yoda1's energetic footprint on Piezo1 channels and its modulation by voltage and temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	19
3	Dichotomy between heterotypic and homotypic interactions by a common chemical law. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 17761-17765.	1.3	0
4	Intermolecular Cooperative Gating in Piezo1 Channels. <i>Biophysical Journal</i> , 2021, 120, 157a-158a.	0.2	0
5	iGlow: Real-Time Fluorescence Reporting, Intra-Vesicular Activity, and Helix-8 Independence in a CPGFP-Tagged Mechanosensitive GPCR. <i>Biophysical Journal</i> , 2021, 120, 363a.	0.2	0
6	An Open State Was Induced by Mimicking Mechanosensitive Piezo1 Channel Clusters in Molecular Dynamic Simulations. <i>Biophysical Journal</i> , 2021, 120, 228a.	0.2	0
7	Mechanical and chemical activation of GPR68 probed with a genetically encoded fluorescent reporter. <i>Journal of Cell Science</i> , 2021, 134, .	1.2	17
8	Crowding-induced opening of the mechanosensitive Piezo1 channel in silico. <i>Communications Biology</i> , 2021, 4, 84.	2.0	35
9	Ion Channels in Biophysics and Physiology: Methods & Challenges to Study Mechanosensitive Ion Channels. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1349, 33-49.	0.8	0
10	Insight into Molecular Mechanism for Activin A-Induced Bone Morphogenetic Protein Signaling. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6498.	1.8	6
11	Domain-Dependent Force Selectivity in the Mechanosensitive Ion Channel Piezo1. <i>Biophysical Journal</i> , 2020, 118, 396a-397a.	0.2	0
12	A mechanism for the activation of the mechanosensitive Piezo1 channel by the small molecule Yoda1. <i>Nature Communications</i> , 2019, 10, 4503.	5.8	136
13	Multiplexing Focused Ultrasound Stimulation with Fluorescence Microscopy. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	3
14	Force-Dependent Conformational Changes in the Mechanosensitive Piezo1 Channel. <i>Biophysical Journal</i> , 2019, 116, 377a.	0.2	0
15	Structural Bases for Chemical and Mechanical Gating in the Piezo1 Channel. <i>Biophysical Journal</i> , 2019, 116, 478a-479a.	0.2	0
16	Development of a PET radioligand for potassium channels to image CNS demyelination. <i>Scientific Reports</i> , 2018, 8, 607.	1.6	36
17	Probing the gating mechanism of the mechanosensitive channel Piezo1 with the small molecule Yoda1. <i>Nature Communications</i> , 2018, 9, 2029.	5.8	104
18	A Minimal Protein Region Required for the Chemical Activation of the Mechanosensitive Channel Piezo1. <i>Biophysical Journal</i> , 2018, 114, 203a.	0.2	0

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19	Can Relative Binding Free Energy Predict Selectivity of Reversible Covalent Inhibitors?. <i>Journal of the American Chemical Society</i> , 2017, 139, 17945-17952.	6.6	44
20	Polymodal allosteric regulation of Type 1 Serine/Threonine Kinase Receptors via a conserved electrostatic lock. <i>PLoS Computational Biology</i> , 2017, 13, e1005711.	1.5	16
21	Conformational Changes during Voltage Sensing. <i>Biophysical Journal</i> , 2016, 110, 510a.	0.2	0
22	Kv3.1 uses a timely resurgent K ⁺ current to secure action potential repolarization. <i>Nature Communications</i> , 2015, 6, 10173.	5.8	54
23	Moving gating charges through the gating pore in a Kv channel voltage sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1950-9.	3.3	69
24	Searching for the Interaction Sites of the Beta1 Subunit with the Voltage-Sensing Domains of Sodium Channels Using LRET. <i>Biophysical Journal</i> , 2014, 106, 133a.	0.2	0
25	Probing $\hat{\pm} -3$ 10 Transitions in a Voltage-Sensing S4 Helix. <i>Biophysical Journal</i> , 2014, 107, 1117-1128.	0.2	23
26	Effects of Decreased Hydrophobicity above R1 in S4-Based Voltage Sensors. <i>Biophysical Journal</i> , 2014, 106, 742a.	0.2	0
27	Molecular Bases for the Asynchronous Activation of Sodium and Potassium Channels Required for Nerve Impulse Generation. <i>Neuron</i> , 2013, 79, 651-657.	3.8	49
28	Molecular Basis for Time Dependent Modulation of Kv3.1 Channels that Assures Action Potential Repolarization. <i>Biophysical Journal</i> , 2013, 104, 125a.	0.2	0
29	S3-S4 Linker Length Modulates the Relaxed State of a Voltage-Gated Potassium Channel. <i>Biophysical Journal</i> , 2013, 105, 2312-2322.	0.2	30
30	Effects of Charged Residues Inserted above R1 in S4-Based Voltage Sensors. <i>Biophysical Journal</i> , 2013, 104, 197a.	0.2	0
31	Molecular Determinants for the Genesis of the Action Potential. <i>Biophysical Journal</i> , 2013, 104, 14a.	0.2	0
32	Probing S4 Re-Arrangement during Gating using Optical Tools. <i>Biophysical Journal</i> , 2013, 104, 276a.	0.2	0
33	Molecular mechanism for depolarization-induced modulation of Kv channel closure. <i>Journal of General Physiology</i> , 2012, 140, 481-493.	0.9	39
34	Intermediate state trapping of a voltage sensor. <i>Journal of General Physiology</i> , 2012, 140, 635-652.	0.9	50
35	Position of the Second Gating Charge along S4 in an Intermediate Conformation of a K ⁺ Channel Voltage Sensor. <i>Biophysical Journal</i> , 2012, 102, 530a.	0.2	0
36	Probing S4 Length Changes during Gating with LRET. <i>Biophysical Journal</i> , 2012, 102, 265a.	0.2	0

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37	Reducing S3-S4 Linker Length in Shaker K ⁺ Channels Stabilizes the Relaxed State. <i>Biophysical Journal</i> , 2012, 102, 530a.	0.2	0
38	Tuning the Voltage-Sensor Motion with a Single Residue. <i>Biophysical Journal</i> , 2012, 103, L23-L25.	0.2	23
39	On the Role of the Difference in Surface Tensions Involved in the Allosteric Regulation of NHE-1 Induced by Low to Mild Osmotic Pressure, Membrane Tension and Lipid Asymmetry. <i>Cell Biochemistry and Biophysics</i> , 2012, 63, 47-57.	0.9	9
40	Mutant SOD1 forms ion channel: Implications for ALS pathophysiology. <i>Neurobiology of Disease</i> , 2012, 45, 831-838.	2.1	24
41	The Nature of the Energy Barrier for the Charge Movement in Voltage-Sensors. <i>Biophysical Journal</i> , 2011, 100, 580a.	0.2	0
42	Gate Closure Strictly Follows Voltage-Sensor Movements in KV Channels. <i>Biophysical Journal</i> , 2011, 100, 580a-581a.	0.2	0
43	Properties of Deactivation Gating Currents in Shaker Channels. <i>Biophysical Journal</i> , 2011, 100, L28-L30.	0.2	40
44	Control of a final gating charge transition by a hydrophobic residue in the S2 segment of a K ⁺ channel voltage sensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6444-6449.	3.3	68
45	Controlling the Activity of a Phosphatase and Tensin Homolog (PTEN) by Membrane Potential. <i>Journal of Biological Chemistry</i> , 2011, 286, 17945-17953.	1.6	38
46	Two Structurally Distinct Pathways for the Voltage-Sensing S4 Helices. <i>Biophysical Journal</i> , 2010, 98, 313a.	0.2	0
47	Modular Nature of the Main Domains in Voltage Sensitive Phosphatases. <i>Biophysical Journal</i> , 2010, 98, 313a.	0.2	0
48	LRET Measurements In The Three Major Conformations Of The Shaker K Channel. <i>Biophysical Journal</i> , 2009, 96, 380a-381a.	0.2	0
49	Voltage-Dependent Conformational Changes of the Voltage Sensor of KVAP Measured with LRET. <i>Biophysical Journal</i> , 2009, 96, 484a.	0.2	0
50	Regulation of Na ⁺ /H ⁺ exchanger 1 allosteric balance by its localization in cholesterol- and caveolin-rich membrane microdomains. <i>Journal of Cellular Physiology</i> , 2008, 216, 207-220.	2.0	35
51	Kinetic Analysis of the Regulation of the Na ⁺ /H ⁺ Exchanger NHE-1 by Osmotic Shocks. <i>Biochemistry</i> , 2008, 47, 13674-13685.	1.2	27
52	A mechanism for the activation of the Na/H exchanger NHE-1 by cytoplasmic acidification and mitogens. <i>EMBO Reports</i> , 2004, 5, 91-96.	2.0	84