

MarÃ-a Queralt-MartÃ-n

List of Publications by Year in descending order

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54
papers

789
citations

516710

16
h-index

526287

27
g-index

57
all docs

57
docs citations

57
times ranked

1154
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynorphin A induces membrane permeabilization by formation of proteolipidic pores. Insights from electrophysiology and computational simulations. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 230-240.	4.1	4
2	Restricting α -synuclein transport into mitochondria by inhibition of α -synuclein-VDAC complexation as a potential therapeutic target for Parkinson's disease treatment. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	5.4	4
3	Single-molecule conformational dynamics of viroporin ion channels regulated by lipid-protein interactions. <i>Bioelectrochemistry</i> , 2021, 137, 107641.	4.6	9
4	Specific adsorption of trivalent cations in biological nanopores determines conductance dynamics and reverses ionic selectivity. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 1352-1362.	2.8	4
5	Assessing the Role of Electrostatic Interactions in the Mechanism of Beta-Barrel Channel Gating. <i>Biophysical Journal</i> , 2021, 120, 156a.	0.5	0
6	Dynorphin a Induces Membrane Permeabilization by Formation of Proteolipidic Pores. <i>Biophysical Journal</i> , 2021, 120, 142a.	0.5	0
7	Transport mechanisms of SARS-CoV-E viroporin in calcium solutions: Lipid-dependent Anomalous Mole Fraction Effect and regulation of pore conductance. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183590.	2.6	13
8	THE USE OF CHECKLISTS IN LABORATORY CLASS OF PHYSICS. , 2021, , .		0
9	Molecular mechanism of olesoxime-mediated neuroprotection through targeting α -synuclein interaction with mitochondrial VDAC. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 3611-3626.	5.4	39
10	Gating of Bacterial Beta-Barrel Channels is Regulated by Salt Concentration and Lipid Composition. <i>Biophysical Journal</i> , 2020, 118, 416a.	0.5	0
11	Reduced Affinity of Mitochondrial VDAC3 for Cytosolic Proteins Reveals a Mechanism for VDAC Isoform-Specific Physiology. <i>Biophysical Journal</i> , 2020, 118, 448a.	0.5	0
12	VDAC Gating Thermodynamics, but Not Gating Kinetics, Are Virtually Temperature Independent. <i>Biophysical Journal</i> , 2020, 119, 2584-2592.	0.5	10
13	Targeting the Multiple Physiologic Roles of VDAC With Steroids and Hydrophobic Drugs. <i>Frontiers in Physiology</i> , 2020, 11, 446.	2.8	24
14	Mechanism of Alpha-Synuclein Translocation into Mitochondria. <i>Biophysical Journal</i> , 2020, 118, 444a-445a.	0.5	0
15	Dynamic Plasticity of Mitochondrial VDAC2 Revealed by Single-Molecule Electrophysiology. <i>Biophysical Journal</i> , 2020, 118, 273a.	0.5	0
16	A lower affinity to cytosolic proteins reveals VDAC3 isoform-specific role in mitochondrial biology. <i>Journal of General Physiology</i> , 2020, 152, .	1.9	36
17	Multiple neurosteroid and cholesterol binding sites in voltage-dependent anion channel-1 determined by photo-affinity labeling. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2019, 1864, 1269-1279.	2.4	26
18	Mechanistic Insights into Voltage-Induced Closure of Bacterial Beta-Barrel Channels. <i>Biophysical Journal</i> , 2019, 116, 401a.	0.5	1

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19	Effect of Steroids on Mitochondrial Metabolite Channel Function and Lipid Membrane Properties. <i>Biophysical Journal</i> , 2019, 116, 269a.	0.5	0
20	Interfacial Effects of Ion Channels in Lipid Membranes: Mean-Field Computation from 3D Atomic Structures Versus Analytical Estimates. <i>Biophysical Journal</i> , 2019, 116, 219a.	0.5	0
21	Human VDAC3 Forms VDAC1-Type Anionic Channels that are High-Conducting, Permeable to Metabolites, and Regulated by Cytosolic Proteins. <i>Biophysical Journal</i> , 2019, 116, 155a.	0.5	1
22	Lipid Headgroup Charge and Acyl Chain Composition Modulate Closure of Bacterial β -Barrel Channels. <i>International Journal of Molecular Sciences</i> , 2019, 20, 674.	4.1	11
23	Assessing the role of residue E73 and lipid headgroup charge in VDAC1 voltage gating. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2019, 1860, 22-29.	1.0	27
24	Interfacial Effects Dominate Ion Permeation through Membrane Channels in Low Ionic Strength Solutions. <i>Biophysical Journal</i> , 2018, 114, 260a.	0.5	0
25	Assessing the Role of Residue E73 in VDAC1 Voltage Gating. <i>Biophysical Journal</i> , 2018, 114, 660a.	0.5	0
26	Scaling Behavior of Ionic Transport in Membrane Nanochannels. <i>Nano Letters</i> , 2018, 18, 6604-6610.	9.1	20
27	Role of Severe Acute Respiratory Syndrome Coronavirus Viroporins E, 3a, and 8a in Replication and Pathogenesis. <i>MBio</i> , 2018, 9, .	4.1	248
28	Scaling Laws for Ionic Transport in Nanochannels: Bulk, Surface and Interfacial Effects. <i>Biophysical Journal</i> , 2018, 114, 609a.	0.5	0
29	Fluctuation-Driven Transport in Bacterial Channels under Acidic Stress. <i>Biophysical Journal</i> , 2017, 112, 545a.	0.5	0
30	Channel-Inactivating Mutations and Their Revertant Mutants in the Envelope Protein of Infectious Bronchitis Virus. <i>Journal of Virology</i> , 2017, 91, .	3.4	27
31	Ion Transport in Confined Geometries below the Nanoscale: Access Resistance Dominates Protein Channel Conductance in Diluted Solutions. <i>ACS Nano</i> , 2017, 11, 10392-10400.	14.6	30
32	Fluctuation-Driven Transport in Biological Nanopores. A 3D Poissonâ€Nernstâ€Planck Study. <i>Entropy</i> , 2017, 19, 116.	2.2	7
33	Buried Charges and their Effect on Ion Channel Selectivity. Analytical Solutions, Numerical Calculations and MD Simulations. <i>Biophysical Journal</i> , 2016, 110, 245a.	0.5	0
34	On the different sources of cooperativity in pH titrating sites of a membrane protein channel. <i>European Physical Journal E</i> , 2016, 39, 29.	1.6	2
35	Effects of extreme pH on ionic transport through protein nanopores: the role of ion diffusion and charge exclusion. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21668-21675.	2.8	10
36	Stochastic pumping of ions based on colored noise in bacterial channels under acidic stress. <i>Nanoscale</i> , 2016, 8, 13422-13428.	5.6	12

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37	Excess white noise to probe transport mechanisms in a membrane channel. <i>Physical Review E</i> , 2015, 91, 062704.	2.1	4
38	Current Fluctuation Analysis in a Protein Nanopore. <i>Biophysical Journal</i> , 2015, 108, 634a.	0.5	0
39	Bacterial Porins. <i>Springer Series in Biophysics</i> , 2015, , 101-121.	0.4	0
40	Entropy-enthalpy compensation at the single protein level: pH sensing in the bacterial channel OmpF. <i>Nanoscale</i> , 2014, 6, 15210-15215.	5.6	7
41	Experimental demonstration of charge inversion in a protein channel in the presence of monovalent cations. <i>Electrochemistry Communications</i> , 2014, 48, 32-34.	4.7	8
42	Experimental Observation of Surface Charge Inversion in a Biological Nanopore in Presence of Monovalent and Multivalent Cations. <i>Biophysical Journal</i> , 2014, 106, 210a.	0.5	0
43	Electrical Pumping of Potassium Ions Against an External Concentration Gradient in a Biological Ion Channel. <i>Biophysical Journal</i> , 2014, 106, 416a.	0.5	0
44	Electrical pumping of potassium ions against an external concentration gradient in a biological ion channel. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	36
45	Electrostatic Interactions Drive the Nonsteric Directional Block of OmpF Channel by La^{3+} . <i>Langmuir</i> , 2013, 29, 15320-15327.	3.5	10
46	La^{3+} -Induced Asymmetric Current Inhibition in OmpF Channel. <i>Biophysical Journal</i> , 2013, 104, 630a.	0.5	0
47	Protein Ion Channels as Molecular Ratchets. Switchable Current Modulation in Outer Membrane Protein F Porin Induced by Millimolar La^{3+} Ions. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6537-6542.	3.1	28
48	Increased salt concentration promotes competitive block of OmpF channel by protons. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2777-2782.	2.6	16
49	Probing Tubulin-Blocked State of VDAC by Varying Membrane Surface Charge. <i>Biophysical Journal</i> , 2012, 102, 2070-2076.	0.5	20
50	Entropic Modulation of Ion Transport through OmpF Channel. Molecular Basis of pH Sensing Derived from Cooperative Interactions. <i>Biophysical Journal</i> , 2012, 102, 269a-270a.	0.5	1
51	Divalent cations reduce the pH sensitivity of OmpF channel inducing the pK_a shift of key acidic residues. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 563-569.	2.8	18
52	Insights on the permeability of wide protein channels: measurement and interpretation of ion selectivity. <i>Integrative Biology (United Kingdom)</i> , 2011, 3, 159-172.	1.3	49
53	Pinning and Avalanches in Hydrophobic Microchannels. <i>Physical Review Letters</i> , 2011, 106, 194501.	7.8	27
54	Divalent Cations Reduce the pH Sensitivity of OmpF Channel Inducing the pK_a Shift of Key Acidic Residues. <i>Biophysical Journal</i> , 2011, 100, 331a.	0.5	0