

JosÃ© D Faraldo-GÃ³mez

List of Publications by Year in descending order

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65
papers

3,720
citations

147801

31
h-index

138484

58
g-index

78
all docs

78
docs citations

78
times ranked

4338
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of the yeast F ₁ F _o -ATP synthase dimer and its role in shaping the mitochondrial cristae. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13602-13607.	7.1	413
2	Acquisition of siderophores in Gram-negative bacteria. <i>Nature Reviews Molecular Cell Biology</i> , 2003, 4, 105-116.	37.0	349
3	High-resolution structure of the rotor ring of a proton-dependent ATP synthase. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1068-1073.	8.2	194
4	High-resolution cryo-EM analysis of the yeast ATP synthase in a lipid membrane. <i>Science</i> , 2018, 360, .	12.6	163
5	Microscopic rotary mechanism of ion translocation in the Fo complex of ATP synthases. <i>Nature Chemical Biology</i> , 2010, 6, 891-899.	8.0	142
6	Coupling of remote alternating-access transport mechanisms for protons and substrates in the multidrug efflux pump AcrB. <i>ELife</i> , 2014, 3, .	6.0	137
7	Structure of the c10 ring of the yeast mitochondrial ATP synthase in the open conformation. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 485-491.	8.2	116
8	Promiscuous archaeal ATP synthase concurrently coupled to Na ⁺ and H ⁺ translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 947-952.	7.1	113
9	Electrostatics of Ion Stabilization in a ClC Chloride Channel Homologue from <i>Escherichia coli</i> . <i>Journal of Molecular Biology</i> , 2004, 339, 981-1000.	4.2	111
10	Structure of Human ATG9A, the Only Transmembrane Protein of the Core Autophagy Machinery. <i>Cell Reports</i> , 2020, 31, 107837.	6.4	108
11	Complete Ion-Coordination Structure in the Rotor Ring of Na ⁺ -Dependent F-ATP Synthases. <i>Journal of Molecular Biology</i> , 2009, 391, 498-507.	4.2	98
12	Conformational sampling and dynamics of membrane proteins from 10-nanosecond computer simulations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2004, 57, 783-791.	2.6	92
13	Engineering rotor ring stoichiometries in the ATP synthase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1599-608.	7.1	89
14	Mechanism of extracellular ion exchange and binding-site occlusion in a sodium/calcium exchanger. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 590-599.	8.2	75
15	Ensemble-Biased Metadynamics: A Molecular Simulation Method to Sample Experimental Distributions. <i>Biophysical Journal</i> , 2015, 108, 2779-2782.	0.5	71
16	Atomistic simulations indicate the c-subunit ring of the F ₁ F _o ATP synthase is not the mitochondrial permeability transition pore. <i>ELife</i> , 2017, 6, .	6.0	71
17	Structural insights into the mechanism of activation of the TRPV1 channel by a membrane-bound tarantula toxin. <i>ELife</i> , 2016, 5, .	6.0	71
18	High-resolution structure and mechanism of an F/V-hybrid rotor ring in a Na ⁺ -coupled ATP synthase. <i>Nature Communications</i> , 2014, 5, 5286.	12.8	68

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19	A New Type of Na ⁺ -Driven ATP Synthase Membrane Rotor with a Two-Carboxylate Ion-Coupling Motif. <i>PLoS Biology</i> , 2013, 11, e1001596.	5.6	61
20	GRIFFIN: A Versatile Methodology for Optimization of Protein~Lipid Interfaces for Membrane Protein Simulations. <i>Journal of Chemical Theory and Computation</i> , 2011, 7, 1167-1176.	5.3	60
21	Sodium recognition by the Na ⁺ /Ca ²⁺ exchanger in the outward-facing conformation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5354-62.	7.1	59
22	Structural and energetic basis for H ⁺ versus Na ⁺ binding selectivity in ATP synthase Fo rotors. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 763-772.	1.0	58
23	An embedded lipid in the multidrug transporter LmrP suggests a mechanism for polyspecificity. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 829-835.	8.2	57
24	Mitochondrial ATP synthase dimers spontaneously associate due to a long-range membrane-induced force. <i>Journal of General Physiology</i> , 2018, 150, 763-770.	1.9	56
25	Structure of the Shaker Kv channel and mechanism of slow C-type inactivation. <i>Science Advances</i> , 2022, 8, eabm7814.	10.3	49
26	TRPV1 pore turret dictates distinct DkTx and capsaicin gating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E11837-E11846.	7.1	45
27	Characterization of conformational equilibria through Hamiltonian and temperature replica-exchange simulations: Assessing entropic and environmental effects. <i>Journal of Computational Chemistry</i> , 2007, 28, 1634-1647.	3.3	44
28	On the Structure of the Proton-Binding Site in the Fo Rotor of Chloroplast ATP Synthases. <i>Journal of Molecular Biology</i> , 2010, 395, 20-27.	4.2	43
29	Large-scale state-dependent membrane remodeling by a transporter protein. <i>ELife</i> , 2019, 8, .	6.0	42
30	On the principle of ion selectivity in Na ⁺ /H ⁺ -coupled membrane proteins: Experimental and theoretical studies of an ATP synthase rotor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1057-66.	7.1	41
31	Membrane transporter dimerization driven by differential lipid solvation energetics of dissociated and associated states. <i>ELife</i> , 2021, 10, .	6.0	39
32	Confidence Analysis of DEER Data and Its Structural Interpretation with Ensemble-Biased Metadynamics. <i>Biophysical Journal</i> , 2018, 115, 1200-1216.	0.5	38
33	Structure and Mechanism of DHHC Protein Acyltransferases. <i>Journal of Molecular Biology</i> , 2020, 432, 4983-4998.	4.2	36
34	Evidence for an allosteric mechanism of substrate release from membrane-transporter accessory binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1285-92.	7.1	34
35	Two-state dynamics of the SH3~SH2 tandem of Abl kinase and the allosteric role of the N-cap. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3372-80.	7.1	33
36	Asymmetry of inverted-topology repeats in the AE1 anion exchanger suggests an elevator-like mechanism. <i>Journal of General Physiology</i> , 2017, 149, 1149-1164.	1.9	32

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37	Bedaquiline inhibits the yeast and human mitochondrial ATP synthases. <i>Communications Biology</i> , 2020, 3, 452.	4.4	32
38	Molecular mechanisms of human P2X3 receptor channel activation and modulation by divalent cation bound ATP. <i>ELife</i> , 2019, 8, .	6.0	30
39	Interpretation of HDX Data by Maximum-Entropy Reweighting of Simulated Structural Ensembles. <i>Biophysical Journal</i> , 2020, 118, 1649-1664.	0.5	28
40	The prokaryotic Na ⁺ /Ca ²⁺ exchanger NCX_Mj transports Na ⁺ and Ca ²⁺ in a 3:1 stoichiometry. <i>Journal of General Physiology</i> , 2018, 150, 51-65.	1.9	27
41	String Method for Calculation of Minimum Free-Energy Paths in Cartesian Space in Freely Tumbling Systems. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 4140-4154.	5.3	26
42	Direct Derivation of Free Energies of Membrane Deformation and Other Solvent Density Variations From Enhanced Sampling Molecular Dynamics. <i>Journal of Computational Chemistry</i> , 2020, 41, 449-459.	3.3	26
43	Broadly conserved Na ⁺ -binding site in the N-lobe of prokaryotic multidrug MATE transporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6172-E6181.	7.1	25
44	ATP Synthase â€” A Paradigmatic Molecular Machine. , 2011, , 208-238.		20
45	On the Question of Hydronium Binding to ATP-Synthase Membrane Rotors. <i>Biophysical Journal</i> , 2010, 99, L53-L55.	0.5	19
46	Modeling and simulation of ion-coupled and ATP-driven membrane proteins. <i>Current Opinion in Structural Biology</i> , 2011, 21, 173-179.	5.7	19
47	Structure and mechanism of the ATP synthase membrane motor inferred from quantitative integrative modeling. <i>Journal of General Physiology</i> , 2016, 148, 441-457.	1.9	17
48	Ceramideâ€”lipid interactions studied by MD simulations and solid-state NMR. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2511-2519.	2.6	16
49	New Molecular-Mechanics Model for Simulations of Hydrogen Fluoride in Chemistry and Biology. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5105-5126.	5.3	15
50	Bivalent recognition of fatty acyl-CoA by a human integral membrane palmitoyltransferase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	15
51	Asymmetric drug binding in an ATP-loaded inward-facing state of an ABC transporter. <i>Nature Chemical Biology</i> , 2022, 18, 226-235.	8.0	15
52	DHHC20 Palmitoyl-Transferase Reshapes the Membrane to Foster Catalysis. <i>Biophysical Journal</i> , 2020, 118, 980-988.	0.5	10
53	Differential ion dehydration energetics explains selectivity in the non-canonical lysosomal K ⁺ channel TMEM175. <i>ELife</i> , 0, 11, .	6.0	9
54	Atomicâ€”resolution dissection of the energetics and mechanism of isomerization of hydrated Mg^{2+} through the SOMA string method. <i>Journal of Computational Chemistry</i> , 2016, 37, 575-586.	3.3	8

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55	Conserved binding site in the N-lobe of prokaryotic MATE transporters suggests a role for Na ⁺ in ion-coupled drug efflux. <i>Journal of Biological Chemistry</i> , 2021, 296, 100262.	3.4	8
56	Corrections in the CHARMM36 Parametrization of Chloride Interactions with Proteins, Lipids, and Alkali Cations, and Extension to Other Halide Anions. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 6240-6261.	5.3	7
57	Force-Correction Analysis Method for Derivation of Multidimensional Free-Energy Landscapes from Adaptively Biased Replica Simulations. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 6775-6788.	5.3	7
58	Predicted Structures of the Proton-Bound Membrane-Embedded Rotor Rings of the <i>Saccharomyces cerevisiae</i> and <i>Escherichia coli</i> ATP Synthases. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3297-3307.	2.6	6
59	Membrane plasticity facilitates recognition of the inhibitor oligomycin by the mitochondrial ATP synthase rotor. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 789-796.	1.0	6
60	The structure of human ATG9A and its interplay with the lipid bilayer. <i>Autophagy</i> , 2020, 16, 2292-2293.	9.1	6
61	On the Role of a Conserved Methionine in the Na ⁺ -Coupling Mechanism of a Neurotransmitter Transporter Homolog. <i>Neurochemical Research</i> , 2021, , 1.	3.3	4
62	Interpreting hydrogen-deuterium exchange experiments with molecular simulations: Tutorials and applications of the HDXer ensemble reweighting software [Article v1.0]. <i>Living Journal of Computational Molecular Science</i> , 2022, 3, .	6.4	3
63	Conserved binding site in the N-lobe of prokaryotic MATE transporters suggests a role for Na in ion-coupled drug efflux. <i>Journal of Biological Chemistry</i> , 2021, , .	3.4	2
64	Channeling your inner energy. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 575-577.	8.2	1
65	Membrane physiologists of all kinds meet at Woods Hole. <i>Journal of General Physiology</i> , 2019, 151, 273-273.	1.9	0