

Vincenzo Carnevale

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

810
citations

471371

17
h-index

552653

26
g-index

40
all docs

40
docs citations

40
times ranked

1272
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural insights on TRPV5 gating by endogenous modulators. <i>Nature Communications</i> , 2018, 9, 4198.	5.8	118
2	TRPV1: A Target for Rational Drug Design. <i>Pharmaceuticals</i> , 2016, 9, 52.	1.7	85
3	Ion Channel Sensing: Are Fluctuations the Crux of the Matter?. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1260-1264.	2.1	43
4	Analysis of the Destabilization of Bacterial Membranes by Quaternary Ammonium Compounds: A Combined Experimental and Computational Study. <i>ChemBioChem</i> , 2020, 21, 1510-1516.	1.3	41
5	Hydration structure of Na ⁺ and K ⁺ from <i>ab initio</i> molecular dynamics based on modern density functional theory. <i>Molecular Physics</i> , 2014, 112, 1448-1456.	0.8	37
6	Does Proton Conduction in the Voltage-Gated H ⁺ Channel hHv1 Involve Grotthuss-Like Hopping via Acidic Residues?. <i>Journal of Physical Chemistry B</i> , 2017, 121, 3340-3351.	1.2	34
7	On the role of water density fluctuations in the inhibition of a proton channel. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8359-E8368.	3.3	33
8	Arranging Small Molecules with Subnanometer Precision on DNA Origami Substrates for the Single-Molecule Investigation of Protein-Ligand Interactions. <i>Small Structures</i> , 2020, 1, 2000038.	6.9	31
9	A hypothetical molecular mechanism for TRPV1 activation that invokes rotation of an S6 asparagine. <i>Journal of General Physiology</i> , 2018, 150, 1554-1566.	0.9	30
10	Assessment of Skeletal Muscle Mass in Older People: Comparison Between 2 Anthropometry-Based Methods and Dual-Energy X-ray Absorptiometry. <i>Journal of the American Medical Directors Association</i> , 2018, 19, 793-796.	1.2	29
11	The generative capacity of probabilistic protein sequence models. <i>Nature Communications</i> , 2021, 12, 6302.	5.8	28
12	Sites Contributing to TRPA1 Activation by the Anesthetic Propofol Identified by Photoaffinity Labeling. <i>Biophysical Journal</i> , 2017, 113, 2168-2172.	0.2	26
13	Conformational dynamics in TRPV1 channels reported by an encoded coumarin amino acid. <i>ELife</i> , 2017, 6, .	2.8	25
14	Propofol inhibits the voltage-gated sodium channel NaChBac at multiple sites. <i>Journal of General Physiology</i> , 2018, 150, 1317-1331.	0.9	22
15	Investigations of water/oxide interfaces by molecular dynamics simulations. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2021, 11, e1537.	6.2	21
16	Suppression of Zika Virus Infection in the Brain by the Antiretroviral Drug Rilpivirine. <i>Molecular Therapy</i> , 2019, 27, 2067-2079.	3.7	20
17	Sodium Halide Adsorption and Water Structure at the γ -Alumina(0001)/Water Interface. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15618-15628.	1.5	19
18	First-Principles Calculation of Water p_K Using the Newly Developed SCAN Functional. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 54-59.	2.1	19

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19	Probing ion channel functional architecture and domain recombination compatibility by massively parallel domain insertion profiling. <i>Nature Communications</i> , 2021, 12, 7114.	5.8	19
20	TRPA1 modulation by piperidine carboxamides suggests an evolutionarily conserved binding site and gating mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26008-26019.	3.3	18
21	Propofol inhibits prokaryotic voltage-gated Na ⁺ channels by promoting activation-coupled inactivation. <i>Journal of General Physiology</i> , 2018, 150, 1299-1316.	0.9	17
22	Dual regulation of TRPV1 channels by phosphatidylinositol via functionally distinct binding sites. <i>Journal of Biological Chemistry</i> , 2021, 296, 100573.	1.6	16
23	Molecular simulations and free-energy calculations suggest conformation-dependent anion binding to a cytoplasmic site as a mechanism for Na ⁺ /K ⁺ -ATPase ion selectivity. <i>Journal of Biological Chemistry</i> , 2017, 292, 12412-12423.	1.6	12
24	Small molecule modulation of voltage gated sodium channels. <i>Current Opinion in Structural Biology</i> , 2017, 43, 156-162.	2.6	10
25	Polyamine blockade and binding energetics in the MthK potassium channel. <i>Journal of General Physiology</i> , 2020, 152, .	0.9	10
26	Modeling solvation effects on absorption and fluorescence spectra of indole in aqueous solution. <i>Journal of Chemical Physics</i> , 2021, 154, 064104.	1.2	9
27	Permeating disciplines: Overcoming barriers between molecular simulations and classical structure-function approaches in biological ion transport. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 927-942.	1.4	8
28	Estimated Glomerular Filtration Rate and Muscle Mass: Their Relationship in Older Inpatients. <i>Journal of the American Medical Directors Association</i> , 2019, 20, 1469-1471.	1.2	7
29	Binding Sites and the Mechanism of Action of Propofol and a Photoreactive Analogue in Prokaryotic Voltage-Gated Sodium Channels. <i>ACS Chemical Neuroscience</i> , 2021, 12, 3898-3914.	1.7	3
30	Microcanonical coarse-graining of the kinetic Ising model. <i>Journal of Chemical Physics</i> , 2020, 152, 084104.	1.2	2
31	Particle-based Ising model. <i>Physical Review E</i> , 2021, 103, 012125.	0.8	2
32	Left Ventricular Mass and Parameters of Body Composition in Older Adults. <i>Mayo Clinic Proceedings</i> , 2022, 97, 626-628.	1.4	2
33	Epistasis Creates Invariant Sites and Modulates the Rate of Molecular Evolution. <i>Molecular Biology and Evolution</i> , 2022, 39, .	3.5	2
34	Reply to Estimated Glomerular Filtration Rate and Muscle Mass in Older Patients: Diagnostic Accuracy of Creatinine-Based Equations and Implications in Practice. <i>Journal of the American Medical Directors Association</i> , 2020, 21, 567.	1.2	0