

Michael E Green

List of Publications by Year in descending order

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26
papers

325
citations

840776

11
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31
docs citations

31
times ranked

178
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum mechanical calculations of charge effects on gating the KcsA channel. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007, 1768, 1218-1229.	2.6	25
2	Intermolecular Proton Transfer between Two Methylamine Molecules with an External Electric Field in the Gas Phase. <i>Journal of Physical Chemistry A</i> , 1998, 102, 7181-7190.	2.5	24
3	Water proton transfer and hydrogen bonding in ion channel gating. <i>Frontiers in Bioscience - Landmark</i> , 2003, 8, s1356-1370.	3.0	24
4	Ion channel gating and proton transport. <i>Computational and Theoretical Chemistry</i> , 2003, 630, 297-307.	1.5	21
5	Voltage Gated Ion Channel Function: Gating, Conduction, and the Role of Water and Protons. <i>International Journal of Molecular Sciences</i> , 2012, 13, 1680-1709.	4.1	21
6	PHOTOREDUCTION OF METHYLENE BLUE BY WATER. <i>Photochemistry and Photobiology</i> , 1973, 17, 179-190.	2.5	20
7	Topological Changes of Hydrogen Bonding of Water with Acetic Acid: AIM and NBO Studies. <i>Journal of Physical Chemistry A</i> , 2004, 108, 6543-6553.	2.5	17
8	A Resonance Model Gives the Response to Membrane Potential for an Ion Channel. <i>Journal of Theoretical Biology</i> , 1998, 193, 475-483.	1.7	14
9	Water As A Structural Element In A Channel: Gating In The Kcsa Channel, And Implications For Voltage-Gated Ion Channels. <i>Journal of Biomolecular Structure and Dynamics</i> , 2002, 19, 725-730.	3.5	14
10	A possible role for phosphate in complexing the arginines of S4 in voltage gated channels. <i>Journal of Theoretical Biology</i> , 2005, 233, 337-341.	1.7	14
11	A model for ion channel voltage gating with static S4 segments. <i>Ferroelectrics</i> , 1999, 220, 249-271.	0.6	13
12	Quantum Mechanical Calculations on Selectivity in the KcsA Channel: The Role of the Aqueous Cavity. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1293-1298.	2.6	13
13	Quantum Calculation of Proton and Other Charge Transfer Steps in Voltage Sensing in the Kv1.2 Channel. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7984-7998.	2.6	12
14	Surface states of anthracene and naphthalene. <i>Journal of Chemical Physics</i> , 1973, 58, 2507-2516.	3.0	10
15	Quantum calculations on salt bridges with water: Potentials, structure, and properties. <i>Computational and Theoretical Chemistry</i> , 2011, 963, 207-214.	2.5	10
16	Voltage gating and anions, especially phosphate: A model system. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005, 1717, 97-103.	2.6	9
17	Caution Is Required in Interpretation of Mutations in the Voltage Sensing Domain of Voltage Gated Channels as Evidence for Gating Mechanisms. <i>International Journal of Molecular Sciences</i> , 2015, 16, 1627-1643.	4.1	9
18	Electrorheological effects and gating of membrane channels. <i>Journal of Theoretical Biology</i> , 1989, 138, 413-428.	1.7	8

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19	A Resonance Model gives the Response to Membrane Potential for an Ion Channel: II. Simplification of the Calculation, and Prediction of Stochastic Resonance. <i>Journal of Theoretical Biology</i> , 2000, 206, 387-393.	1.7	8
20	Quantum Calculations on Ion Channels: Why Are They More Useful Than Classical Calculations, and for Which Processes Are They Essential?. <i>Symmetry</i> , 2021, 13, 655.	2.2	8
21	Quantum calculations on water in the KcsA channel cavity with permeant and non-permeant ions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1188-1192.	2.6	7
22	Ab Initio Calculations on a Critical Part of a Protein, with an H5O2 Partially Charged Group in a Central Role. <i>Journal of Physical Chemistry B</i> , 2001, 105, 5298-5303.	2.6	6
23	The Role of Proton Transport in Gating Current in a Voltage Gated Ion Channel, as Shown by Quantum Calculations. <i>Sensors</i> , 2018, 18, 3143.	3.8	6
24	Consequences of phosphate-arginine complexes in voltage gated ion channels. <i>Channels</i> , 2008, 2, 395-400.	2.8	5
25	Quantum Effects in a Simple Ring with Hydrogen Bonds. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5962-5969.	2.6	3
26	Quantum Calculations on a Voltage Sensing Domain of KV1.2: H+ Transfer and Gating Current. <i>Biophysical Journal</i> , 2018, 114, 475a.	0.5	1