Michael E Green

List of Publications by Year
in descending order

26	325	840776 11	940533 16
papers	citations	h-index	g-index

31	31	31	178
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantum Calculations on Ion Channels: Why Are They More Useful Than Classical Calculations, and for Which Processes Are They Essential?. Symmetry, 2021, 13, 655.	2.2	8
2	Quantum Calculation of Proton and Other Charge Transfer Steps in Voltage Sensing in the Kv1.2 Channel. Journal of Physical Chemistry B, 2019, 123, 7984-7998.	2.6	12
3	Quantum Calculations on a Voltage Sensing Domain of KV1.2: H+ Transfer and Gating Current. Biophysical Journal, 2018, 114, 475a.	0.5	1
4	The Role of Proton Transport in Gating Current in a Voltage Gated Ion Channel, as Shown by Quantum Calculations. Sensors, 2018, 18, 3143.	3.8	6
5	Caution Is Required in Interpretation of Mutations in the Voltage Sensing Domain of Voltage Gated Channels as Evidence for Gating Mechanisms. International Journal of Molecular Sciences, 2015, 16, 1627-1643.	4.1	9
6	Quantum Effects in a Simple Ring with Hydrogen Bonds. Journal of Physical Chemistry B, 2015, 119, 5962-5969.	2.6	3
7	Voltage Gated Ion Channel Function: Gating, Conduction, and the Role of Water and Protons. International Journal of Molecular Sciences, 2012, 13, 1680-1709.	4.1	21
8	Quantum calculations on salt bridges with water: Potentials, structure, and properties. Computational and Theoretical Chemistry, 2011, 963, 207-214.	2.5	10
9	Quantum calculations on water in the KcsA channel cavity with permeant and non-permeant ions. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1188-1192.	2.6	7
10	Quantum Mechanical Calculations on Selectivity in the KcsA Channel:â€‰ The Role of the Aqueous Cavity. Journal of Physical Chemistry B, 2008, 112, 1293-1298.	2.6	13
11	Consequences of phosphate-arginine complexes in voltage gated ion channels. Channels, 2008, 2, 395-400.	2.8	5
12	Quantum mechanical calculations of charge effects on gating the KcsA channel. Biochimica Et Biophysica Acta - Biomembranes, 2007, 1768, 1218-1229.	2.6	25
13	A possible role for phosphate in complexing the arginines of S4 in voltage gated channels. Journal of Theoretical Biology, 2005, 233, 337-341.	1.7	14
14	Voltage gating and anions, especially phosphate: A model system. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1717, 97-103.	2.6	9
15	Topological Changes of Hydrogen Bonding of Water with Acetic Acid:â€‰ AIM and NBO Studies. Journal of Physical Chemistry A, 2004, 108, 6543-6553.	2.5	17
16	Ion channel gating and proton transport. Computational and Theoretical Chemistry, 2003, 630, 297-307.	1.5	21
17	Water proton transfer and hydrogen bonding in ion channel gating. Frontiers in Bioscience - Landmark, 2003, 8, s1356-1370.	3.0	24
18	Water As A Structural Element In A Channel: Gating In The Kcsa Channel, And Implications For Voltage-Gated Ion Channels. Journal of Biomolecular Structure and Dynamics, 2002, 19, 725-730.	3.5	14

#	Article	IF	Citations
19	Ab Initio Calculations on a Critical Part of a Protein, with an H5O2Partially Charged Group in a Central Role. Journal of Physical Chemistry B, 2001, 105, 5298-5303.	2.6	6
20	A Resonance Model gives the Response to Membrane Potential for an Ion Channel: II. Simplification of the Calculation, and Prediction of Stochastic Resonance. Journal of Theoretical Biology, 2000, 206, 387-393.	1.7	8
21	A model for ion channel voltage gating with static S4 segments. Ferroelectrics, 1999, 220, 249-271.	0.6	13
22	A Resonance Model Gives the Response to Membrane Potential for an Ion Channel. Journal of Theoretical Biology, 1998, 193, 475-483.	1.7	14
23	Intermolecular Proton Transfer between Two Methylamine Molecules with an External Electric Field in the Gas Phase. Journal of Physical Chemistry A, 1998, 102, 7181-7190.	2.5	24
24	Electrorheological effects and gating of membrane channels. Journal of Theoretical Biology, 1989, 138, 413-428.	1.7	8
25	PHOTOREDUCTION OF METHYLENE BLUE BY WATER. Photochemistry and Photobiology, 1973, 17, 179-190.	2.5	20
26	Surface states of anthracene and naphthalene. Journal of Chemical Physics, 1973, 58, 2507-2516.	3.0	10