

Ronald J Clarke

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108
papers

3,067
citations

32
h-index

51
g-index

120
ext. papers

3,369
ext. citations

3.2
avg, IF

5.28
L-index

#	Paper	IF	Citations
108	The dipole potential of phospholipid membranes and methods for its detection. <i>Advances in Colloid and Interface Science</i> , 2001 , 89-90, 263-81	14.3	208
107	Influence of anions and cations on the dipole potential of phosphatidylcholine vesicles: a basis for the Hofmeister effect. <i>Biophysical Journal</i> , 1999 , 76, 2614-24	2.9	175
106	Inclusion Complexes of the Cyclomalto-Oligosaccharides (Cyclodextrins). <i>Advances in Carbohydrate Chemistry and Biochemistry</i> , 1988 , 46, 205-249	3.7	140
105	Cholesterol effect on the dipole potential of lipid membranes. <i>Biophysical Journal</i> , 2006 , 90, 4060-70	2.9	119
104	Optical detection of membrane dipole potential: avoidance of fluidity and dye-induced effects. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997 , 1323, 223-39	3.8	115
103	Mechanisms of cell uptake and toxicity of the anticancer drug cisplatin. <i>Metallomics</i> , 2014 , 6, 2126-33	4.5	104
102	Effect of lipid structure on the dipole potential of phosphatidylcholine bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997 , 1327, 269-78	3.8	103
101	Hydrophobic ion hydration and the magnitude of the dipole potential. <i>Biophysical Journal</i> , 2002 , 82, 3081-8	3.8	73
100	Stopped-flow kinetic investigations of conformational changes of pig kidney Na ⁺ ,K ⁺ -ATPase. <i>Biochemistry</i> , 1997 , 36, 13406-20	3.2	62
99	Mechanism of cytotoxicity and cellular uptake of lipophilic inert dinuclear polypyridylruthenium(II) complexes. <i>ChemMedChem</i> , 2011 , 6, 848-58	3.7	61
98	Volumetric, viscosimetric and surface properties of aqueous solutions of triethylene glycol, tetraethylene glycol, and tetraethylene glycol dimethyl ether. <i>Journal of Molecular Liquids</i> , 2013 , 177, 11-18	6	58
97	Rate limitation of the Na ⁽⁺⁾ ,K ⁽⁺⁾ -ATPase pump cycle. <i>Biophysical Journal</i> , 2001 , 81, 2069-81	2.9	53
96	Electric field strength of membrane lipids from vertebrate species: membrane lipid composition and Na ⁺ -K ⁺ -ATPase molecular activity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 288, R663-70	3.2	52
95	Mg ²⁺ -induced tRNA folding. <i>Biochemistry</i> , 2001 , 40, 6688-98	3.2	51
94	Effect of headgroup on the dipole potential of phospholipid vesicles. <i>European Biophysics Journal</i> , 2009 , 39, 103-10	1.9	49
93	Voltage sensitivity of the fluorescent probe RH421 in a model membrane system. <i>Biophysical Journal</i> , 1995 , 68, 1406-15	2.9	47
92	Potassium-activated GTPase reaction in the G Protein-coupled ferrous iron transporter B. <i>Journal of Biological Chemistry</i> , 2010 , 285, 14594-602	5.4	44

91	Kinetic and equilibrium studies of cyclomalto-octaose (β -cyclodextrin)-methyl orange inclusion complexes. <i>Carbohydrate Research</i> , 1984 , 127, 181-191	2.9	43
90	Comparison of excitation and emission ratiometric fluorescence methods for quantifying the membrane dipole potential. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 107-14	3.8	42
89	Kinetics of Na(+)-dependent conformational changes of rabbit kidney Na ⁺ ,K(+)-ATPase. <i>Biophysical Journal</i> , 1998 , 75, 1340-53	2.9	42
88	The nitric oxide donor sodium nitroprusside stimulates the Na ⁺ -K ⁺ pump in isolated rabbit cardiac myocytes. <i>Journal of Physiology</i> , 2005 , 565, 815-25	3.9	41
87	Susceptibility of β Na ⁺ -K ⁺ pump subunit to glutathionylation and oxidative inhibition depends on conformational state of pump. <i>Journal of Biological Chemistry</i> , 2012 , 287, 12353-64	5.4	39
86	Two gears of pumping by the sodium pump. <i>Biophysical Journal</i> , 2007 , 93, 4187-96	2.9	36
85	Time-resolved fluorescence investigations of the interaction of the voltage-sensitive probe RH421 with lipid membranes and proteins. <i>Biochemistry</i> , 1995 , 34, 11777-84	3.2	36
84	Peptide Ligation at High Dilution via Reductive Diselenide-Selenoester Ligation. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1090-1100	16.4	36
83	Structural basis of GDP release and gating in G protein coupled Fe ²⁺ transport. <i>EMBO Journal</i> , 2009 , 28, 2677-85	13	35
82	P(3)-[2-(4-hydroxyphenyl)-2-oxo]ethyl ATP for the rapid activation of the Na(+),K(+)-ATPase. <i>Biophysical Journal</i> , 2000 , 79, 1346-57	2.9	34
81	Allosteric effect of ATP on Na(+),K(+)-ATPase conformational kinetics. <i>Biochemistry</i> , 2007 , 46, 7034-44	3.2	33
80	Mechanism of the rate-determining step of the Na(+),K(+)-ATPase pump cycle. <i>Biochemistry</i> , 2002 , 41, 9496-507	3.2	33
79	Mechanism of Action of Surface Immobilized Antimicrobial Peptides Against. <i>Frontiers in Microbiology</i> , 2019 , 10, 3053	5.7	32
78	Orientalional polarisability of lipid membrane surfaces. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2007 , 1768, 562-70	3.8	32
77	A stopped-flow kinetic study of the interaction of potential-sensitive oxonol dyes with lipid vesicles. <i>Biophysical Chemistry</i> , 1989 , 34, 225-37	3.5	31
76	Quantitative calculation of the role of the Na(+),K(+)-ATPase in thermogenesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013 , 1827, 1205-12	4.6	30
75	Dephosphorylation kinetics of pig kidney Na ⁺ ,K ⁺ -ATPase. <i>Biochemistry</i> , 1998 , 37, 4581-91	3.2	30
74	Solvent dependence of the photochemistry of the styrylpyridinium dye RH421. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 6513-20	3.4	29

73	Kinetics of the Solubilization of Styryl Dye Aggregates by Lipid Vesicles. <i>The Journal of Physical Chemistry</i> , 1994 , 98, 1732-1738		27
72	Hofmeister effects of anions on the kinetics of partial reactions of the Na ⁺ ,K ⁺ -ATPase. <i>Biophysical Journal</i> , 1999 , 77, 267-81	2.9	26
71	Densities, Viscosities, and Surface Tensions of the System Water + Diethylene Glycol. <i>Journal of Chemical & Engineering Data</i> , 2011 , 56, 303-306	2.8	24
70	Alloxan-induced diabetes reduces sarcolemmal Na ⁺ -K ⁺ pump function in rabbit ventricular myocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 292, C1070-7	5.4	24
69	Examination of the photophysical processes of chlorophyll d leading to a clarification of proposed uphill energy transfer processes in cells of <i>Acaryochloris marinas</i> . <i>Photochemistry and Photobiology</i> , 2003 , 77, 628-37	3.6	24
68	Spectroscopic investigations of the potential-sensitive membrane probe RH421. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992 , 1112, 142-52	3.8	23
67	Interaction of N-terminal peptide analogues of the Na,K-ATPase with membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 1282-1291	3.8	22
66	Identification of potential regulatory sites of the Na ⁺ ,K ⁺ -ATPase by kinetic analysis. <i>Biochemistry</i> , 2004 , 43, 2241-50	3.2	22
65	Static and dynamic studies of the potential-sensitive membrane probe RH421 in dimyristoylphosphatidylcholine vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993 , 1153, 203-12	3.8	22
64	Physiological roles of transverse lipid asymmetry of animal membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183382	3.8	21
63	Mechanism of Mg ²⁺ binding in the Na ⁺ ,K ⁺ -ATPase. <i>Biophysical Journal</i> , 2009 , 96, 3753-61	2.9	21
62	Fluorescence and Light Scattering. <i>Journal of Chemical Education</i> , 2004 , 81, 705	2.4	21
61	Pump current and Na ⁺ /K ⁺ coupling ratio of Na ⁺ /K ⁺ -ATPase in reconstituted lipid vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989 , 981, 326-36	3.8	21
60	Mechanism of allosteric effects of ATP on the kinetics of P-type ATPases. <i>European Biophysics Journal</i> , 2009 , 39, 3-17	1.9	20
59	Dipole-Potential-Mediated Effects on Ion Pump Kinetics. <i>Biophysical Journal</i> , 2015 , 109, 1513-20	2.9	19
58	Redox-dependent regulation of the Na ⁺ -K ⁺ pump: new twists to an old target for treatment of heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , 2013 , 61, 94-101	5.8	19
57	Investigation of the enzymatic activity of the Na ⁺ ,K ⁺ -ATPase via isothermal titration microcalorimetry. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010 , 1797, 1540-5	4.6	19
56	Complexation of tropaeolin 000 No. 2 by β - and γ -cyclodextrin. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1984 , 80, 3119		19

55	Synthesis and supramolecular studies of chiral boronated platinum(II) complexes: insights into the molecular recognition of carboranes by β -cyclodextrin. <i>Chemistry - A European Journal</i> , 2012 , 18, 14413-254.8	18
54	Dietary cholesterol alters Na ⁺ /K ⁺ selectivity at intracellular Na ⁺ /K ⁺ pump sites in cardiac myocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2004 , 286, C398-405	18
53	Cholesterol depletion inhibits Na,K-ATPase activity in a near-native membrane environment. <i>Journal of Biological Chemistry</i> , 2019 , 294, 5956-5969	17
52	Pumping ions. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2011 , 38, 726-33	17
51	Time-resolved polarized fluorescence of the potential-sensitive dye RH421 in organic solvents and micelles. <i>Chemical Physics Letters</i> , 1994 , 231, 551-560	17
50	Electrostatic Stabilization Plays a Central Role in Autoinhibitory Regulation of the Na,K-ATPase. <i>Biophysical Journal</i> , 2017 , 112, 288-299	16
49	Interaction of the fluorescent probe RH421 with ribulose-1,5-bisphosphate carboxylase/oxygenase and with Na ⁺ ,K(+)-ATPase membrane fragments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1996 , 1280, 51-64	16
48	Identification of electric-field-dependent steps in the Na(+),K(+)-pump cycle. <i>Biophysical Journal</i> , 2014 , 107, 1352-63	15
47	Comparison on protein adsorption properties of diamond-like carbon and nitrogen-containing plasma polymer surfaces. <i>Thin Solid Films</i> , 2012 , 520, 3021-3025	15
46	Synthesis, carbohydrate- and DNA-binding studies of cationic 2,2',6',6'-terpyridineplatinum(II) complexes containing N- and S-donor boronic acid ligands. <i>Dalton Transactions</i> , 2011 , 40, 506-13	15
45	Interaction of ATP with the phosphoenzyme of the Na ⁺ ,K ⁺ -ATPase. <i>Biochemistry</i> , 2010 , 49, 1248-58	15
44	Dependence of Na ⁺ -K ⁺ pump current-voltage relationship on intracellular Na ⁺ , K ⁺ , and Cs ⁺ in rabbit cardiac myocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2002 , 283, C1511-21	15
43	Excess molar volumes, refractive indices and transport properties of aqueous solutions of poly(ethylene glycol)s at (303.15±0.15) K. <i>Journal of Molecular Liquids</i> , 2015 , 202, 176-188	14
42	The local electric field within phospholipid membranes modulates the charge transfer reactions in reaction centres. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009 , 1787, 1039-49	13
41	Binding and diffusion kinetics of the interaction of a hydrophobic potential-sensitive dye with lipid vesicles. <i>Biophysical Chemistry</i> , 1991 , 39, 91-106	13
40	Kinetics of K(+) occlusion by the phosphoenzyme of the Na(+),K(+)-ATPase. <i>Biophysical Journal</i> , 2011 , 100, 70-9	12
39	ATP binding equilibria of the Na(+),K(+)-ATPase. <i>Biochemistry</i> , 2008 , 47, 13103-14	12
38	Supramolecular β -cyclodextrin adducts of boron-rich DNA metallointercalators containing dicarba-closo-dodecaborane(12). <i>Inorganic Chemistry</i> , 2013 , 52, 10356-67	11

37	Extracellular allosteric Na(+) binding to the Na(+),K(+)-ATPase in cardiac myocytes. <i>Biophysical Journal</i> , 2013 , 105, 2695-705	2.9	11
36	The voltage-sensitive dye RH421 detects a Na,K-ATPase conformational change at the membrane surface. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017 , 1859, 813-823	3.8	10
35	General and specific interactions of the phospholipid bilayer with P-type ATPases. <i>Biophysical Reviews</i> , 2019 , 11, 353-364	3.7	10
34	Complexation of roccellin by β and γ -cyclodextrin. <i>Journal of the Chemical Society Faraday Transactions I</i> , 1986 , 82, 2333		10
33	Dual mechanisms of allosteric acceleration of the Na(+),K(+)-ATPase by ATP. <i>Biophysical Journal</i> , 2010 , 98, 2290-8	2.9	9
32	Interaction between DMPC liposomes and HM-PNIPAM polymer. <i>Biophysical Chemistry</i> , 2003 , 104, 449-58	3.5	9
31	Membrane accessibility of glutathione. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015 , 1848, 2430-6	3.8	8
30	Influence of allosteric effectors on the kinetics and equilibrium binding of phosphoenolpyruvate (PEP) to phosphoenolpyruvate carboxylase (PEPC) from <i>Zea mays</i> . <i>Biophysical Chemistry</i> , 2001 , 92, 53-64	3.5	8
29	A theoretical description of non-steady-state diffusion of hydrophobic ions across lipid vesicle membranes including effects of ion-ion interactions in the aqueous phase. <i>Biophysical Chemistry</i> , 1993 , 46, 131-43	3.5	8
28	Glutathionylation-Dependence of Na(+)-K(+)-Pump Currents Can Mimic Reduced Subsarcolemmal Na(+) Diffusion. <i>Biophysical Journal</i> , 2016 , 110, 1099-109	2.9	8
27	Polar Interactions Play an Important Role in the Energetics of the Main Phase Transition of Phosphatidylcholine Membranes. <i>ACS Omega</i> , 2019 , 4, 518-527	3.9	8
26	Photochemical behavior and Na ⁺ ,K ⁺ -ATPase sensitivity of voltage-sensitive styrylpyridinium fluorescent membrane probes. <i>Photochemistry and Photobiology</i> , 2006 , 82, 495-502	3.6	7
25	Electrogenic properties of the Na ⁺ ,K ⁺ -ATPase probed by presteady state and relaxation studies. <i>Journal of Bioenergetics and Biomembranes</i> , 2001 , 33, 401-5	3.7	7
24	A fluorescence stopped-flow kinetic study of the displacement of 2-[(2-bis[carboxymethyl]amino-5-methylphenoxy)methyl]-6-methoxy-8-bis[carboxymethyl]aminoquinoline (quin2) from its Ca ²⁺ , Pr ³⁺ , Tb ³⁺ , Dy ³⁺ , and Yb ³⁺ complexes by ethylenedinitrilotetraacetate (edta) in aqueous solution. <i>Inorganica Chimica Acta</i> , 1988 , 153, 21-24	2.7	7
23	Evolutionary Analysis of the Lysine-Rich N-terminal Cytoplasmic Domains of the Gastric H,K-ATPase and the Na,K-ATPase. <i>Journal of Membrane Biology</i> , 2018 , 251, 653-666	2.3	6
22	Evidence for ATP Interaction with Phosphatidylcholine Bilayers. <i>Langmuir</i> , 2019 , 35, 9944-9953	4	6
21	Kinetic comparisons of heart and kidney Na ⁺ ,K(+)-ATPases. <i>Biophysical Journal</i> , 2012 , 103, 677-88	2.9	6
20	Electric Field Sensitive Dyes. <i>Springer Series on Fluorescence</i> , 2010 , 331-344	0.5	6

19	Stimulation of Na(+),K(+)-ATPase Activity as a Possible Driving Force in Cholesterol Evolution. <i>Journal of Membrane Biology</i> , 2016 , 249, 251-9	2.3	5
18	Kinetic investigations of the mechanism of the rate-determining step of the Na ⁺ ,K ⁺ -ATPase pump cycle. <i>Annals of the New York Academy of Sciences</i> , 2003 , 986, 159-62	6.5	5
17	An adsorption isotherm for the interaction of membrane-permeable hydrophobic ions with lipid vesicles. <i>Biophysical Chemistry</i> , 1992 , 42, 63-72	3.5	5
16	Antibacterial Activity and Iron Release of Organic-Inorganic Hybrid Biomaterials Synthesized via the Sol-Gel Route. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 9311	2.6	4
15	Effect of Cholesterol on the Dipole Potential of Lipid Membranes. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1115, 135-154	3.6	4
14	Penetration of phospholipid membranes by poly-l-lysine depends on cholesterol and phospholipid composition. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183128	3.8	3
13	The High and Low Affinity Binding Sites of Digitalis Glycosides to Na,K-ATPase. <i>Arabian Journal for Science and Engineering</i> , 2014 , 39, 75-85		2
12	Polarity of the ATP binding site of the Na,K-ATPase, gastric H,K-ATPase and sarcoplasmic reticulum Ca-ATPase. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183138	3.8	2
11	Fluorescence Enhancement through Confined Oligomerization in Nanochannels: An Anthryl Oligomer in a Metal-Organic Framework 2021 , 3, 1599-1604		1
10	Selective ion transport across a lipid bilayer in a protic ionic liquid. <i>Soft Matter</i> , 2021 , 17, 2688-2694	3.6	1
9	Stopped-Flow Fluorimetry Using Voltage-Sensitive Fluorescent Membrane Probes 179-209		1
8	Kinetic contribution to extracellular Na/K selectivity in the Na/K pump. <i>FEBS Open Bio</i> , 2018 , 8, 854-859	2.7	0
7	Rapid Reaction Kinetics: Lessons Learnt from Ion Pumps. <i>Australian Journal of Chemistry</i> , 2011 , 64, 5	1.2	0
6	Examination of the Photophysical Processes of Chlorophyll d Leading to a Clarification of Proposed Uphill Energy Transfer Processes in Cells of <i>Acaryochloris marina</i> . <i>Photochemistry and Photobiology</i> , 2007 , 77, 628-637	3.6	0
5	A Perspective on Biophysical Chemistry. <i>Australian Journal of Chemistry</i> , 2011 , 64, 3	1.2	
4	Inside Cover: Mechanism of Cytotoxicity and Cellular Uptake of Lipophilic Inert Dinuclear Polypyridylruthenium(II) Complexes (ChemMedChem 5/2011). <i>ChemMedChem</i> , 2011 , 6, 742-742	3.7	
3	BIOPHYSICHEM2011: A Joint Meeting of the Australian Society for Biophysics and the RACI Physical Chemistry Division. <i>Australian Journal of Chemistry</i> , 2012 , 65, 439	1.2	
2	Electrogenic plasma membrane H ⁺ -ATPase activity using voltage sensitive dyes. <i>Journal of Bioenergetics and Biomembranes</i> , 2010 , 42, 387-93	3.7	

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