

Mark I Wallace

List of Publications by Year in descending order

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62
papers

3,331
citations

136740

32
h-index

155451

55
g-index

71
all docs

71
docs citations

71
times ranked

3862
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast slow folding of an outer membrane porin. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2121487119.	3.3	2
2	Spatiotemporal stop-and-go dynamics of the mitochondrial TOM core complex correlates with channel activity. Communications Biology, 2022, 5, 471.	2.0	4
3	Constructing ion channels from water-soluble α -helical barrels. Nature Chemistry, 2021, 13, 643-650.	6.6	59
4	Single-molecule imaging of pore-forming toxin dynamics in droplet interface bilayers. Methods in Enzymology, 2021, 649, 431-459.	0.4	3
5	Combined Single-Molecule FRET and Single-Channel Recording to Link Ion Channel Conformation and Function. Biophysical Journal, 2020, 118, 466a-467a.	0.2	0
6	Modifying Membrane Morphology and Interactions with DNA Origami Clathrin-Mimic Networks. ACS Nano, 2019, 13, 9973-9979.	7.3	42
7	Artificial Signal Transduction across Membranes. ChemBioChem, 2019, 20, 2569-2580.	1.3	16
8	Controlling Anomalous Diffusion in Lipid Membranes. Biophysical Journal, 2019, 116, 1085-1094.	0.2	20
9	Dynamic tuneable G protein-coupled receptor monomer-dimer populations. Nature Communications, 2018, 9, 1710.	5.8	92
10	iSCAT Microscopy of Phase Separated Lipid Membranes. Biophysical Journal, 2018, 114, 449a.	0.2	0
11	Urea-mediated anomalous diffusion in supported lipid bilayers. Interface Focus, 2018, 8, 20180028.	1.5	2
12	On demand modulation of lipid composition in an individual bilayer. Soft Matter, 2017, 13, 1788-1793.	1.2	9
13	Measuring the potential energy barrier to lipid bilayer electroporation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2017, 372, 20160227.	1.8	23
14	Lipid Diffusion in Membrane Junctions Measured by Single-Molecule Tracking. Biophysical Journal, 2017, 112, 75a.	0.2	0
15	Assembling the Tat protein translocase. ELife, 2016, 5, .	2.8	62
16	Imaging the dynamics of individual electropores. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5281-5286.	3.3	92
17	Membrane Crowding and Anomalous Diffusion in Artificial Lipid Bilayers. Biophysical Journal, 2016, 110, 568a.	0.2	1
18	Single-Molecule Fluorescence Imaging to Determine the Stoichiometry of the Twin-Arginine Translocase. Biophysical Journal, 2016, 110, 570a.	0.2	0

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19	Chemical amplification of magnetic field effects relevant to avian magnetoreception. <i>Nature Chemistry</i> , 2016, 8, 384-391.	6.6	79
20	Length-Dependent Formation of Transmembrane Pores by 3×10^3 -Helical α -Aminoisobutyric Acid Foldamers. <i>Journal of the American Chemical Society</i> , 2016, 138, 688-695.	6.6	71
21	Imaging potassium-flux through individual electropores in droplet interface bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 613-617.	1.4	21
22	The TatC component of the twin-arginine protein translocase functions as an obligate oligomer. <i>Molecular Microbiology</i> , 2015, 98, 111-129.	1.2	27
23	Combining Single-Molecule Imaging and Single-Channel Electrophysiology. <i>Journal of Molecular Biology</i> , 2015, 427, 146-157.	2.0	24
24	Real-Time Imaging of Nanoscopic Lipid Domains using iSCAT. <i>Biophysical Journal</i> , 2015, 108, 17a-18a.	0.2	0
25	Imaging the Assembly of Perfringolysin O. <i>Biophysical Journal</i> , 2015, 108, 81a.	0.2	0
26	Dynamic label-free imaging of lipid nanodomains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12299-12303.	3.3	100
27	High-throughput optical sensing of nucleic acids in a nanopore array. <i>Nature Nanotechnology</i> , 2015, 10, 986-991.	15.6	132
28	Membrane pore formation at protein-lipid interfaces. <i>Trends in Biochemical Sciences</i> , 2014, 39, 510-516.	3.7	140
29	High-Speed Single-Particle Tracking of GM1 in Model Membranes Reveals Anomalous Diffusion due to Interleaflet Coupling and Molecular Pinning. <i>Nano Letters</i> , 2014, 14, 5390-5397.	4.5	104
30	Photobleaching Reveals Heterogeneous Stoichiometry for Equinatoxin II Oligomers. <i>ChemBioChem</i> , 2014, 15, 2139-2145.	1.3	35
31	Mass Spectrometry Defines the C-Terminal Dimerization Domain and Enables Modeling of the Structure of Full-Length OmpA. <i>Structure</i> , 2014, 22, 781-790.	1.6	58
32	Fluorescence Imaging of MACPF/CDC Proteins: New Techniques and Their Application. <i>Sub-Cellular Biochemistry</i> , 2014, 80, 293-319.	1.0	1
33	A radical sense of direction: signalling and mechanism in cryptochrome magnetoreception. <i>Trends in Biochemical Sciences</i> , 2013, 38, 435-446.	3.7	108
34	Constructing droplet interface bilayers from the contact of aqueous droplets in oil. <i>Nature Protocols</i> , 2013, 8, 1048-1057.	5.5	115
35	Live cell imaging shows reversible assembly of the TatA component of the twin-arginine protein transport system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E3650-9.	3.3	69
36	One-step synthesis of fluorescein modified nano-carbon for Pd(ii) detection via fluorescence quenching. <i>Analyst</i> , The, 2012, 137, 2054.	1.7	61

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37	Rapid Assembly of a Multimeric Membrane Protein Pore Observed by Single Molecule Fluorescence. <i>Biophysical Journal</i> , 2012, 102, 262a.	0.2	0
38	Quantification of Membrane Protein Inhibition by Optical Ion Flux in a Droplet Interface Bilayer Array. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3134-3138.	7.2	44
39	Dynamic and Reversible Control of 2D Membrane Protein Concentration in a Droplet Interface Bilayer. <i>Nano Letters</i> , 2011, 11, 3324-3328.	4.5	30
40	In Vitro Reconstitution of Eukaryotic Ion Channels Using Droplet Interface Bilayers. <i>Journal of the American Chemical Society</i> , 2011, 133, 9370-9375.	6.6	58
41	Rapid Assembly of a Multimeric Membrane Protein Pore. <i>Biophysical Journal</i> , 2011, 101, 2679-2683.	0.2	75
42	Determining Membrane Capacitance by Dynamic Control of Droplet Interface Bilayer Area. <i>Langmuir</i> , 2011, 27, 14335-14342.	1.6	105
43	Imaging Multiple Conductance States in an Alamethicin Pore. <i>Journal of the American Chemical Society</i> , 2011, 133, 14507-14509.	6.6	31
44	Visualizing helicases unwinding DNA at the single molecule level. <i>Nucleic Acids Research</i> , 2010, 38, 4448-4457.	6.5	58
45	Single Molecule Fluorescence in Membrane Biology. , 2009, , 253-288.		0
46	Simultaneous Measurement of Ionic Current and Fluorescence from Single Protein Pores. <i>Journal of the American Chemical Society</i> , 2009, 131, 1652-1653.	6.6	118
47	Lucky Imaging: Improved Localization Accuracy for Single Molecule Imaging. <i>Biophysical Journal</i> , 2009, 96, 2912-2917.	0.2	12
48	Protein modification for single molecule fluorescence microscopy. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 3031.	1.5	16
49	Droplet interface bilayers. <i>Molecular BioSystems</i> , 2008, 4, 1191.	2.9	411
50	Enhanced Stability and Fluidity in Droplet on Hydrogel Bilayers for Measuring Membrane Protein Diffusion. <i>Nano Letters</i> , 2007, 7, 3875-3878.	4.5	74
51	Direct Detection of Membrane Channels from Gels Using Water-in-Oil Droplet Bilayers. <i>Journal of the American Chemical Society</i> , 2007, 129, 16042-16047.	6.6	89
52	Membrane Protein Stoichiometry Determined from the Step-Wise Photobleaching of Dye-Labelled Subunits. <i>ChemBioChem</i> , 2007, 8, 994-999.	1.3	111
53	Prepore for a breakthrough. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 385-386.	3.6	27
54	A model of stereocilia adaptation based on single molecule mechanical studies of myosin I. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 1895-1905.	1.8	32

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55	Photon Counting Histogram for One-Photon Excitation. ChemPhysChem, 2003, 4, 1121-1123.	1.0	51
56	Photon Counting Histogram for One-Photon Excitation. ChemPhysChem, 2003, 4, 1280-1280.	1.0	2
57	Coupled Electrorotation of Polymer Microspheres for Microfluidic Sensing and Mixing. Analytical Chemistry, 2002, 74, 5099-5104.	3.2	17
58	Diamond deposition in a DC-arc Jet CVD system: investigations of the effects of nitrogen addition. Diamond and Related Materials, 2001, 10, 370-375.	1.8	24
59	Two-state model of conformational fluctuation in a DNA hairpin-loop. Chemical Physics Letters, 2001, 334, 145-150.	1.2	40
60	Non-Arrhenius kinetics for the loop closure of a DNA hairpin. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 5584-5589.	3.3	179
61	FRET Fluctuation Spectroscopy: Exploring the Conformational Dynamics of a DNA Hairpin Loop. Journal of Physical Chemistry B, 2000, 104, 11551-11555.	1.2	93
62	Ratiometric Analysis of Single-Molecule Fluorescence Resonance Energy Transfer Using Logical Combinations of Threshold Criteria: A Study of 12-mer DNA. Journal of Physical Chemistry B, 2000, 104, 5171-5178.	1.2	56