John J Kasianowicz

List of Publications by Year
in descending order

34	4,259	236612 25	414034 32
papers	citations	h-index	g-index

34	34	34	2414
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A comparison of ion channel current blockades caused by individual poly(ethylene glycol) molecules and polyoxometalate nanoclusters. European Physical Journal E, 2019, 42, 83.	0.7	3
2	Determining the Physical Properties of Molecules with Nanometer-Scale Pores. ACS Sensors, 2018, 3, 251-263.	4.0	28
3	Biochip for the Detection of Bacillus anthracis Lethal Factor and Therapeutic Agents against Anthrax Toxins. Membranes, 2016, 6, 36.	1.4	9
4	Single Molecule Discrimination of Heteropolytungstates and Their Isomers in Solution with a Nanometer-Scale Pore. Journal of the American Chemical Society, 2016, 138, 7228-7231.	6.6	30
5	Real-time single-molecule electronic DNA sequencing by synthesis using polymer-tagged nucleotides on a nanopore array. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5233-5238.	3.3	114
6	MOSAIC: A Modular Single-Molecule Analysis Interface for Decoding Multistate Nanopore Data. Analytical Chemistry, 2016, 88, 11900-11907.	3.2	85
7	Analytical applications for pore-forming proteins. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 593-606.	1.4	56
8	Quantifying Short-Lived Events in Multistate Ionic Current Measurements. ACS Nano, 2014, 8, 1547-1553.	7.3	78
9	Anthrax toxin-induced rupture of artificial lipid bilayer membranes. Journal of Chemical Physics, 2013, 139, 065101.	1.2	18
10	Analytical Approaches for Studying Transporters, Channels and Porins. Chemical Reviews, 2012, 112, 6227-6249.	23.0	42
11	Disease Detection and Management via Single Nanopore-Based Sensors. Chemical Reviews, 2012, 112, 6431-6451.	23.0	222
12	PEG-Labeled Nucleotides and Nanopore Detection for Single Molecule DNASequencing by Synthesis. Scientific Reports, 2012, 2, 684.	1.6	109
13	Detecting and Characterizing Individual Molecules with Single Nanopores. Methods in Molecular Biology, 2012, 870, 3-20.	0.4	5
14	The effects of diffusion on an exonuclease/nanopore-based DNA sequencing engine. Journal of Chemical Physics, 2012, 137, 214903.	1.2	30
15	Theory for polymer analysis using nanopore-based single-molecule mass spectrometry. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12080-12085.	3.3	195
16	Probing single nanometer-scale pores with polymeric molecular rulers. Journal of Chemical Physics, 2010, 132, 135101.	1.2	47
17	Changes in ion channel geometry resolved to sub-Ã¥ngstrÃ¶m precision via single molecule mass spectrometry. Journal of Physics Condensed Matter, 2010, 22, 454108.	0.7	27
18	Sizing the Bacillus anthracis PA63 Channel with Nonelectrolyte Poly(Ethylene Glycols). Biophysical Journal, 2008, 95, 1157-1164.	0.2	41

#	Article	IF	Citations
19	Nanoscopic Porous Sensors. Annual Review of Analytical Chemistry, 2008, 1, 737-766.	2.8	261
20	Single-molecule mass spectrometry in solution using a solitary nanopore. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8207-8211.	3.3	325
21	Anthrax Biosensor, Protective Antigen Ion Channel Asymmetric Blockade. Journal of Biological Chemistry, 2005, 280, 34056-34062.	1.6	75
22	Phase Transitions of a Polymer Threading a Membrane: Character of the Transition When the Molecule Can Undergo a Helix-Random Coil or an Equilibrium Polymerization Transition. AIP Conference Proceedings, 2003, , .	0.3	0
23	Nanometer-Scale Pores: Potential Applications for Analyte Detection and DNA Characterization. Disease Markers, 2002, 18, 185-191.	0.6	19
24	Simultaneous Multianalyte Detection with a Nanometer-Scale Pore. Analytical Chemistry, 2001, 73, 2268-2272.	3.2	184
25	Diffusion Bias and Photophysical Dynamics of Single Molecules in Unsupported Lipid Bilayer Membranes Probed with Confocal Microscopy. Journal of Physical Chemistry B, 2000, 104, 6103-6107.	1.2	13
26	Driven DNA Transport into an Asymmetric Nanometer-Scale Pore. Physical Review Letters, 2000, 85, 3057-3060.	2.9	467
27	Microsecond Time-Scale Discrimination Among Polycytidylic Acid, Polyadenylic Acid, and Polyuridylic Acid as Homopolymers or as Segments Within Single RNA Molecules. Biophysical Journal, 1999, 77, 3227-3233.	0.2	897
28	Genetically Engineered Metal Ion Binding Sites on the Outside of a Channel's Transmembrane Î²-Barrel. Biophysical Journal, 1999, 76, 837-845.	0.2	89
29	Designed protein pores as components for biosensors. Chemistry and Biology, 1997, 4, 497-505.	6.2	280
30	The charge state of an ion channel controls neutral polymer entry into its pore. European Biophysics Journal, 1997, 26, 471-476.	1.2	86
31	Dynamics and Free Energy of Polymers Partitioning into a Nanoscale Pore. Macromolecules, 1996, 29, 8517-8522.	2.2	234
32	Current noise reveals protonation kinetics and number of ionizable sites in an open protein ion channel. Physical Review Letters, 1993, 70, 2352-2355.	2.9	177
33	Genetically Engineered Pores as Metal Ion Biosensors. Materials Research Society Symposia Proceedings, 1993, 330, 217.	0.1	13
34	Noise analysis of ionization kinetics in a protein ion channel. AIP Conference Proceedings, 1993, , .	0.3	0