

John J Kasianowicz

List of Publications by Year in descending order

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34
papers

4,259
citations

236612

25
h-index

414034

32
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34
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34
docs citations

34
times ranked

2414
citing authors

#	ARTICLE	IF	CITATIONS
1	Microsecond Time-Scale Discrimination Among Polycytidylic Acid, Polyadenylic Acid, and Polyuridylic Acid as Homopolymers or as Segments Within Single RNA Molecules. <i>Biophysical Journal</i> , 1999, 77, 3227-3233.	0.2	897
2	Driven DNA Transport into an Asymmetric Nanometer-Scale Pore. <i>Physical Review Letters</i> , 2000, 85, 3057-3060.	2.9	467
3	Single-molecule mass spectrometry in solution using a solitary nanopore. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8207-8211.	3.3	325
4	Designed protein pores as components for biosensors. <i>Chemistry and Biology</i> , 1997, 4, 497-505.	6.2	280
5	Nanoscope Porous Sensors. <i>Annual Review of Analytical Chemistry</i> , 2008, 1, 737-766.	2.8	261
6	Dynamics and Free Energy of Polymers Partitioning into a Nanoscale Pore. <i>Macromolecules</i> , 1996, 29, 8517-8522.	2.2	234
7	Disease Detection and Management via Single Nanopore-Based Sensors. <i>Chemical Reviews</i> , 2012, 112, 6431-6451.	23.0	222
8	Theory for polymer analysis using nanopore-based single-molecule mass spectrometry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 12080-12085.	3.3	195
9	Simultaneous Multianalyte Detection with a Nanometer-Scale Pore. <i>Analytical Chemistry</i> , 2001, 73, 2268-2272.	3.2	184
10	Current noise reveals protonation kinetics and number of ionizable sites in an open protein ion channel. <i>Physical Review Letters</i> , 1993, 70, 2352-2355.	2.9	177
11	Real-time single-molecule electronic DNA sequencing by synthesis using polymer-tagged nucleotides on a nanopore array. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5233-5238.	3.3	114
12	PEG-Labeled Nucleotides and Nanopore Detection for Single Molecule DNA Sequencing by Synthesis. <i>Scientific Reports</i> , 2012, 2, 684.	1.6	109
13	Genetically Engineered Metal Ion Binding Sites on the Outside of a Channel's Transmembrane β -Barrel. <i>Biophysical Journal</i> , 1999, 76, 837-845.	0.2	89
14	The charge state of an ion channel controls neutral polymer entry into its pore. <i>European Biophysics Journal</i> , 1997, 26, 471-476.	1.2	86
15	MOSAIC: A Modular Single-Molecule Analysis Interface for Decoding Multistate Nanopore Data. <i>Analytical Chemistry</i> , 2016, 88, 11900-11907.	3.2	85
16	Quantifying Short-Lived Events in Multistate Ionic Current Measurements. <i>ACS Nano</i> , 2014, 8, 1547-1553.	7.3	78
17	Anthrax Biosensor, Protective Antigen Ion Channel Asymmetric Blockade. <i>Journal of Biological Chemistry</i> , 2005, 280, 34056-34062.	1.6	75
18	Analytical applications for pore-forming proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 593-606.	1.4	56

#	ARTICLE	IF	CITATIONS
19	Probing single nanometer-scale pores with polymeric molecular rulers. <i>Journal of Chemical Physics</i> , 2010, 132, 135101.	1.2	47
20	Analytical Approaches for Studying Transporters, Channels and Porins. <i>Chemical Reviews</i> , 2012, 112, 6227-6249.	23.0	42
21	Sizing the <i>Bacillus anthracis</i> PA63 Channel with Nonelectrolyte Poly(Ethylene Glycols). <i>Biophysical Journal</i> , 2008, 95, 1157-1164.	0.2	41
22	The effects of diffusion on an exonuclease/nanopore-based DNA sequencing engine. <i>Journal of Chemical Physics</i> , 2012, 137, 214903.	1.2	30
23	Single Molecule Discrimination of Heteropolytungstates and Their Isomers in Solution with a Nanometer-Scale Pore. <i>Journal of the American Chemical Society</i> , 2016, 138, 7228-7231.	6.6	30
24	Determining the Physical Properties of Molecules with Nanometer-Scale Pores. <i>ACS Sensors</i> , 2018, 3, 251-263.	4.0	28
25	Changes in ion channel geometry resolved to sub-Ångström precision via single molecule mass spectrometry. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 454108.	0.7	27
26	Nanometer-Scale Pores: Potential Applications for Analyte Detection and DNA Characterization. <i>Disease Markers</i> , 2002, 18, 185-191.	0.6	19
27	Anthrax toxin-induced rupture of artificial lipid bilayer membranes. <i>Journal of Chemical Physics</i> , 2013, 139, 065101.	1.2	18
28	Genetically Engineered Pores as Metal Ion Biosensors. <i>Materials Research Society Symposia Proceedings</i> , 1993, 330, 217.	0.1	13
29	Diffusion Bias and Photophysical Dynamics of Single Molecules in Unsupported Lipid Bilayer Membranes Probed with Confocal Microscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 6103-6107.	1.2	13
30	Biochip for the Detection of <i>Bacillus anthracis</i> Lethal Factor and Therapeutic Agents against Anthrax Toxins. <i>Membranes</i> , 2016, 6, 36.	1.4	9
31	Detecting and Characterizing Individual Molecules with Single Nanopores. <i>Methods in Molecular Biology</i> , 2012, 870, 3-20.	0.4	5
32	A comparison of ion channel current blockades caused by individual poly(ethylene glycol) molecules and polyoxometalate nanoclusters. <i>European Physical Journal E</i> , 2019, 42, 83.	0.7	3
33	Noise analysis of ionization kinetics in a protein ion channel. <i>AIP Conference Proceedings</i> , 1993, , .	0.3	0
34	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. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	0