

Joseph E Reiner

List of Publications by Year in descending order

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53
papers

1,859
citations

331670

21
h-index

289244

40
g-index

54
all docs

54
docs citations

54
times ranked

2061
citing authors

#	ARTICLE	IF	CITATIONS
1	On the use of laser heating to detail the physical mechanisms of nanopore sensing. <i>Biophysical Journal</i> , 2022, 121, 541a-542a.	0.5	0
2	Highlights on the current state of proteomic detection and characterization with nanopore sensors. <i>Proteomics</i> , 2022, 22, 2100061.	2.2	1
3	Nanopore Analysis as a Tool for Studying Rapid Holliday Junction Dynamics and Analyte Binding. <i>Analytical Chemistry</i> , 2022, 94, 10027-10034.	6.5	6
4	Biological nanopores elucidate the differences between isomers of mercaptobenzoic-capped gold clusters. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7938-7947.	2.8	3
5	Laser-based temperature control to study the roles of entropy and enthalpy in polymer-nanopore interactions. <i>Science Advances</i> , 2021, 7, .	10.3	20
6	Nanopore sensing: A physical-chemical approach. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183644.	2.6	27
7	Resistive-Pulse Nanopore Sensing of Ligand Exchange at the Single Nanocluster Limit for Peptide Detection. <i>ACS Applied Nano Materials</i> , 2020, 3, 7973-7981.	5.0	7
8	Single-molecule analysis of i-motif within self-assembled DNA duplexes and nanocircles. <i>Nucleic Acids Research</i> , 2019, 47, 7199-7212.	14.5	28
9	Ligand-Induced Structural Changes of Thiolate-Capped Gold Nanoclusters Observed with Resistive-Pulse Nanopore Sensing. <i>Journal of the American Chemical Society</i> , 2019, 141, 3792-3796.	13.7	16
10	Optical tweezers as an effective tool for spermatozoa isolation from mixed forensic samples. <i>PLoS ONE</i> , 2019, 14, e0211810.	2.5	24
11	Determining the Physical Properties of Molecules with Nanometer-Scale Pores. <i>ACS Sensors</i> , 2018, 3, 251-263.	7.8	28
12	The Utility of Nanopore Technology for Protein and Peptide Sensing. <i>Proteomics</i> , 2018, 18, e1800026.	2.2	58
13	Redox Potential Measurements in Red Blood Cell Packets Using Nanoporous Gold Electrodes. <i>ACS Sensors</i> , 2018, 3, 1601-1608.	7.8	14
14	Single Molecule Nanopore Spectrometry for Peptide Detection. <i>ACS Sensors</i> , 2017, 2, 1319-1328.	7.8	81
15	Microdroplet-Based Potentiometric Redox Measurements on Gold Nanoporous Electrodes. <i>Analytical Chemistry</i> , 2016, 88, 3768-3774.	6.5	12
16	Infrared Laser Heating Applied to Nanopore Sensing for DNA Duplex Analysis. <i>Analytical Chemistry</i> , 2016, 88, 2645-2651.	6.5	13
17	Improving the prospects of cleavage-based nanopore sequencing engines. <i>Journal of Chemical Physics</i> , 2015, 143, 074904.	3.0	12
18	Voltage and blockade state optimization of cluster-enhanced nanopore spectrometry. <i>Analyst, The</i> , 2015, 140, 7718-7725.	3.5	11

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19	Functional characterization of a melittin analog containing a non-natural tryptophan analog. <i>Biopolymers</i> , 2015, 104, 384-394.	2.4	24
20	Enhanced Single Molecule Mass Spectrometry via Charged Metallic Clusters. <i>Analytical Chemistry</i> , 2014, 86, 11077-11085.	6.5	29
21	Theory of Polymer-Nanopore Interactions Refined Using Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2013, 135, 7064-7072.	13.7	65
22	Temperature Sculpting in Yoctoliter Volumes. <i>Journal of the American Chemical Society</i> , 2013, 135, 3087-3094.	13.7	51
23	Anthrax toxin-induced rupture of artificial lipid bilayer membranes. <i>Journal of Chemical Physics</i> , 2013, 139, 065101.	3.0	18
24	Characterizing individual Au ₂₅ (SG) ₁₈ clusters within a nanopore detector. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1484, 16.	0.1	0
25	Disease Detection and Management via Single Nanopore-Based Sensors. <i>Chemical Reviews</i> , 2012, 112, 6431-6451.	47.7	222
26	Kinetic Dynamics in an H ⁺ -Based Nanopore DNA Sequencer. <i>Biophysical Journal</i> , 2012, 102, 727a.	0.5	0
27	PEG-Labeled Nucleotides and Nanopore Detection for Single Molecule DNA Sequencing by Synthesis. <i>Scientific Reports</i> , 2012, 2, 684.	3.3	109
28	Detecting and Characterizing Individual Molecules with Single Nanopores. <i>Methods in Molecular Biology</i> , 2012, 870, 3-20.	0.9	5
29	Simulating Nanopore Sensor Dynamics Over Long Times Scales. <i>Biophysical Journal</i> , 2012, 102, 728a.	0.5	0
30	The effects of diffusion on an exonuclease/nanopore-based DNA sequencing engine. <i>Journal of Chemical Physics</i> , 2012, 137, 214903.	3.0	30
31	Integrating biological molecules with electrode surfaces for bioanalytical sensing applications. , 2011, , .		0
32	Detection of Heteroplasmic Mitochondrial DNA in Single Mitochondria. <i>PLoS ONE</i> , 2010, 5, e14359.	2.5	25
33	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.	7.1	195
34	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.	1.8	27
35	Accurate Optical Analysis of Single-Molecule Entrapment in Nanoscale Vesicles. <i>Analytical Chemistry</i> , 2010, 82, 180-188.	6.5	13
36	Creation and Mixing of Monodisperse Sub-femtoliter Bioreactors. <i>Biophysical Journal</i> , 2009, 96, 27a-28a.	0.5	0

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37	Generation and Mixing of Subfemtoliter Aqueous Droplets On Demand. <i>Analytical Chemistry</i> , 2009, 81, 8041-8047.	6.5	19
38	Preparation of nanoparticles by continuous-flow microfluidics. <i>Journal of Nanoparticle Research</i> , 2008, 10, 925-934.	1.9	217
39	Nanosopic Porous Sensors. <i>Annual Review of Analytical Chemistry</i> , 2008, 1, 737-766.	5.4	261
40	Green Fluorescent Protein in Inertially Injected Aqueous Nanodroplets. <i>Langmuir</i> , 2008, 24, 4975-4978.	3.5	24
41	Electronic Detection of Biomolecules. , 2008, , .		0
42	Liposome characterization with fluorescence cumulant analysis. , 2007, , .		1
43	Hydrosomes: optically trapped water droplets as nano-containers. , 2007, , .		1
44	Stable and robust nanotubes formed from self-assembled polymer membranes. , 2006, , .		1
45	Stable and robust polymer nanotubes stretched from polymersomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1173-1177.	7.1	45
46	Development of an Optical Tweezers Methodology to Separate Single Cells and Single Mitochondria to Determine the Location of Heteroplasmy in Mitochondrial DNA. <i>FASEB Journal</i> , 2006, 20, A921.	0.5	0
47	Broadening mechanisms and their effects in non-classical correlations on cavity QED with atomic beams. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2004, 6, 135-142.	1.4	2
48	Intensity-field correlations of non-classical light. <i>Progress in Optics</i> , 2004, 46, 355-404.	0.6	8
49	Optical manipulation of nanocontainers for biotechnology. , 2004, , .		0
50	Optical manipulation of lipid and polymer nanotubes with optical tweezers. , 2004, 5514, 246.		2
51	Capture and Release of a Conditional State of a Cavity QED System by Quantum Feedback. <i>Physical Review Letters</i> , 2002, 89, 133601.	7.8	100
52	Third-order correlations in cavity quantum electrodynamics. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2002, 4, S281-S284.	1.4	3
53	Quantum Dots: Capture and Release of a Quantum State by Quantum Feedback. <i>Optics and Photonics News</i> , 2002, 13, 53.	0.5	1