

Laurent Bacri

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,796
citations

304368

22
h-index

288905

40
g-index

40
all docs

40
docs citations

40
times ranked

1361
citing authors

#	ARTICLE	IF	CITATIONS
1	Unfolding of Proteins and Long Transient Conformations Detected by Single Nanopore Recording. <i>Physical Review Letters</i> , 2007, 98, 158101.	2.9	258
2	Dynamics of Completely Unfolded and Native Proteins through Solid-State Nanopores as a Function of Electric Driving Force. <i>ACS Nano</i> , 2011, 5, 3628-3638.	7.3	175
3	Sensing Proteins through Nanopores: Fundamental to Applications. <i>ACS Chemical Biology</i> , 2012, 7, 1935-1949.	1.6	164
4	Protein Transport through a Narrow Solid-State Nanopore at High Voltage: Experiments and Theory. <i>ACS Nano</i> , 2012, 6, 6236-6243.	7.3	126
5	High-Resolution Size-Discrimination of Single Nonionic Synthetic Polymers with a Highly Charged Biological Nanopore. <i>ACS Nano</i> , 2015, 9, 6443-6449.	7.3	106
6	Dynamics of Colloids in Single Solid-State Nanopores. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2890-2898.	1.2	86
7	Single Molecule Detection of Glycosaminoglycan Hyaluronic Acid Oligosaccharides and Depolymerization Enzyme Activity Using a Protein Nanopore. <i>ACS Nano</i> , 2012, 6, 9672-9678.	7.3	74
8	Kinetics of Enzymatic Degradation of High Molecular Weight Polysaccharides through a Nanopore: Experiments and Data-Modeling. <i>Analytical Chemistry</i> , 2013, 85, 8488-8492.	3.2	67
9	Dynamics of Polyelectrolyte Transport through a Protein Channel as a Function of Applied Voltage. <i>Physical Review Letters</i> , 2008, 100, 158302.	2.9	62
10	Exploration of Neutral Versus Polyelectrolyte Behavior of Poly(ethylene glycol)s in Alkali Ion Solutions using Single-Nanopore Recording. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2202-2208.	2.1	49
11	Effect of screening on the transport of polyelectrolytes through nanopores. <i>Europhysics Letters</i> , 2008, 82, 48003.	0.7	47
12	Aerolysin, a Powerful Protein Sensor for Fundamental Studies and Development of Upcoming Applications. <i>ACS Sensors</i> , 2019, 4, 530-548.	4.0	47
13	Electroosmosis through β -Hemolysin That Depends on Alkali Cation Type. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 4362-4367.	2.1	42
14	Functionalized Solid-State Nanopore Integrated in a Reusable Microfluidic Device for a Better Stability and Nanoparticle Detection. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41634-41640.	4.0	42
15	The Promise of Nanopore Technology: Advances in the Discrimination of Protein Sequences and Chemical Modifications. <i>Small Methods</i> , 2020, 4, 2000090.	4.6	40
16	Droplet suction on porous media. <i>European Physical Journal E</i> , 2000, 3, 87-97.	0.7	37
17	Single-sulfur atom discrimination of polysulfides with a protein nanopore for improved batteries. <i>Communications Materials</i> , 2020, 1, .	2.9	36
18	Ionic Channel Behavior of Modified Cyclodextrins Inserted in Lipid Membranes. <i>Langmuir</i> , 2005, 21, 5842-5846.	1.6	35

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19	Transport of Long Neutral Polymers in the Semidilute Regime through a Protein Nanopore. <i>Physical Review Letters</i> , 2012, 108, 088104.	2.9	35
20	Direct FIB fabrication and integration of "single nanopore devices" for the manipulation of macromolecules. <i>Microelectronic Engineering</i> , 2010, 87, 1300-1303.	1.1	33
21	Biomimetic Nanotubes Based on Cyclodextrins for Ion-Channel Applications. <i>Nano Letters</i> , 2015, 15, 7748-7754.	4.5	30
22	Discrimination of neutral oligosaccharides through a nanopore. <i>Biochemical and Biophysical Research Communications</i> , 2011, 412, 561-564.	1.0	29
23	Focus on Protein Unfolding Through Nanopores. <i>BioNanoScience</i> , 2014, 4, 111-118.	1.5	23
24	Experimental Study of the Spreading of a Viscous Droplet on a Nonviscous Liquid. <i>Langmuir</i> , 1996, 12, 6708-6711.	1.6	22
25	Solid-State Nanopore Easy Chip Integration in a Cheap and Reusable Microfluidic Device for Ion Transport and Polymer Conformation Sensing. <i>ACS Sensors</i> , 2018, 3, 2129-2137.	4.0	21
26	Selective target protein detection using a decorated nanopore into a microfluidic device. <i>Biosensors and Bioelectronics</i> , 2021, 183, 113195.	5.3	17
27	Tuning Macromolecular Structures of Synthetic Vectors for Gene Therapy. <i>Macromolecular Symposia</i> , 2008, 261, 167-181.	0.4	12
28	Comparative biosensing of glycosaminoglycan hyaluronic acid oligo- and polysaccharides using aerolysin and α -hemolysin nanopores. <i>European Physical Journal E</i> , 2018, 41, 127.	0.7	12
29	Versatile cyclodextrin nanotube synthesis with functional anchors for efficient ion channel formation: design, characterization and ion conductance. <i>Nanoscale</i> , 2018, 10, 15303-15316.	2.8	11
30	Protein Unfolding Through Nanopores. <i>Protein and Peptide Letters</i> , 2014, 21, 266-274.	0.4	11
31	Focus on using nanopore technology for societal health, environmental, and energy challenges. <i>Nano Research</i> , 2022, 15, 9906-9920.	5.8	11
32	Dewetting on porous media. <i>Europhysics Letters</i> , 2001, 56, 414-419.	0.7	9
33	Biomimetic ion channels formation by emulsion based on chemically modified cyclodextrin nanotubes. <i>Faraday Discussions</i> , 2018, 210, 41-54.	1.6	8
34	Unexpected Interactions of an Alternating Poly(ether Ester) with Artificial and Biological Bilipidic Membranes. <i>Macromolecular Symposia</i> , 2010, 287, 60-68.	0.4	4
35	DNA Unzipping and Protein Unfolding Using Nanopores. <i>Methods in Molecular Biology</i> , 2012, 870, 55-75.	0.4	4
36	From current trace to the understanding of confined media. <i>European Physical Journal E</i> , 2018, 41, 99.	0.7	4

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37	Nanoparticle Electrical Analysis and Detection with a Solid-state Nanopore in a Microfluidic Device. <i>Procedia Engineering</i> , 2016, 168, 1475-1478.	1.2	3
38	Direct FIB fabrication and integration of "single nanopore devices" for the manipulation of macromolecules. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1191, 78.	0.1	2
39	Tailoring nanopores for efficient sensing of different biomolecules. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1253, 33.	0.1	1
40	Dynamics of a polyelectrolyte through aerolysin channel as a function of applied voltage and concentration". <i>European Physical Journal E</i> , 2018, 41, 58.	0.7	1