JÃ©rÃ´me Mathe

List of Publications by Year
in descending order

27 papers	1,673 citations	516710 16 h-index	552781 26 g-index
27 all docs	27 docs citations	27 times ranked	1384 citing authors

#	Article	IF	Citations
1	Current Rectification and Ionic Selectivity of Î±-Hemolysin: Coarse-Grained Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2022, 126, 4189-4199.	2.6	2
2	Temperatureâ€Sensitive Amphiphilic Nonâ€Ionic Triblock Copolymers for Enhanced In Vivo Skeletal Muscle Transfection. Macromolecular Bioscience, 2020, 20, 1900276.	4.1	5
3	Comparative biosensing of glycosaminoglycan hyaluronic acid oligo- and polysaccharides using aerolysin and $ alpha$Î±-hemolysin nanoporesâ‹†. European Physical Journal E, 2018, 41, 127.	1.6	12
4	Temperature Effect on Ionic Current and ssDNA Transport through Nanopores. Biophysical Journal, 2015, 109, 1600-1607.	0.5	45
5	Zero-Mode Waveguide Detection of Flow-Driven DNA Translocation through Nanopores. Physical Review Letters, 2014, 113, 028302.	7.8	37
6	FIB patterning of dielectric, metallized and graphene membranes: A comparative study. Microelectronic Engineering, 2014, 121, 87-91.	2.4	25
7	Flow Injection of DNA in Nanopores : Direct Optical Visualization of a Pressure Threshold. Biophysical Journal, 2014, 106, 211a.	0.5	0
8	Protein Unfolding Through Nanopores. Protein and Peptide Letters, 2014, 21, 266-274.	0.9	11
9	Thermal Unfolding of Proteins Probed at the Single Molecule Level Using Nanopores. Analytical Chemistry, 2012, 84, 4071-4076.	6.5	127
10	Mapping the Conformational Stability of Maltose Binding Protein at the Residue Scale Using Nuclear Magnetic Resonance Hydrogen Exchange Experiments. Biochemistry, 2012, 51, 8919-8930.	2.5	5
11	The richness of the eye of a needle. Physics of Life Reviews, 2012, 9, 159-160.	2.8	1
12	DNA Unzipping and Protein Unfolding Using Nanopores. Methods in Molecular Biology, 2012, 870, 55-75.	0.9	4
13	Rectification of the Current in Î±-Hemolysin Pore Depends on the Cation Type: The Alkali Series Probed by Molecular Dynamics Simulations and Experiments. Journal of Physical Chemistry C, 2011, 115, 4255-4264.	3.1	68
14	Nanopore Force Spectroscopy Tools for Analyzing Single Biomolecular Complexes. Methods in Enzymology, 2010, 475, 565-589.	1.0	24
15	DNA Translocation and Unzipping through a Nanopore: Some Geometrical Effects. Biophysical Journal, 2010, 98, 2170-2178.	0.5	34
16	Diffusion of latex and DNA chains in 2D confined media. Journal of Colloid and Interface Science, 2008, 322, 315-320.	9.4	7
17	Effect of screening on the transport of polyelectrolytes through nanopores. Europhysics Letters, 2008, 82, 48003.	2.0	47
18	Orientation-dependent interactions of DNA with an<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î±</mml:mi></mml:math>-hemolysin channel. Physical Review E, 2008, 77, 031904.	2.1	26

#	Article	IF	Citations
19	Dynamics of Polyelectrolyte Transport through a Protein Channel as a Function of Applied Voltage. Physical Review Letters, 2008, 100, 158302.	7.8	62
20	Unfolding of Proteins and Long Transient Conformations Detected by Single Nanopore Recording. Physical Review Letters, 2007, 98, 158101.	7.8	258
21	Urea denaturation of Î±-hemolysin pore inserted in planar lipid bilayer detected by single nanopore recording: Loss of structural asymmetry. FEBS Letters, 2007, 581, 3371-3376.	2.8	44
22	Extracting Kinetics from Single-Molecule Force Spectroscopy: Nanopore Unzipping of DNA Hairpins. Biophysical Journal, 2007, 92, 4188-4195.	0.5	174
23	Electrophoretic separation of large DNAs using steric confinement. Journal of Colloid and Interface Science, 2007, 316, 831-835.	9.4	11
24	Self-Energy-Limited Ion Transport in Subnanometer Channels. Physical Review Letters, 2006, 97, 128104.	7.8	62
25	Orientation discrimination of single-stranded DNA inside the Â-hemolysin membrane channel. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12377-12382.	7.1	308
26	Nanopore Unzipping of Individual DNA Hairpin Molecules. Biophysical Journal, 2004, 87, 3205-3212.	0.5	273
27	Mosaics and Two-Dimensional Foams of Freely Suspended Soap Films. Langmuir, 2001, 17, 6736-6739.	3.5	1