

# JÃ©rÃ©me Mathe

## List of Publications by Year in descending order

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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	Orientation discrimination of single-stranded DNA inside the $\alpha$ -hemolysin membrane channel. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12377-12382.	7.1	308
2	Nanopore Unzipping of Individual DNA Hairpin Molecules. Biophysical Journal, 2004, 87, 3205-3212.	0.5	273
3	Unfolding of Proteins and Long Transient Conformations Detected by Single Nanopore Recording. Physical Review Letters, 2007, 98, 158101.	7.8	258
4	Extracting Kinetics from Single-Molecule Force Spectroscopy: Nanopore Unzipping of DNA Hairpins. Biophysical Journal, 2007, 92, 4188-4195.	0.5	174
5	Thermal Unfolding of Proteins Probed at the Single Molecule Level Using Nanopores. Analytical Chemistry, 2012, 84, 4071-4076.	6.5	127
6	Rectification of the Current in $\alpha$ -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
7	Self-Energy-Limited Ion Transport in Subnanometer Channels. Physical Review Letters, 2006, 97, 128104.	7.8	62
8	Dynamics of Polyelectrolyte Transport through a Protein Channel as a Function of Applied Voltage. Physical Review Letters, 2008, 100, 158302.	7.8	62
9	Effect of screening on the transport of polyelectrolytes through nanopores. Europhysics Letters, 2008, 82, 48003.	2.0	47
10	Temperature Effect on Ionic Current and ssDNA Transport through Nanopores. Biophysical Journal, 2015, 109, 1600-1607.	0.5	45
11	Urea denaturation of $\alpha$ -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
12	Zero-Mode Waveguide Detection of Flow-Driven DNA Translocation through Nanopores. Physical Review Letters, 2014, 113, 028302.	7.8	37
13	DNA Translocation and Unzipping through a Nanopore: Some Geometrical Effects. Biophysical Journal, 2010, 98, 2170-2178.	0.5	34
14	Orientation-dependent interactions of DNA with an $\alpha$ -hemolysin channel. Physical Review E, 2008, 77, 031904.	2.1	26
15	FIB patterning of dielectric, metallized and graphene membranes: A comparative study. Microelectronic Engineering, 2014, 121, 87-91.	2.4	25
16	Nanopore Force Spectroscopy Tools for Analyzing Single Biomolecular Complexes. Methods in Enzymology, 2010, 475, 565-589.	1.0	24
17	Comparative biosensing of glycosaminoglycan hyaluronic acid oligo- and polysaccharides using aerolysin and $\alpha$ -hemolysin nanopores. European Physical Journal E, 2018, 41, 127.	1.6	12
18	Electrophoretic separation of large DNAs using steric confinement. Journal of Colloid and Interface Science, 2007, 316, 831-835.	9.4	11

#	ARTICLE	IF	CITATIONS
19	Protein Unfolding Through Nanopores. Protein and Peptide Letters, 2014, 21, 266-274.	0.9	11
20	Diffusion of latex and DNA chains in 2D confined media. Journal of Colloid and Interface Science, 2008, 322, 315-320.	9.4	7
21	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
22	Temperature-sensitive Amphiphilic Non-ionic Triblock Copolymers for Enhanced In Vivo Skeletal Muscle Transfection. Macromolecular Bioscience, 2020, 20, 1900276.	4.1	5
23	DNA Unzipping and Protein Unfolding Using Nanopores. Methods in Molecular Biology, 2012, 870, 55-75.	0.9	4
24	Current Rectification and Ionic Selectivity of $\beta$ -Hemolysin: Coarse-Grained Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2022, 126, 4189-4199.	2.6	2
25	Mosaics and Two-Dimensional Foams of Freely Suspended Soap Films. Langmuir, 2001, 17, 6736-6739.	3.5	1
26	The richness of the eye of a needle. Physics of Life Reviews, 2012, 9, 159-160.	2.8	1
27	Flow Injection of DNA in Nanopores : Direct Optical Visualization of a Pressure Threshold. Biophysical Journal, 2014, 106, 211a.	0.5	0