Manuela Pastoriza-Gallego

List of Publications by Year
in descending order

22 papers	1,697 citations	471509 17 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	987 citing authors

#	Article	IF	Citations
1	Dynamics of Unfolded Protein Transport through an Aerolysin Pore. Journal of the American Chemical Society, 2011, 133, 2923-2931.	13.7	204
2	Identification of single amino acid differences in uniformly charged homopolymeric peptides with aerolysin nanopore. Nature Communications, 2018, 9, 966.	12.8	204
3	Dynamics of Completely Unfolded and Native Proteins through Solid-State Nanopores as a Function of Electric Driving Force. ACS Nano, 2011, 5, 3628-3638.	14.6	175
4	Sensing Proteins through Nanopores: Fundamental to Applications. ACS Chemical Biology, 2012, 7, 1935-1949.	3.4	164
5	Thermal Unfolding of Proteins Probed at the Single Molecule Level Using Nanopores. Analytical Chemistry, 2012, 84, 4071-4076.	6.5	127
6	Protein Transport through a Narrow Solid-State Nanopore at High Voltage: Experiments and Theory. ACS Nano, 2012, 6, 6236-6243.	14.6	126
7	Wild Type, Mutant Protein Unfolding and Phase Transition Detected by Single-Nanopore Recording. ACS Chemical Biology, 2012, 7, 652-658.	3.4	119
8	Probing driving forces in aerolysin and Î±-hemolysin biological nanopores: electrophoresis versus electroosmosis. Nanoscale, 2016, 8, 18352-18359.	5.6	78
9	Single Molecule Detection of Glycosaminoglycan Hyaluronic Acid Oligosaccharides and Depolymerization Enzyme Activity Using a Protein Nanopore. ACS Nano, 2012, 6, 9672-9678.	14.6	74
10	Evidence of Unfolded Protein Translocation through a Protein Nanopore. ACS Nano, 2014, 8, 11350-11360.	14.6	74
11	Kinetics of Enzymatic Degradation of High Molecular Weight Polysaccharides through a Nanopore: Experiments and Data-Modeling. Analytical Chemistry, 2013, 85, 8488-8492.	6.5	67
12	Nanopore-Based Protein Identification. Journal of the American Chemical Society, 2022, 144, 2716-2725.	13.7	64
13	Aerolysin, a Powerful Protein Sensor for Fundamental Studies and Development of Upcoming Applications. ACS Sensors, 2019, 4, 530-548.	7.8	47
14	Temperature Effect on Ionic Current and ssDNA Transport through Nanopores. Biophysical Journal, 2015, 109, 1600-1607.	0.5	45
15	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
16	Polyelectrolyte Entry and Transport through an Asymmetric Î±-Hemolysin Channel. Journal of Physical Chemistry B, 2008, 112, 14687-14691.	2.6	36
17	Polyelectrolyte and unfolded protein pore entrance depends on the pore geometry. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1377-1386.	2.6	27
18	Pore-forming toxins as tools for polymer analytics: From sizing to sequencing. Methods in Enzymology, 2021, 649, 587-634.	1.0	7

#	Article	IF	Citations
19	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
20	Polypeptide analysis for nanopore-based protein identification. Nano Research, 2022, 15, 9831-9842.	10.4	5
21	DNA Unzipping and Protein Unfolding Using Nanopores. Methods in Molecular Biology, 2012, 870, 55-75.	0.9	4
22	Dynamics of a polyelectrolyte through aerolysin channel as a function of applied voltage and concentrationâ‹†. European Physical Journal E, 2018, 41, 58.	1.6	1