Juan Pelta

List of Publications by Year
in descending order

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49
papers

2,905
citations

201674
27
h-index

223800
46
g-index

49
all docs

49
docs citations

49
times ranked

1980
citing authors

#	Article	IF	Citations
1	Selfâ€Healing: An Emerging Technology for Nextâ€Generation Smart Batteries. Advanced Energy Materials, 2022, 12, 2102652.	19.5	47
2	Focus on using nanopore technology for societal health, environmental, and energy challenges. Nano Research, 2022, 15, 9906-9920.	10.4	11
3	Selective target protein detection using a decorated nanopore into a microfluidic device. Biosensors and Bioelectronics, 2021, 183, 113195.	10.1	17
4	Electrical recognition of the twenty proteinogenic amino acids using an aerolysin nanopore. Nature Biotechnology, 2020, 38, 176-181.	17.5	308
5	Single-sulfur atom discrimination of polysulfides with a protein nanopore for improved batteries. Communications Materials, 2020, 1, .	6.9	36
6	Mapping and Modeling the Nanomechanics of Bare and Protein-Coated Lipid Nanotubes. Physical Review X, 2020, 10, .	8.9	7
7	The Promise of Nanopore Technology: Advances in the Discrimination of Protein Sequences and Chemical Modifications. Small Methods, 2020, 4, 2000090.	8.6	40
8	Aerolysin, a Powerful Protein Sensor for Fundamental Studies and Development of Upcoming Applications. ACS Sensors, 2019, 4, 530-548.	7.8	47
9	Identification of single amino acid differences in uniformly charged homopolymeric peptides with aerolysin nanopore. Nature Communications, 2018, 9, 966.	12.8	204
10	Biomimetic ion channels formation by emulsion based on chemically modified cyclodextrin nanotubes. Faraday Discussions, 2018, 210, 41-54.	3.2	8
11	Solid-State Nanopore Easy Chip Integration in a Cheap and Reusable Microfluidic Device for Ion Transport and Polymer Conformation Sensing. ACS Sensors, 2018, 3, 2129-2137.	7.8	21
12	Processes at nanopores and bio-nanointerfaces: general discussion. Faraday Discussions, 2018, 210, 145-171.	3.2	3
13	Energy conversion at nanointerfaces: general discussion. Faraday Discussions, 2018, 210, 333-351.	3.2	0
14	From current trace to the understanding of confined media. European Physical Journal E, 2018, 41, 99.	1.6	4
15	Versatile cyclodextrin nanotube synthesis with functional anchors for efficient ion channel formation: design, characterization and ion conductance. Nanoscale, 2018, 10, 15303-15316.	5.6	11
16	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
17	Metal-Organic Polyhedra to Control the Conductance of a Lipid Membrane. CheM, 2017, 2, 459-460.	11.7	4
18	Functionalized Solid-State Nanopore Integrated in a Reusable Microfluidic Device for a Better Stability and Nanoparticle Detection. ACS Applied Materials & Interfaces, 2017, 9, 41634-41640.	8.0	42

#	ARTICLE	IF	CITATIONS
19	Nanoparticle Electrical Analysis and Detection with a Solid-state Nanopore in a Microfluidic Device. Procedia Engineering, 2016, 168, 1475-1478.	1.2	3
20	High Temperature Extends the Range of Size Discrimination of Nonionic Polymers by a Biological Nanopore. Scientific Reports, 2016, 6, 38675.	3.3	23
21	Elasticity, Adhesion, and Tether Extrusion on Breast Cancer Cells Provide a Signature of Their Invasive Potential. ACS Applied Materials & Interfaces, 2016, 8, 27426-27431.	8.0	55
22	Probing driving forces in aerolysin and Î±-hemolysin biological nanopores: electrophoresis versus electroosmosis. Nanoscale, 2016, 8, 18352-18359.	5.6	78
23	High-Resolution Size-Discrimination of Single Nonionic Synthetic Polymers with a Highly Charged Biological Nanopore. ACS Nano, 2015, 9, 6443-6449.	14.6	106
24	Temperature Effect on Ionic Current and ssDNA Transport through Nanopores. Biophysical Journal, 2015, 109, 1600-1607.	0.5	45
25	Biomimetic Nanotubes Based on Cyclodextrins for Ion-Channel Applications. Nano Letters, 2015, 15, 7748-7754.	9.1	30
26	Dynamics and Energy Contributions for Transport of Unfolded Pertactin through a Protein Nanopore. ACS Nano, 2015, 9, 9050-9061.	14.6	52
27	Editorial Peptides and Proteins View by Nanopores: Experiments, Simulations and Theory. Protein and Peptide Letters, 2014, 21, 201-201.	0.9	0
28	Electroosmosis through Î±-Hemolysin That Depends on Alkali Cation Type. Journal of Physical Chemistry Letters, 2014, 5, 4362-4367.	4.6	42
29	Focus on Protein Unfolding Through Nanopores. BioNanoScience, 2014, 4, 111-118.	3.5	23
30	Evidence of Unfolded Protein Translocation through a Protein Nanopore. ACS Nano, 2014, 8, 11350-11360.	14.6	74
31	Protein Unfolding Through Nanopores. Protein and Peptide Letters, 2014, 21, 266-274.	0.9	11
32	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
33	Exploration of Neutral Versus Polyelectrolyte Behavior of Poly(ethylene glycol)s in Alkali Ion Solutions using Single-Nanopore Recording. Journal of Physical Chemistry Letters, 2013, 4, 2202-2208.	4.6	49
34	Transport of Long Neutral Polymers in the Semidilute Regime through a Protein Nanopore. Physical Review Letters, 2012, 108, 088104.	7.8	35
35	Wild Type, Mutant Protein Unfolding and Phase Transition Detected by Single-Nanopore Recording. ACS Chemical Biology, 2012, 7, 652-658.	3.4	119
36	Thermal Unfolding of Proteins Probed at the Single Molecule Level Using Nanopores. Analytical Chemistry, 2012, 84, 4071-4076.	6.5	127

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37	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
38	Sensing Proteins through Nanopores: Fundamental to Applications. ACS Chemical Biology, 2012, 7, 1935-1949.	3.4	164
39	Protein Transport through a Narrow Solid-State Nanopore at High Voltage: Experiments and Theory. ACS Nano, 2012, 6, 6236-6243.	14.6	126
40	DNA Unzipping and Protein Unfolding Using Nanopores. Methods in Molecular Biology, 2012, 870, 55-75.	0.9	4
41	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
42	Dynamics of Unfolded Protein Transport through an Aerolysin Pore. Journal of the American Chemical Society, 2011, 133, 2923-2931.	13.7	204
43	Polyelectrolyte and unfolded protein pore entrance depends on the pore geometry. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1377-1386.	2.6	27
44	Polyelectrolyte Entry and Transport through an Asymmetric Î±-Hemolysin Channel. Journal of Physical Chemistry B, 2008, 112, 14687-14691.	2.6	36
45	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
46	Polymorphism of DNA/Multi-cationic Lipid Complexes Driven by Temperature and Salts. Journal of Physical Chemistry B, 2001, 105, 5291-5297.	2.6	26
47	Gelâ€“sol transition can describe the proteolysis of extracellular matrix gels. Biochimica Et Biophysica Acta - General Subjects, 2000, 1524, 110-117.	2.4	20
48	DNA Aggregation Induced by Polyamines and Cobalthexamine. Journal of Biological Chemistry, 1996, 271, 5656-5662.	3.4	324
49	Microphases of spermidine-condensed DNA. Structural analysis by cryoelectron microscopy. Biology of the Cell, 1995, 84, 225-225.	2.0	0