

Chan Cao

List of Publications by Year in descending order

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44
papers

1,855
citations

304368

22
h-index

301761

39
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44
all docs

44
docs citations

44
times ranked

1337
citing authors

#	ARTICLE	IF	CITATIONS
1	Discrimination of oligonucleotides of different lengths with a wild-type aerolysin nanopore. <i>Nature Nanotechnology</i> , 2016, 11, 713-718.	15.6	333
2	The emerging landscape of single-molecule protein sequencing technologies. <i>Nature Methods</i> , 2021, 18, 604-617.	9.0	198
3	Biological Nanopores: Confined Spaces for Electrochemical Single-Molecule Analysis. <i>Accounts of Chemical Research</i> , 2018, 51, 331-341.	7.6	130
4	Single molecule analysis by biological nanopore sensors. <i>Analyst, The</i> , 2014, 139, 3826-3835.	1.7	93
5	Accurate Data Process for Nanopore Analysis. <i>Analytical Chemistry</i> , 2015, 87, 907-913.	3.2	92
6	Single-molecule sensing of peptides and nucleic acids by engineered aerolysin nanopores. <i>Nature Communications</i> , 2019, 10, 4918.	5.8	74
7	Analysis of a Single α -Synuclein Fibrillation by the Interaction with a Protein Nanopore. <i>Analytical Chemistry</i> , 2013, 85, 8254-8261.	3.2	67
8	A single biomolecule interface for advancing the sensitivity, selectivity and accuracy of sensors. <i>National Science Review</i> , 2018, 5, 450-452.	4.6	64
9	Identification of Essential Sensitive Regions of the Aerolysin Nanopore for Single Oligonucleotide Analysis. <i>Analytical Chemistry</i> , 2018, 90, 7790-7794.	3.2	61
10	Mapping the sensing spots of aerolysin for single oligonucleotides analysis. <i>Nature Communications</i> , 2018, 9, 2823.	5.8	60
11	A Stimuli-Responsive Nanopore Based on a Photoresponsive Host-Guest System. <i>Scientific Reports</i> , 2013, 3, 1662.	1.6	58
12	Aerolysin nanopores decode digital information stored in tailored macromolecular analytes. <i>Science Advances</i> , 2020, 6, .	4.7	57
13	Rationally Designed Sensing Selectivity and Sensitivity of an Aerolysin Nanopore via Site-Directed Mutagenesis. <i>ACS Sensors</i> , 2018, 3, 779-783.	4.0	55
14	Detection of Peptides with Different Charges and Lengths by Using the Aerolysin Nanopore. <i>ChemElectroChem</i> , 2019, 6, 126-129.	1.7	55
15	Selective and Sensitive Detection of Methylcytosine by Aerolysin Nanopore under Serum Condition. <i>Analytical Chemistry</i> , 2017, 89, 11685-11689.	3.2	52
16	Driven Translocation of Polynucleotides Through an Aerolysin Nanopore. <i>Analytical Chemistry</i> , 2016, 88, 5046-5049.	3.2	51
17	Construction of an aerolysin nanopore in a lipid bilayer for single-oligonucleotide analysis. <i>Nature Protocols</i> , 2017, 12, 1901-1911.	5.5	50
18	Direct Readout of Single Nucleobase Variations in an Oligonucleotide. <i>Small</i> , 2017, 13, 1702011.	5.2	39

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19	Real-Time and Accurate Identification of Single Oligonucleotide Photoisomers via an Aerolysin Nanopore. <i>Analytical Chemistry</i> , 2018, 90, 4268-4272.	3.2	34
20	A Time-Resolved Single-Molecular Train Based on Aerolysin Nanopore. <i>CheM</i> , 2018, 4, 1893-1901.	5.8	33
21	Single molecule study of initial structural features on the amyloidosis process. <i>Chemical Communications</i> , 2016, 52, 5542-5545.	2.2	26
22	Biological nanopores for single-molecule sensing. <i>IScience</i> , 2022, 25, 104145.	1.9	25
23	A General Strategy of Aerolysin Nanopore Detection for Oligonucleotides with the Secondary Structure. <i>Small</i> , 2018, 14, e1704520.	5.2	21
24	Enhanced Resolution of Low Molecular Weight Poly(Ethylene Glycol) in Nanopore Analysis. <i>Analytical Chemistry</i> , 2014, 86, 11946-11950.	3.2	20
25	Reply to Comment on Accurate Data Process for Nanopore Analysis. <i>Analytical Chemistry</i> , 2015, 87, 10653-10656.	3.2	15
26	Monitoring disulfide bonds making and breaking in biological nanopore at single molecule level. <i>Science China Chemistry</i> , 2018, 61, 1385-1388.	4.2	14
27	Real-time monitoring of the oxidative response of a membrane channel biomimetic system to free radicals. <i>Chemical Communications</i> , 2013, 49, 6584.	2.2	13
28	Single-molecule studies of amyloid proteins: from biophysical properties to diagnostic perspectives. <i>Quarterly Reviews of Biophysics</i> , 2020, 53, e12.	2.4	12
29	A Low Noise Amplifier System for Nanopore-based Single Molecule Analysis. <i>Chinese Journal of Analytical Chemistry</i> , 2015, 43, 971-976.	0.9	11
30	Detection of Single Oligonucleotide by an Aerolysin Nanopore. <i>Acta Chimica Sinica</i> , 2016, 74, 734.	0.5	11
31	Real-time plasmonic monitoring of electrocatalysis on single nanorods. <i>Journal of Electroanalytical Chemistry</i> , 2016, 781, 257-264.	1.9	10
32	Single-Molecule Analysis of Colorectal Cancer-associated MicroRNAs via a Biological Nanopore. <i>Acta Chimica Sinica</i> , 2017, 75, 1087.	0.5	7
33	Dynamics of nanointerfaces: general discussion. <i>Faraday Discussions</i> , 2018, 210, 451-479.	1.6	4
34	Biosensing: A General Strategy of Aerolysin Nanopore Detection for Oligonucleotides with the Secondary Structure (<i>Small</i> 18/2018). <i>Small</i> , 2018, 14, 1870080.	5.2	3
35	Detection of DNA Methylation with Aerolysin Nanopore. <i>Biophysical Journal</i> , 2017, 112, 332a.	0.2	2
36	Ultrasensitive Label-Free Detection of Protein-Membrane Interaction Exemplified by Toxin-Liposome Insertion. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 3197-3201.	2.1	2

#	ARTICLE	IF	CITATIONS
37	Alkyl detection facilitated by a DNA conjugate with an α -hemolysin nanopore. RSC Advances, 2016, 6, 105-108.	1.7	1
38	Processes at nanoelectrodes: general discussion. Faraday Discussions, 2018, 210, 235-265.	1.6	1
39	Decoding Digital Information Stored in Polymer by Nanopore. Biophysical Journal, 2021, 120, 98a.	0.2	1
40	Single-Molecule Masspic Analysis of Short-Chain PEG. Biophysical Journal, 2016, 110, 639a.	0.2	0
41	Single Nucleotide Discrimination with Electro-Optical Nanopore. Biophysical Journal, 2016, 110, 656a.	0.2	0
42	Single Oligonucleotide Discrimination with Aerolysin Nanopore. Biophysical Journal, 2016, 110, 654a.	0.2	0
43	Length- and Species-Selective Detection of Short Oligonucleotides using a Microelectrode Cavity Array of Biological Nanopores. Biophysical Journal, 2016, 110, 200a.	0.2	0
44	Direct Identification of Adenine, Thymine, Cytosine and Guanine using Aerolysin Nanopore. Biophysical Journal, 2017, 112, 460a.	0.2	0