

# 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  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1337  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biological nanopores for single-molecule sensing. <i>IScience</i> , 2022, 25, 104145.	1.9	25
2	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
3	Decoding Digital Information Stored in Polymer by Nanopore. <i>Biophysical Journal</i> , 2021, 120, 98a.	0.2	1
4	The emerging landscape of single-molecule protein sequencing technologies. <i>Nature Methods</i> , 2021, 18, 604-617.	9.0	198
5	Aerolysin nanopores decode digital information stored in tailored macromolecular analytes. <i>Science Advances</i> , 2020, 6, .	4.7	57
6	Single-molecule studies of amyloid proteins: from biophysical properties to diagnostic perspectives. <i>Quarterly Reviews of Biophysics</i> , 2020, 53, e12.	2.4	12
7	Single-molecule sensing of peptides and nucleic acids by engineered aerolysin nanopores. <i>Nature Communications</i> , 2019, 10, 4918.	5.8	74
8	Detection of Peptides with Different Charges and Lengths by Using the Aerolysin Nanopore. <i>ChemElectroChem</i> , 2019, 6, 126-129.	1.7	55
9	Real-Time and Accurate Identification of Single Oligonucleotide Photoisomers via an Aerolysin Nanopore. <i>Analytical Chemistry</i> , 2018, 90, 4268-4272.	3.2	34
10	A General Strategy of Aerolysin Nanopore Detection for Oligonucleotides with the Secondary Structure. <i>Small</i> , 2018, 14, e1704520.	5.2	21
11	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
12	Biological Nanopores: Confined Spaces for Electrochemical Single-Molecule Analysis. <i>Accounts of Chemical Research</i> , 2018, 51, 331-341.	7.6	130
13	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
14	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
15	Processes at nanoelectrodes: general discussion. <i>Faraday Discussions</i> , 2018, 210, 235-265.	1.6	1
16	Dynamics of nanointerfaces: general discussion. <i>Faraday Discussions</i> , 2018, 210, 451-479.	1.6	4
17	Mapping the sensing spots of aerolysin for single oligonucleotides analysis. <i>Nature Communications</i> , 2018, 9, 2823.	5.8	60
18	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

#	ARTICLE	IF	CITATIONS
19	Identification of Essential Sensitive Regions of the Aerolysin Nanopore for Single Oligonucleotide Analysis. <i>Analytical Chemistry</i> , 2018, 90, 7790-7794.	3.2	61
20	A Time-Resolved Single-Molecular Train Based on Aerolysin Nanopore. <i>CheM</i> , 2018, 4, 1893-1901.	5.8	33
21	Detection of DNA Methylation with Aerolysin Nanopore. <i>Biophysical Journal</i> , 2017, 112, 332a.	0.2	2
22	Direct Identification of Adenine, Thymine, Cytosine and Guanine using Aerolysin Nanopore. <i>Biophysical Journal</i> , 2017, 112, 460a.	0.2	0
23	Selective and Sensitive Detection of Methylcytosine by Aerolysin Nanopore under Serum Condition. <i>Analytical Chemistry</i> , 2017, 89, 11685-11689.	3.2	52
24	Direct Readout of Single Nucleobase Variations in an Oligonucleotide. <i>Small</i> , 2017, 13, 1702011.	5.2	39
25	Construction of an aerolysin nanopore in a lipid bilayer for single-oligonucleotide analysis. <i>Nature Protocols</i> , 2017, 12, 1901-1911.	5.5	50
26	Single-Molecule Analysis of Colorectal Cancer-associated MicroRNAs via a Biological Nanopore. <i>Acta Chimica Sinica</i> , 2017, 75, 1087.	0.5	7
27	Real-time plasmonic monitoring of electrocatalysis on single nanorods. <i>Journal of Electroanalytical Chemistry</i> , 2016, 781, 257-264.	1.9	10
28	Single-Molecule Masspic Analysis of Short-Chain PEG. <i>Biophysical Journal</i> , 2016, 110, 639a.	0.2	0
29	Single Nucleotide Discrimination with Electro-Optical Nanopore. <i>Biophysical Journal</i> , 2016, 110, 656a.	0.2	0
30	Single Oligonucleotide Discrimination with Aerolysin Nanopore. <i>Biophysical Journal</i> , 2016, 110, 654a.	0.2	0
31	Driven Translocation of Polynucleotides Through an Aerolysin Nanopore. <i>Analytical Chemistry</i> , 2016, 88, 5046-5049.	3.2	51
32	Discrimination of oligonucleotides of different lengths with a wild-type aerolysin nanopore. <i>Nature Nanotechnology</i> , 2016, 11, 713-718.	15.6	333
33	Length- and Species-Selective Detection of Short Oligonucleotides using a Microelectrode Cavity Array of Biological Nanopores. <i>Biophysical Journal</i> , 2016, 110, 200a.	0.2	0
34	Single molecule study of initial structural features on the amyloidosis process. <i>Chemical Communications</i> , 2016, 52, 5542-5545.	2.2	26
35	Alkyl detection facilitated by a DNA conjugate with an $\hat{\iota}$ -hemolysin nanopore. <i>RSC Advances</i> , 2016, 6, 105-108.	1.7	1
36	Detection of Single Oligonucleotide by an Aerolysin Nanopore. <i>Acta Chimica Sinica</i> , 2016, 74, 734.	0.5	11

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37	Accurate Data Process for Nanopore Analysis. <i>Analytical Chemistry</i> , 2015, 87, 907-913.	3.2	92
38	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
39	Reply to Comment on Accurate Data Process for Nanopore Analysis. <i>Analytical Chemistry</i> , 2015, 87, 10653-10656.	3.2	15
40	Enhanced Resolution of Low Molecular Weight Poly(Ethylene Glycol) in Nanopore Analysis. <i>Analytical Chemistry</i> , 2014, 86, 11946-11950.	3.2	20
41	Single molecule analysis by biological nanopore sensors. <i>Analyst, The</i> , 2014, 139, 3826-3835.	1.7	93
42	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
43	Analysis of a Single $\alpha$ -Synuclein Fibrillation by the Interaction with a Protein Nanopore. <i>Analytical Chemistry</i> , 2013, 85, 8254-8261.	3.2	67
44	A Stimuli-Responsive Nanopore Based on a Photoresponsive Host-Guest System. <i>Scientific Reports</i> , 2013, 3, 1662.	1.6	58