Yuqin Wang

List of Publications by Year
in descending order

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30 papers	680 citations	516710 16 h-index	580821 25 g-index
31 all docs	31 docs citations	31 times ranked	331 citing authors

#	Article	IF	Citations
1	Single Molecule Ratcheting Motion of Peptides in a Mycobacterium smegmatis Porin A (MspA) Nanopore. Nano Letters, 2021, 21, 6703-6710.	9.1	95
2	Giant single molecule chemistry events observed from a tetrachloroaurate(III) embedded Mycobacterium smegmatis porin A nanopore. Nature Communications, 2019, 10, 5668.	12.8	60
3	Identification of nucleoside monophosphates and their epigenetic modifications using an engineered nanopore. Nature Nanotechnology, 2022, 17, 976-983.	31.5	48
4	Single molecule observation of hardâ€“soft-acidâ€“base (HSAB) interaction in engineeredMycobacterium smegmatisporin A (MspA) nanopores. Chemical Science, 2020, 11, 879-887.	7.4	47
5	Structural-profiling of low molecular weight RNAs by nanopore trapping/translocation using Mycobacterium smegmatis porin A. Nature Communications, 2021, 12, 3368.	12.8	42
6	A Nanoporeâ€Based Saccharide Sensor. Angewandte Chemie - International Edition, 2022, 61, .	13.8	36
7	Direct sequencing of 2â€²-deoxy-2â€²-fluoroarabinonucleic acid (FANA) using nanopore-induced phase-shift sequencing (NIPSS). Chemical Science, 2019, 10, 3110-3117.	7.4	35
8	Electrode-free nanopore sensing by DiffusiOptoPhysiology. Science Advances, 2019, 5, eaar3309.	10.3	31
9	Nanopore Sequencing Accurately Identifies the Mutagenic DNA Lesion O⁶â€Carboxymethyl Guanine and Reveals Its Behavior in Replication. Angewandte Chemie - International Edition, 2019, 58, 8432-8436.	13.8	30
10	Machine Learning Assisted Simultaneous Structural Profiling of Differently Charged Proteins in a Mycobacterium smegmatis Porin A (MspA) Electroosmotic Trap. Journal of the American Chemical Society, 2022, 144, 757-768.	13.7	30
11	Programmable nano-reactors for stochastic sensing. Nature Communications, 2021, 12, 5811.	12.8	29
12	Osmosis-Driven Motion-Type Modulation of Biological Nanopores for Parallel Optical Nucleic Acid Sensing. ACS Applied Materials & Interfaces, 2018, 10, 7788-7797.	8.0	27
13	Direct microRNA Sequencing Using Nanopore-Induced Phase-Shift Sequencing. IScience, 2020, 23, 100916.	4.1	26
14	Allosteric Switching of Calmodulin in a Mycobacterium smegmatis porinâ€…A (MspA) Nanoporeâ€Trap. Angewandte Chemie - International Edition, 2021, 60, 23863-23870.	13.8	25
15	Identification of Single-Molecule Catecholamine Enantiomers Using a Programmable Nanopore. ACS Nano, 2022, 16, 6615-6624.	14.6	24
16	Retarded Translocation of Nucleic Acids through Î±-Hemolysin Nanopore in the Presence of a Calcium Flux. ACS Applied Materials & Interfaces, 2020, 12, 26926-26935.	8.0	19
17	Nanopore Sequencing Accurately Identifies the Cisplatin Adduct on DNA. ACS Sensors, 2021, 6, 3082-3092.	7.8	14
18	Mapping Potential Engineering Sites of Mycobacterium smegmatis porin A (MspA) to Form a Nanoreactor. ACS Sensors, 2021, 6, 2449-2456.	7.8	10

#	Article	IF	Citations
19	Rapid and multiplex preparation of engineered Mycobacterium smegmatis porin A (MspA) nanopores for single molecule sensing and sequencing. Chemical Science, 2021, 12, 9339-9346.	7.4	7
20	A Nanopore Based Molnupiravir Sensor. ACS Sensors, 2022, 7, 1564-1571.	7.8	7
21	A Single-Molecule Observation of Dichloroaurate(I) Binding to an Engineered Mycobacterium smegmatis porin A (MspA) Nanopore. Analytical Chemistry, 2021, 93, 1529-1536.	6.5	6
22	Nonâ€binary Encoded Nucleic Acid Barcodes Directly Readable by a Nanopore. Angewandte Chemie - International Edition, 2022, 61, .	13.8	6
23	Allosteric Switching of Calmodulin in a Mycobacterium smegmatis porinâ€...A (MspA) Nanoporeâ€Trap. Angewandte Chemie, 2021, 133, 24056.	2.0	5
24	Nanopore Sequencing Accurately Identifies the Mutagenic DNA Lesion O⁶â€Carboxymethyl Guanine and Reveals Its Behavior in Replication. Angewandte Chemie, 2019, 131, 8520-8524.	2.0	4
25	Microscopic Screening of Cyclodextrin Channel Blockers by DiffusiOptoPhysiology. Analytical Chemistry, 2021, 93, 14161-14168.	6.5	4
26	Discrimination between Different DNA Lesions by Monitoring Single-Molecule Polymerase Stalling Kinetics during Nanopore Sequencing. Nano Letters, 2022, 22, 5561-5569.	9.1	4
27	A Nanoporeâ€Based Saccharide Sensor. Angewandte Chemie, 2022, 134, .	2.0	4
28	S2Snet: deep learning for low molecular weight RNA identification with nanopore. Briefings in Bioinformatics, 2022, 23, .	6.5	3
29	Nonâ€binary Encoded Nucleic Acid Barcodes Directly Readable by a Nanopore. Angewandte Chemie, 2022, 134, .	2.0	1
30	Singleâ€Molecule Sensing of Acidic Catecholamine Metabolites Using a Programmable Nanopore. Chemistry - A European Journal, 2022, 28, .	3.3	1