

Xin Zhu

List of Publications by Year in descending order

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1937685

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58
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Experimental study of protein translocation through MoS ₂ nanopores. Applied Physics Letters, 2019, 115, . | 3.3 | 18 |
| 2 | Monolithic Integration of Vertical Thin-Film Transistors in Nanopores for Charge Sensing of Single Biomolecules. ACS Nano, 2021, 15, 9882-9889. | 14.6 | 13 |
| 3 | Transport-Induced Inversion of Screening Ionic Charges in Nanochannels. Journal of Physical Chemistry Letters, 2016, 7, 5235-5241. | 4.6 | 7 |
| 4 | Suppression of ion conductance by electro-osmotic flow in nano-channels with weakly overlapping electrical double layers. AIP Advances, 2016, 6, 085022. | 1.3 | 5 |
| 5 | Nanopores incorporating ITO electrodes for electrical gating of DNA at different folding states. , 2017, , . | | 4 |
| 6 | Detection of Single Protein Molecules Using MoS ₂ Nanopores of Various Sizes. , 2021, , . | | 3 |
| 7 | Effect of Intrachannel Ion Transport on Transient Characteristics of Nanochannels. Journal of Physical Chemistry C, 2018, 122, 19180-19188. | 3.1 | 2 |
| 8 | Experimental study of excessively-long translocation time of single DNA through sub-5 nanometer solid-state nanopores. IOP Conference Series: Earth and Environmental Science, 0, 632, 052072. | 0.3 | 2 |
| 9 | Characterization of ITO-SiNx Nanopores for Single-Biomolecular Sensing. , 2021, , . | | 2 |
| 10 | Numerical simulations of nonlinear current-voltage characteristics of nano-channels: A benchmark study. , 2016, , . | | 0 |
| 11 | Pressure Modulation of Ion Conductance and Selectivity in Nano-channels with Weakly Overlapping Electrical Double Layers. , 2018, , . | | 0 |
| 12 | Dwell time characterization of DNA translocation through ITO-SiNx nanopores. , 2021, , . | | 0 |
| 13 | Detection of Single Molecular DNA Charge Through TFT-Integrated Nanopore Biosensor. , 2022, , . | | 0 |
| 14 | Numerical Study of Single Molecular Charge Sensing by FET-Integrated Nanopore Biosensor. Materials Science Forum, 0, 1058, 99-104. | 0.3 | 0 |
| 15 | Analysis of Single BSA Protein Molecules Using MoS ₂ Nanopores [*] . , 2022, , . | | 0 |