

# Jared Houghtaling

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7926939/publications.pdf>

Version: 2024-02-01

36  
papers

3,742  
citations

279487

23  
h-index

377514

34  
g-index

36  
all docs

36  
docs citations

36  
times ranked

4089  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic Lipid Membrane Channels Formed by Designed DNA Nanostructures. <i>Science</i> , 2012, 338, 932-936.	6.0	659
2	Controlling protein translocation through nanopores with bio-inspired fluid walls. <i>Nature Nanotechnology</i> , 2011, 6, 253-260.	15.6	590
3	Real-time shape approximation and fingerprinting of single proteins using a nanopore. <i>Nature Nanotechnology</i> , 2017, 12, 360-367.	15.6	368
4	Two-Dimensional Paper Network Format That Enables Simple Multistep Assays for Use in Low-Resource Settings in the Context of Malaria Antigen Detection. <i>Analytical Chemistry</i> , 2012, 84, 4574-4579.	3.2	239
5	The emerging landscape of single-molecule protein sequencing technologies. <i>Nature Methods</i> , 2021, 18, 604-617.	9.0	198
6	Enhanced Sensitivity of Lateral Flow Tests Using a Two-Dimensional Paper Network Format. <i>Analytical Chemistry</i> , 2011, 83, 7941-7946.	3.2	196
7	Noise and Bandwidth of Current Recordings from Submicrometer Pores and Nanopores. <i>ACS Nano</i> , 2008, 2, 857-872.	7.3	134
8	Electroosmotic Flow Can Generate Ion Current Rectification in Nano- and Micropores. <i>ACS Nano</i> , 2010, 4, 477-487.	7.3	133
9	Submicrometer Pore-Based Characterization and Quantification of Antibody-Virus Interactions. <i>Small</i> , 2006, 2, 967-972.	5.2	121
10	It's Not a Bug, It's a Feature: Functional Materials in Insects. <i>Advanced Materials</i> , 2018, 30, e1705322.	11.1	120
11	Single-Particle Characterization of $\text{A}\beta^2$ Oligomers in Solution. <i>ACS Nano</i> , 2012, 6, 5909-5919.	7.3	108
12	Estimation of Shape, Volume, and Dipole Moment of Individual Proteins Freely Transiting a Synthetic Nanopore. <i>ACS Nano</i> , 2019, 13, 5231-5242.	7.3	107
13	Dissolvable Bridges for Manipulating Fluid Volumes in Paper Networks. <i>Analytical Chemistry</i> , 2013, 85, 11201-11204.	3.2	90
14	Label-Free Affinity Assays by Rapid Detection of Immune Complexes in Submicrometer Pores. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 2281-2285.	7.2	88
15	Multivariate Analyses of Amyloid-Beta Oligomer Populations Indicate a Connection between Pore Formation and Cytotoxicity. <i>PLoS ONE</i> , 2012, 7, e47261.	1.1	79
16	Surface coatings for solid-state nanopores. <i>Nanoscale</i> , 2019, 11, 19636-19657.	2.8	75
17	Formation of Single Nanopores with Diameters of 20-50 nm in Silicon Nitride Membranes Using Laser-Assisted Controlled Breakdown. <i>ACS Nano</i> , 2018, 12, 11458-11470.	7.3	59
18	Nanopore-Based, Rapid Characterization of Individual Amyloid Particles in Solution: Concepts, Challenges, and Prospects. <i>Small</i> , 2018, 14, e1802412.	5.2	53

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19	Ultrafast laser fabrication of submicrometer pores in borosilicate glass. <i>Optics Letters</i> , 2008, 33, 1153.	1.7	47
20	Hydrodynamic Slip on DNA Observed by Optical Tweezers-Controlled Translocation Experiments with Solid-State and Lipid-Coated Nanopores. <i>Nano Letters</i> , 2014, 14, 4176-4182.	4.5	35
21	Cyclohexane Rings Reduce Membrane Permeability to Small Ions in Archaea-Inspired Tetraether Lipids. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 1890-1893.	7.2	31
22	Investigation of Reagent Delivery Formats in a Multivalent Malaria Sandwich Immunoassay and Implications for Assay Performance. <i>Analytical Chemistry</i> , 2016, 88, 2311-2320.	3.2	29
23	Polymer Coatings to Minimize Protein Adsorption in Solid-State Nanopores. <i>Small Methods</i> , 2020, 4, 2000177.	4.6	25
24	Estimation of solid phase affinity constants using resistive-pulses from functionalized nanoparticles. <i>Biosensors and Bioelectronics</i> , 2007, 22, 1556-1560.	5.3	21
25	Controlled translocation of DNA through nanopores in carbon nano-, silicon-nitride- and lipid-coated membranes. <i>Analyst, The</i> , 2015, 140, 4843-4847.	1.7	18
26	Fluid surface coatings for solid-state nanopores: comparison of phospholipid bilayers and archaea-inspired lipid monolayers. <i>Nanotechnology</i> , 2019, 30, 325504.	1.3	16
27	Wafer-scale fabrication of fused silica chips for low-noise recording of resistive pulses through nanopores. <i>Nanotechnology</i> , 2019, 30, 265301.	1.3	16
28	Effect of Headgroups on Small-Ion Permeability across Archaea-Inspired Tetraether Lipid Membranes. <i>Chemistry - A European Journal</i> , 2016, 22, 8074-8077.	1.7	15
29	Single channel planar lipid bilayer recordings of the melittin variant MelP5. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 2051-2057.	1.4	14
30	Hybrid Lipids Inspired by Extremophiles and Eukaryotes Afford Serum-Stable Membranes with Low Leakage. <i>Chemistry - A European Journal</i> , 2017, 23, 6757-6762.	1.7	12
31	Bioinspired, nanoscale approaches in contemporary bioanalytics (Review). <i>Biointerphases</i> , 2018, 13, 040801.	0.6	12
32	Effect of powder metallurgy synthesis parameters for pure aluminium on resultant mechanical properties. <i>International Journal of Material Forming</i> , 2019, 12, 79-87.	0.9	11
33	Effects of Lipid Tethering in Extremophile-Inspired Membranes on H <sup>+</sup> /OH <sup>-</sup> Flux at Room Temperature. <i>Biophysical Journal</i> , 2016, 110, 2430-2440.	0.2	10
34	Effects of off-axis translocation through nanopores on the determination of shape and volume estimates for individual particles. <i>Nanotechnology</i> , 2022, 33, 275501.	1.3	9
35	Nanopore Recordings to Quantify Activity-Related Properties of Proteins. , 2011, , 203-225.		4
36	Computational Approach to Track Beats in Improvisational Music Performance. , 2021, , .		0