

# Ulrich F Keyser

## List of Publications by Year in descending order

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Version: 2024-02-01

213  
papers

12,344  
citations

23567

58  
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30922

102  
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236  
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236  
docs citations

236  
times ranked

10954  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Surfactant Enables Efficient Membrane Spanning by Non-Aggregating DNA-Based Ion Channels. <i>Molecules</i> , 2022, 27, 578.	3.8	8
2	Nanofluidic Traps by Two-Photon Fabrication for Extended Detection of Single Macromolecules and Colloids in Solution. <i>ACS Applied Nano Materials</i> , 2022, 5, 1995-2005.	5.0	3
3	Sequential assembly and separation of synthetic cell models using microfluidics. <i>Biophysical Journal</i> , 2022, 121, 406a.	0.5	0
4	An ultrasensitive microfluidic approach reveals correlations between the physico-chemical and biological activity of experimental peptide antibiotics. <i>Scientific Reports</i> , 2022, 12, 4005.	3.3	9
5	Lifetime of glass nanopores in a PDMS chip for single-molecule sensing. <i>IScience</i> , 2022, 25, 104191.	4.1	7
6	Deoxyribonucleic Acid Encoded and Size-Defined $\pi$ -Stacking of Perylene Diimides. <i>Journal of the American Chemical Society</i> , 2022, 144, 368-376.	13.7	15
7	3D flow field measurements outside nanopores. <i>Review of Scientific Instruments</i> , 2022, 93, 054106.	1.3	0
8	Quantifying proton-induced membrane polarization in single biomimetic giant vesicles. <i>Biophysical Journal</i> , 2022, 121, 2223-2232.	0.5	2
9	Split G-Quadruplexes Enhance Nanopore Signals for Simultaneous Identification of Multiple Nucleic Acids. <i>Nano Letters</i> , 2022, 22, 4993-4998.	9.1	12
10	Observing capture with a colloidal model membrane channel. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 344001.	1.8	0
11	Measuring Thousands of Single-Vesicle Leakage Events Reveals the Mode of Action of Antimicrobial Peptides. <i>Analytical Chemistry</i> , 2022, 94, 9530-9539.	6.5	7
12	Dynamics of deterministically positioned single $\sigma$ -bond surface-enhanced Raman scattering from DNA origami assembled in plasmonic nanogaps. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 348-354.	2.5	8
13	Channel-length dependence of particle diffusivity in confinement. <i>Soft Matter</i> , 2021, 17, 5131-5136.	2.7	3
14	Electrical DNA Sequence Mapping Using Oligodeoxynucleotide Labels and Nanopores. <i>ACS Nano</i> , 2021, 15, 2679-2685.	14.6	22
15	Kinetics of Toehold-Mediated DNA Strand Displacement Depend on $Fe^{II}$ Tetrahedron Concentration. <i>Nano Letters</i> , 2021, 21, 1368-1374.	9.1	16
16	DNA Structural Barcode Copying and Random Access. <i>Small Structures</i> , 2021, 2, 2000144.	12.0	16
17	Ionic and molecular transport in aqueous solution through 2D and layered nanoporous membranes. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 183002.	2.8	4
18	Switching Cytolytic Nanopores into Antimicrobial Fractal Ruptures by a Single Side Chain Mutation. <i>ACS Nano</i> , 2021, 15, 9679-9689.	14.6	17

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19	Cations Regulate Membrane Attachment and Functionality of DNA Nanostructures. <i>Journal of the American Chemical Society</i> , 2021, 143, 7358-7367.	13.7	44
20	Image Encoding Using Multi- $\mu$ m Level DNA Barcodes with Nanopore Readout. <i>Small</i> , 2021, 17, e2100711.	10.0	32
21	Dynamics of driven polymer transport through a nanopore. <i>Nature Physics</i> , 2021, 17, 1043-1049.	16.7	40
22	Experimental Measurement of Relative Path Probabilities and Stochastic Actions. <i>Physical Review X</i> , 2021, 11, .	8.9	5
23	Standardizing characterization of membrane active peptides with microfluidics. <i>Biomicrofluidics</i> , 2021, 15, 041301.	2.4	7
24	Current Fluctuations in Nanopores Reveal the Polymer-Wall Adsorption Potential. <i>Physical Review Letters</i> , 2021, 127, 137801.	7.8	10
25	Fell4L4 tetrahedron binds and aggregates DNA G-quadruplexes. <i>Chemical Science</i> , 2021, 12, 14564-14569.	7.4	7
26	DNA Origami Voltage Sensors for Transmembrane Potentials with Single-Molecule Sensitivity. <i>Nano Letters</i> , 2021, 21, 8634-8641.	9.1	22
27	Design and Assembly of Membrane-Spanning DNA Nanopores. <i>Methods in Molecular Biology</i> , 2021, 2186, 33-48.	0.9	1
28	Membrane Activity of a DNA-Based Ion Channel Depends on the Stability of Its Double-Stranded Structure. <i>Nano Letters</i> , 2021, 21, 9789-9796.	9.1	5
29	A Microfluidic Platform for Sequential Assembly and Separation of Synthetic Cell Models. <i>ACS Synthetic Biology</i> , 2021, 10, 3105-3116.	3.8	13
30	Toward single-molecule proteomics. <i>Science</i> , 2021, 374, 1443-1444.	12.6	7
31	Conformational Control in Main Group Phosphazane Anion Receptors and Transporters. <i>Journal of the American Chemical Society</i> , 2020, 142, 1029-1037.	13.7	19
32	Tunable Anion-Selective Transport through Monolayer Graphene and Hexagonal Boron Nitride. <i>ACS Nano</i> , 2020, 14, 2729-2738.	14.6	36
33	Optimizing Brownian escape rates by potential shaping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1383-1388.	7.1	36
34	Noise properties of rectifying and non-rectifying nanopores. <i>Nanotechnology</i> , 2020, 31, 10LT01.	2.6	6
35	Direct detection of molecular intermediates from first-passage times. <i>Science Advances</i> , 2020, 6, eaaz4642.	10.3	26
36	Characterization of lipid composition and diffusivity in OLA generated vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183359.	2.6	22

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37	Tailoring Interleaflet Lipid Transfer with a DNA-based Synthetic Enzyme. <i>Nano Letters</i> , 2020, 20, 4306-4311.	9.1	13
38	Nanopore-Based DNA Hard Drives for Rewritable and Secure Data Storage. <i>Nano Letters</i> , 2020, 20, 3754-3760.	9.1	88
39	Single-cell microfluidics facilitates the rapid quantification of antibiotic accumulation in Gram-negative bacteria. <i>Lab on A Chip</i> , 2020, 20, 2765-2775.	6.0	57
40	Aerosol-jet printing facilitates the rapid prototyping of microfluidic devices with versatile geometries and precise channel functionalization. <i>Applied Materials Today</i> , 2020, 19, 100618.	4.3	22
41	Digital Sensing and Molecular Computation by an Enzyme-Free DNA Circuit. <i>ACS Nano</i> , 2020, 14, 5763-5771.	14.6	48
42	Current Enhancement in Solid-State Nanopores Depends on Three-Dimensional DNA Structure. <i>Nano Letters</i> , 2019, 19, 5661-5666.	9.1	33
43	Fe <sup>II</sup> <sub>4</sub> L <sub>4</sub> Tetrahedron Binds to Nonpaired DNA Bases. <i>Journal of the American Chemical Society</i> , 2019, 141, 11358-11362.	13.7	36
44	Multiplexed DNA Identification Using Site Specific dCas9 Barcodes and Nanopore Sensing. <i>ACS Sensors</i> , 2019, 4, 2065-2072.	7.8	50
45	Nonlinear Electrophoresis of Highly Charged Nonpolarizable Particles. <i>Physical Review Letters</i> , 2019, 123, 014502.	7.8	38
46	Controlling aggregation of cholesterol-modified DNA nanostructures. <i>Nucleic Acids Research</i> , 2019, 47, 11441-11451.	14.5	60
47	All-Optical Detection of Neuronal Membrane Depolarization in Live Cells Using Colloidal Quantum Dots. <i>Nano Letters</i> , 2019, 19, 8539-8549.	9.1	27
48	Scalable integration of nano-, and microfluidics with hybrid two-photon lithography. <i>Microsystems and Nanoengineering</i> , 2019, 5, 40.	7.0	45
49	Cation dependent electroosmotic flow in glass nanopores. <i>Applied Physics Letters</i> , 2019, 115, 113702.	3.3	11
50	Monitoring G-Quadruplex Formation with DNA Carriers and Solid-State Nanopores. <i>Nano Letters</i> , 2019, 19, 7996-8001.	9.1	20
51	A microfluidic platform for the characterisation of membrane active antimicrobials. <i>Lab on A Chip</i> , 2019, 19, 837-844.	6.0	46
52	Density-Dependent Speed-up of Particle Transport in Channels. <i>Physical Review Letters</i> , 2019, 122, 214501.	7.8	15
53	Tailoring the Binding Properties of Phosphazane Anion Receptors and Transporters. <i>Journal of the American Chemical Society</i> , 2019, 141, 8807-8815.	13.7	24
54	An Integrated Microfluidic Platform for Quantifying Drug Permeation across Biomimetic Vesicle Membranes. <i>Molecular Pharmaceutics</i> , 2019, 16, 2494-2501.	4.6	36

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55	Quantum electrodynamics at room temperature coupling a single vibrating molecule with a plasmonic nanocavity. <i>Nature Communications</i> , 2019, 10, 1049.	12.8	114
56	Indole Pulse Signalling Regulates the Cytoplasmic pH of <i>E. coli</i> in a Memory-Like Manner. <i>Scientific Reports</i> , 2019, 9, 3868.	3.3	33
57	Pushing the resolution of dCas9 barcodes for multiplexed DNA identification with nanopore sensors. , 2019, , .		1
58	Digital Data Storage Using DNA Nanostructures and Solid-State Nanopores. <i>Nano Letters</i> , 2019, 19, 1210-1215.	9.1	123
59	Experimental evidence of symmetry breaking of transition-path times. <i>Nature Communications</i> , 2019, 10, 55.	12.8	37
60	Specific Biosensing Using DNA Aptamers and Nanopores. <i>Advanced Functional Materials</i> , 2019, 29, 1807555.	14.9	40
61	DNA Nanotechnology for Building Sensors, Nanopores and Ion-Channels. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1174, 331-370.	1.6	6
62	Thermo-responsive Actuation of a DNA Origami Flexor. <i>Advanced Functional Materials</i> , 2018, 28, 1706410.	14.9	71
63	The Crucial Role of Charge in Thermoresponsive Polymer-Assisted Reversible Dis/Assembly of Gold Nanoparticles. <i>Advanced Optical Materials</i> , 2018, 6, 1701270.	7.3	26
64	Optical Voltage Sensing Using DNA Origami. <i>Nano Letters</i> , 2018, 18, 1962-1971.	9.1	43
65	Suppressed Quenching and Strong-Coupling of Purcell-Enhanced Single-Molecule Emission in Plasmonic Nanocavities. <i>ACS Photonics</i> , 2018, 5, 186-191.	6.6	137
66	Mapping Nanoscale Hotspots with Single-Molecule Emitters Assembled into Plasmonic Nanocavities Using DNA Origami. <i>Nano Letters</i> , 2018, 18, 405-411.	9.1	126
67	QuipuNet: Convolutional Neural Network for Single-Molecule Nanopore Sensing. <i>Nano Letters</i> , 2018, 18, 4040-4045.	9.1	55
68	Combining Affinity Selection and Specific Ion Mobility for Microchip Protein Sensing. <i>Analytical Chemistry</i> , 2018, 90, 10302-10310.	6.5	16
69	Promoting single-file DNA translocations through nanopores using electro-osmotic flow. <i>Journal of Chemical Physics</i> , 2018, 149, 163311.	3.0	32
70	A synthetic enzyme built from DNA flips 107 lipids per second in biological membranes. <i>Nature Communications</i> , 2018, 9, 2426.	12.8	101
71	A microfluidic device for characterizing nuclear deformations. <i>Lab on A Chip</i> , 2017, 17, 805-813.	6.0	33
72	Direction- and Salt-Dependent Ionic Current Signatures for DNA Sensing with Asymmetric Nanopores. <i>Biophysical Journal</i> , 2017, 112, 674-682.	0.5	39

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73	Extrinsic Cation Selectivity of 2D Membranes. ACS Nano, 2017, 11, 1340-1346.	14.6	105
74	Single molecule based SNP detection using designed DNA carriers and solid-state nanopores. Chemical Communications, 2017, 53, 436-439.	4.1	65
75	Particle transport across a channel via an oscillating potential. Physical Review E, 2017, 96, 052401.	2.1	4
76	Blockable Zn <sub>10</sub> L <sub>15</sub> Ion Channels through Subcomponent Self-Assembly. Angewandte Chemie - International Edition, 2017, 56, 15388-15392.	13.8	73
77	Ionic Current-Based Mapping of Short Sequence Motifs in Single DNA Molecules Using Solid-State Nanopores. Nano Letters, 2017, 17, 5199-5205.	9.1	56
78	Asymmetric dynamics of DNA entering and exiting a strongly confining nanopore. Nature Communications, 2017, 8, 380.	12.8	59
79	Blockable Zn <sub>10</sub> L <sub>15</sub> Ion Channels through Subcomponent Self-Assembly. Angewandte Chemie, 2017, 129, 15590-15594.	2.0	17
80	Controlling the Reversible Assembly of Liposomes through a Multistimuli Responsive Anchored DNA. Nano Letters, 2016, 16, 4462-4466.	9.1	39
81	Gap-Dependent Coupling of Au Nanoparticle Heterodimers Using DNA Origami-Based Self-Assembly. ACS Photonics, 2016, 3, 1589-1595.	6.6	75
82	From Ion-Channels to Porins: Engineering DNA-Based Synthetic Counterparts. Biophysical Journal, 2016, 110, 351a.	0.5	0
83	DNA Nanostructures for Single Molecule Protein Sensing with Nanopores. Biophysical Journal, 2016, 110, 654a.	0.5	0
84	Quantifying Protein Concentration using Designed DNA Carriers and Solid-State Nanopores. Biophysical Journal, 2016, 110, 334a.	0.5	1
85	Digitally encoded DNA nanostructures for multiplexed, single-molecule protein sensing with nanopores. Nature Nanotechnology, 2016, 11, 645-651.	31.5	263
86	Quantifying Nanomolar Protein Concentrations Using Designed DNA Carriers and Solid-State Nanopores. Nano Letters, 2016, 16, 3557-3562.	9.1	97
87	Selective Trapping of DNA Using Glass Microcapillaries. Langmuir, 2016, 32, 8525-8532.	3.5	12
88	Nondeterministic self-assembly with asymmetric interactions. Physical Review E, 2016, 94, 022404.	2.1	4
89	Large-Conductance Transmembrane Porin Made from DNA Origami. ACS Nano, 2016, 10, 8207-8214.	14.6	171
90	Translocation frequency of double-stranded DNA through a solid-state nanopore. Physical Review E, 2016, 93, 022401.	2.1	75

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91	Direct Optofluidic Measurement of the Lipid Permeability of Fluoroquinolones. <i>Scientific Reports</i> , 2016, 6, 32824.	3.3	34
92	Ion Channels Made from a Single Membrane-Spanning DNA Duplex. <i>Nano Letters</i> , 2016, 16, 4665-4669.	9.1	124
93	DNA Origami for Nanopores: Design, Developments and Challenges. <i>Biophysical Journal</i> , 2016, 110, 32a-33a.	0.5	0
94	Enhancing nanopore sensing with DNA nanotechnology. <i>Nature Nanotechnology</i> , 2016, 11, 106-108.	31.5	66
95	Programming Light-Harvesting Efficiency Using DNA Origami. <i>Nano Letters</i> , 2016, 16, 2369-2374.	9.1	100
96	Dependence of norfloxacin diffusion across bilayers on lipid composition. <i>Soft Matter</i> , 2016, 12, 2135-2144.	2.7	25
97	Nondecaying Hydrodynamic Interactions along Narrow Channels. <i>Physical Review Letters</i> , 2015, 115, 038301.	7.8	47
98	Measuring the proton selectivity of graphene membranes. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	56
99	Nanopore analysis of amyloid fibrils formed by lysozyme aggregation. <i>Analyst, The</i> , 2015, 140, 4882-4886.	3.5	27
100	Protein reconstitution into freestanding planar lipid membranes for electrophysiological characterization. <i>Nature Protocols</i> , 2015, 10, 188-198.	12.0	134
101	Electroosmotic Flow Reversal Outside Glass Nanopores. <i>Nano Letters</i> , 2015, 15, 695-702.	9.1	49
102	Ionic Conductivity, Structural Deformation, and Programmable Anisotropy of DNA Origami in Electric Field. <i>ACS Nano</i> , 2015, 9, 1420-1433.	14.6	86
103	Free-standing graphene membranes on glass nanopores for ionic current measurements. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	45
104	Real-time deformability cytometry: on-the-fly cell mechanical phenotyping. <i>Nature Methods</i> , 2015, 12, 199-202.	19.0	580
105	Specific Protein Detection Using Designed DNA Carriers and Nanopores. <i>Journal of the American Chemical Society</i> , 2015, 137, 2035-2041.	13.7	167
106	Camera-based three-dimensional real-time particle tracking at kHz rates and Å..ngstrÅm accuracy. <i>Nature Communications</i> , 2015, 6, 5885.	12.8	109
107	Electroosmotic flow rectification in conical nanopores. <i>Nanotechnology</i> , 2015, 26, 275202.	2.6	54
108	DNA-Tile Structures Induce Ionic Currents through Lipid Membranes. <i>Nano Letters</i> , 2015, 15, 3134-3138.	9.1	125

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109	Quantification of Fluoroquinolone Uptake through the Outer Membrane Channel OmpF of <i>Escherichia coli</i> . <i>Journal of the American Chemical Society</i> , 2015, 137, 13836-13843.	13.7	70
110	DNA origami based assembly of gold nanoparticle dimers for SERS detection. <i>Proceedings of SPIE</i> , 2015, , ,	0.8	1
111	Bilayer-Spanning DNA Nanopores with Voltage-Switching between Open and Closed State. <i>ACS Nano</i> , 2015, 9, 1117-1126.	14.6	118
112	The Indole Pulse: A New Perspective on Indole Signalling in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2014, 9, e93168.	2.5	66
113	Bacterial Metabolite Indole Modulates Incretin Secretion from Intestinal Enteroendocrine L Cells. <i>Cell Reports</i> , 2014, 9, 1202-1208.	6.4	368
114	Local characterization of hindered Brownian motion by using digital video microscopy and 3D particle tracking. <i>Review of Scientific Instruments</i> , 2014, 85, 023708.	1.3	30
115	Diffusion coefficients and particle transport in synthetic membrane channels. <i>European Physical Journal: Special Topics</i> , 2014, 223, 3145-3163.	2.6	13
116	Voltage-Dependent Properties of DNA Origami Nanopores. <i>Nano Letters</i> , 2014, 14, 1270-1274.	9.1	58
117	Auxetic nuclei in embryonic stem cells exiting pluripotency. <i>Nature Materials</i> , 2014, 13, 638-644.	27.5	145
118	DNA origami based assembly of gold nanoparticle dimers for surface-enhanced Raman scattering. <i>Nature Communications</i> , 2014, 5, 3448.	12.8	377
119	Influence of internal viscoelastic modes on the Brownian motion of a $\hat{\mu}$ -DNA coated colloid. <i>Soft Matter</i> , 2014, 10, 1738.	2.7	1
120	Measurement of the Position-Dependent Electrophoretic Force on DNA in a Glass Nanocapillary. <i>Nano Letters</i> , 2014, 14, 6606-6613.	9.1	25
121	Bacterial nucleoid structure probed by active drag and resistive pulse sensing. <i>Integrative Biology (United Kingdom)</i> , 2014, 6, 184-191.	1.3	9
122	DNA origami nanopores: developments, challenges and perspectives. <i>Nanoscale</i> , 2014, 6, 14121-14132.	5.6	63
123	A label-free microfluidic assay to quantitatively study antibiotic diffusion through lipid membranes. <i>Lab on A Chip</i> , 2014, 14, 2303-2308.	6.0	36
124	Anisotropic diffusion of spherical particles in closely confining microchannels. <i>Physical Review E</i> , 2014, 89, 062305.	2.1	52
125	Giant Unilamellar Vesicles and Suspended Nanobilayers as Model Systems for Biophysical Research. <i>Behavior Research Methods</i> , 2014, , 67-89.	4.0	0
126	Channel-Facilitated Diffusion Boosted by Particle Binding at the Channel Entrance. <i>Physical Review Letters</i> , 2014, 113, 048102.	7.8	38



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127	Membrane-Spanning DNA Nanopores. Biomimetic Chemical Structures for Single-Molecule Research and Nanotechnology. <i>Biophysical Journal</i> , 2014, 106, 632a.	0.5	0
128	Selective transport control on molecular velcro made from intrinsically disordered proteins. <i>Nature Nanotechnology</i> , 2014, 9, 525-530.	31.5	42
129	Nanopores formed by DNA origami: A review. <i>FEBS Letters</i> , 2014, 588, 3564-3570.	2.8	72
130	DNA Interactions in Crowded Nanopores. <i>Nano Letters</i> , 2013, 13, 2798-2802.	9.1	36
131	Bacterial Signal Indole Modifies the Physicochemical Properties of Lipid Membranes. <i>Biophysical Journal</i> , 2013, 104, 251a.	0.5	0
132	Electrophoretic Forces on Multiple DNA Molecules in a Nanopore. <i>Biophysical Journal</i> , 2013, 104, 517a.	0.5	0
133	Lipid-Bilayer-Spanning DNA Nanopores with a Bifunctional Porphyrin Anchor. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 12069-12072.	13.8	190
134	DNA origami nanopores: an emerging tool in biomedicine. <i>Nanomedicine</i> , 2013, 8, 1551-1554.	3.3	16
135	Nanotubes Complexed with DNA and Proteins for Resistive-Pulse Sensing. <i>ACS Nano</i> , 2013, 7, 8857-8869.	14.6	30
136	A Landau-Squire Nanojet. <i>Nano Letters</i> , 2013, 13, 5141-5146.	9.1	40
137	DNA Translocation. , 2013, , 31-58.		3
138	Lipid-coated nanocapillaries for DNA sensing. <i>Analyst, The</i> , 2013, 138, 104-106.	3.5	31
139	The Effect of Bacterial Signal Indole on the Electrical Properties of Lipid Membranes. <i>ChemPhysChem</i> , 2013, 14, 417-423.	2.1	34
140	DNA Origami Nanopores. <i>Biophysical Journal</i> , 2013, 104, 517a.	0.5	0
141	Single Protein Molecule Detection by Glass Nanopores. <i>ACS Nano</i> , 2013, 7, 4129-4134.	14.6	228
142	Multiplexed ionic current sensing with glass nanopores. <i>Lab on A Chip</i> , 2013, 13, 1859.	6.0	63
143	DNA Origami Nanopores for Controlling DNA Translocation. <i>ACS Nano</i> , 2013, 7, 6024-6030.	14.6	118
144	Lipid Nanobilayers to Host Biological Nanopores for DNA Translocations. <i>Langmuir</i> , 2013, 29, 355-364.	3.5	24

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145	Lipid Bilayer Spanning DNA Nanopores with a Bifunctional Porphyrin Anchor. <i>Angewandte Chemie</i> , 2013, 125, 12291-12294.	2.0	28
146	Investigating Membrane Transport with Optical Tweezers. , 2013, , .		0
147	Dynamic single-molecule force spectroscopy using optical tweezers and nanopores. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
148	Rapid internal contraction boosts DNA friction. <i>Nature Communications</i> , 2013, 4, 1780.	12.8	22
149	Optimizing Diffusive Transport Through a Synthetic Membrane Channel. <i>Advanced Materials</i> , 2013, 25, 844-849.	21.0	40
150	Studying DNA translocation in nanocapillaries using single molecule fluorescence. <i>Applied Physics Letters</i> , 2012, 101, 223704.	3.3	41
151	Perpendicular coupling to in-plane photonics using arc waveguides fabricated via two-photon polymerization. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	18
152	Viscoelastic Properties of Differentiating Blood Cells Are Fate- and Function-Dependent. <i>PLoS ONE</i> , 2012, 7, e45237.	2.5	162
153	Colloid Flow Control in Microchannels and Detection by Laser Scattering. , 2012, , 45-49.		1
154	Voltage-driven transport of ions and DNA through nanocapillaries. <i>Electrophoresis</i> , 2012, 33, 3480-3487.	2.4	54
155	Nanopores – mission accomplished and what next?. <i>Physics of Life Reviews</i> , 2012, 9, 164-166.	2.8	3
156	Microfluidics Reveals a Flow-Induced Large-Scale Polymorphism of Protein Aggregates. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2803-2807.	4.6	40
157	Indole prevents <i>Escherichia coli</i> cell division by modulating membrane potential. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1590-1594.	2.6	142
158	Optical Tweezers for Mechanical Control Over DNA in a Nanopore. <i>Methods in Molecular Biology</i> , 2012, 870, 115-134.	0.9	6
159	Analyzing Single DNA Molecules by Nanopore Translocation. <i>Methods in Molecular Biology</i> , 2012, 870, 135-145.	0.9	5
160	<i>Escherichia Coli</i> Regulates Cell Division by Modulating Membrane Potential. <i>Biophysical Journal</i> , 2012, 102, 714a-715a.	0.5	0
161	DNA Origami Nanopores. <i>Nano Letters</i> , 2012, 12, 512-517.	9.1	267
162	Parallel sub-micrometre channels with different dimensions for laser scattering detection. <i>Lab on A Chip</i> , 2011, 11, 3365.	6.0	29

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163	Micro-rheology on (polymer-grafted) colloids using optical tweezers. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 184114.	1.8	17
164	Nanocapillaries and optical tweezers for studies on DNA in confinement. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
165	Note: Direct force and ionic-current measurements on DNA in a nanocapillary. <i>Review of Scientific Instruments</i> , 2011, 82, 086102.	1.3	17
166	Simple Reconstitution of Protein Pores in Nano Lipid Bilayers. <i>Nano Letters</i> , 2011, 11, 3334-3340.	9.1	39
167	Self-aware particles. <i>Nature</i> , 2011, 478, 45-46.	27.8	5
168	Single Molecule Studies of Nuclear Transport. <i>Biophysical Journal</i> , 2011, 100, 249a.	0.5	0
169	DNA condensation by TmHU studied by optical tweezers, AFM and molecular dynamics simulations. <i>Journal of Biological Physics</i> , 2011, 37, 117-131.	1.5	7
170	Indole Transport across Escherichia coli Membranes. <i>Journal of Bacteriology</i> , 2011, 193, 1793-1798.	2.2	84
171	Controlling molecular transport through nanopores. <i>Journal of the Royal Society Interface</i> , 2011, 8, 1369-1378.	3.4	157
172	High-speed video-based tracking of optically trapped colloids. <i>Journal of Optics (United Kingdom)</i> , 2011, 13, 044011.	2.2	24
173	Probing DNA with micro- and nanocapillaries and optical tweezers. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 454113.	1.8	31
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