Ulrich F Keyser

List of Publications by Year in descending order

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	23500	30848
12,344	58	102
citations	h-index	g-index
	0.0.6	1005/
236	236	10954
docs citations	times ranked	citing authors
	12,344 citations 236 docs citations	12,344 58 citations h-index 236 236 docs citations 236 times ranked

LIDICH F KEVSED

#	Article	IF	CITATIONS
1	Salt Dependence of Ion Transport and DNA Translocation through Solid-State Nanopores. Nano Letters, 2006, 6, 89-95.	4.5	735
2	Direct force measurements on DNA in a solid-state nanopore. Nature Physics, 2006, 2, 473-477.	6.5	587
3	Real-time deformability cytometry: on-the-fly cell mechanical phenotyping. Nature Methods, 2015, 12, 199-202.	9.0	580
4	DNA origami based assembly of gold nanoparticle dimers for surface-enhanced Raman scattering. Nature Communications, 2014, 5, 3448.	5.8	377
5	Bacterial Metabolite Indole Modulates Incretin Secretion from Intestinal Enteroendocrine L Cells. Cell Reports, 2014, 9, 1202-1208.	2.9	368
6	Origin of the electrophoretic force on DNA in solid-state nanopores. Nature Physics, 2009, 5, 347-351.	6.5	327
7	Noise in solid-state nanopores. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 417-421.	3.3	315
8	DNA Origami Nanopores. Nano Letters, 2012, 12, 512-517.	4.5	267
9	Digitally encoded DNA nanostructures for multiplexed, single-molecule protein sensing with nanopores. Nature Nanotechnology, 2016, 11, 645-651.	15.6	263
10	Single Protein Molecule Detection by Glass Nanopores. ACS Nano, 2013, 7, 4129-4134.	7.3	228
11	Lipidâ€Bilayerâ€Spanning DNA Nanopores with a Bifunctional Porphyrin Anchor. Angewandte Chemie - International Edition, 2013, 52, 12069-12072.	7.2	190
12	Detecting DNA Folding with Nanocapillaries. Nano Letters, 2010, 10, 2493-2497.	4.5	184
13	Large-Conductance Transmembrane Porin Made from DNA Origami. ACS Nano, 2016, 10, 8207-8214.	7.3	171
14	Specific Protein Detection Using Designed DNA Carriers and Nanopores. Journal of the American Chemical Society, 2015, 137, 2035-2041.	6.6	167
15	Viscoelastic Properties of Differentiating Blood Cells Are Fate- and Function-Dependent. PLoS ONE, 2012, 7, e45237.	1.1	162
16	Controlling molecular transport through nanopores. Journal of the Royal Society Interface, 2011, 8, 1369-1378.	1.5	157
17	Auxetic nuclei in embryonic stem cells exiting pluripotency. Nature Materials, 2014, 13, 638-644.	13.3	145
18	Indole prevents Escherichia coli cell division by modulating membrane potential. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 1590-1594.	1.4	142

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19	Suppressed Quenching and Strong-Coupling of Purcell-Enhanced Single-Molecule Emission in Plasmonic Nanocavities. ACS Photonics, 2018, 5, 186-191.	3.2	137
20	Protein reconstitution into freestanding planar lipid membranes for electrophysiological characterization. Nature Protocols, 2015, 10, 188-198.	5.5	134
21	Kondo Effect in a Few-Electron Quantum Ring. Physical Review Letters, 2003, 90, 196601.	2.9	130
22	Optical tweezers for force measurements on DNA in nanopores. Review of Scientific Instruments, 2006, 77, 105105.	0.6	128
23	Mapping Nanoscale Hotspots with Single-Molecule Emitters Assembled into Plasmonic Nanocavities Using DNA Origami. Nano Letters, 2018, 18, 405-411.	4.5	126
24	DNA-Tile Structures Induce Ionic Currents through Lipid Membranes. Nano Letters, 2015, 15, 3134-3138.	4.5	125
25	Ion Channels Made from a Single Membrane-Spanning DNA Duplex. Nano Letters, 2016, 16, 4665-4669.	4.5	124
26	Digital Data Storage Using DNA Nanostructures and Solid-State Nanopores. Nano Letters, 2019, 19, 1210-1215.	4.5	123
27	Nanobubbles in Solid-State Nanopores. Physical Review Letters, 2006, 97, 088101.	2.9	121
28	DNA Origami Nanopores for Controlling DNA Translocation. ACS Nano, 2013, 7, 6024-6030.	7.3	118
29	Bilayer-Spanning DNA Nanopores with Voltage-Switching between Open and Closed State. ACS Nano, 2015, 9, 1117-1126.	7.3	118
30	Quantum electrodynamics at room temperature coupling a single vibrating molecule with a plasmonic nanocavity. Nature Communications, 2019, 10, 1049.	5.8	114
31	Camera-based three-dimensional real-time particle tracking at kHz rates and Ångström accuracy. Nature Communications, 2015, 6, 5885.	5.8	109
32	Extrinsic Cation Selectivity of 2D Membranes. ACS Nano, 2017, 11, 1340-1346.	7.3	105
33	A synthetic enzyme built from DNA flips 107 lipids per second in biological membranes. Nature Communications, 2018, 9, 2426.	5.8	101
34	Programming Light-Harvesting Efficiency Using DNA Origami. Nano Letters, 2016, 16, 2369-2374.	4.5	100
35	Quantifying Nanomolar Protein Concentrations Using Designed DNA Carriers and Solid-State Nanopores. Nano Letters, 2016, 16, 3557-3562.	4.5	97
36	Forces between single pairs of charged colloids in aqueous salt solutions. Physical Review E, 2007, 76, 031403.	0.8	89

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37	Nanopore-Based DNA Hard Drives for Rewritable and Secure Data Storage. Nano Letters, 2020, 20, 3754-3760.	4.5	88
38	Ionic Conductivity, Structural Deformation, and Programmable Anisotropy of DNA Origami in Electric Field. ACS Nano, 2015, 9, 1420-1433.	7.3	86
39	Indole Transport across Escherichia coli Membranes. Journal of Bacteriology, 2011, 193, 1793-1798.	1.0	84
40	AharonovÂBohm oscillations of a tuneable quantum ring. Semiconductor Science and Technology, 2002, 17, L22-L24.	1.0	82
41	Fabrication of a single-electron transistor by current-controlled local oxidation of a two-dimensional electron system. Applied Physics Letters, 2000, 76, 457-459.	1.5	80
42	Nanopore Tomography of a Laser Focus. Nano Letters, 2005, 5, 2253-2256.	4.5	78
43	Real-time particle tracking at 10,000 fps using optical fiber illumination. Optics Express, 2010, 18, 22722.	1.7	78
44	Gap-Dependent Coupling of Ag–Au Nanoparticle Heterodimers Using DNA Origami-Based Self-Assembly. ACS Photonics, 2016, 3, 1589-1595.	3.2	75
45	Translocation frequency of double-stranded DNA through a solid-state nanopore. Physical Review E, 2016, 93, 022401.	0.8	75
46	Blockable Zn ₁₀ L ₁₅ Ion Channels through Subcomponent Selfâ€Assembly. Angewandte Chemie - International Edition, 2017, 56, 15388-15392.	7.2	73
47	Phase-State Dependent Current Fluctuations in Pure Lipid Membranes. Biophysical Journal, 2009, 96, 4592-4597.	0.2	72
48	Nanopores formed by DNA origami: A review. FEBS Letters, 2014, 588, 3564-3570.	1.3	72
49	Thermoâ€Responsive Actuation of a DNA Origami Flexor. Advanced Functional Materials, 2018, 28, 1706410.	7.8	71
50	Quantification of Fluoroquinolone Uptake through the Outer Membrane Channel OmpF of <i>Escherichia coli</i> . Journal of the American Chemical Society, 2015, 137, 13836-13843.	6.6	70
51	Tether forces in DNAelectrophoresis. Chemical Society Reviews, 2010, 39, 939-947.	18.7	67
52	The Indole Pulse: A New Perspective on Indole Signalling in Escherichia coli. PLoS ONE, 2014, 9, e93168.	1.1	66
53	Enhancing nanopore sensing with DNA nanotechnology. Nature Nanotechnology, 2016, 11, 106-108.	15.6	66
54	Single molecule based SNP detection using designed DNA carriers and solid-state nanopores. Chemical Communications, 2017, 53, 436-439.	2.2	65

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55	Optical tweezers with 2.5â€,kHz bandwidth video detection for single-colloid electrophoresis. Review of Scientific Instruments, 2008, 79, 023710.	0.6	64
56	Multiplexed ionic current sensing with glass nanopores. Lab on A Chip, 2013, 13, 1859.	3.1	63
57	DNA origami nanopores: developments, challenges and perspectives. Nanoscale, 2014, 6, 14121-14132.	2.8	63
58	Nanomachining of mesoscopic electronic devices using an atomic force microscope. Applied Physics Letters, 1999, 75, 1107-1109.	1.5	62
59	Controlling aggregation of cholesterol-modified DNA nanostructures. Nucleic Acids Research, 2019, 47, 11441-11451.	6.5	60
60	Asymmetric dynamics of DNA entering and exiting a strongly confining nanopore. Nature Communications, 2017, 8, 380.	5.8	59
61	Voltage-Dependent Properties of DNA Origami Nanopores. Nano Letters, 2014, 14, 1270-1274.	4.5	58
62	Single-cell microfluidics facilitates the rapid quantification of antibiotic accumulation in Gram-negative bacteria. Lab on A Chip, 2020, 20, 2765-2775.	3.1	57
63	Measuring the proton selectivity of graphene membranes. Applied Physics Letters, 2015, 107, .	1.5	56
64	lonic Current-Based Mapping of Short Sequence Motifs in Single DNA Molecules Using Solid-State Nanopores. Nano Letters, 2017, 17, 5199-5205.	4.5	56
65	QuipuNet: Convolutional Neural Network for Single-Molecule Nanopore Sensing. Nano Letters, 2018, 18, 4040-4045.	4.5	55
66	Voltageâ€driven transport of ions and <scp>DNA</scp> through nanocapillaries. Electrophoresis, 2012, 33, 3480-3487.	1.3	54
67	Electroosmotic flow rectification in conical nanopores. Nanotechnology, 2015, 26, 275202.	1.3	54
68	Anisotropic diffusion of spherical particles in closely confining microchannels. Physical Review E, 2014, 89, 062305.	0.8	52
69	Multiplexed DNA Identification Using Site Specific dCas9 Barcodes and Nanopore Sensing. ACS Sensors, 2019, 4, 2065-2072.	4.0	50
70	Electroosmotic Flow Reversal Outside Glass Nanopores. Nano Letters, 2015, 15, 695-702.	4.5	49
71	Digital Sensing and Molecular Computation by an Enzyme-Free DNA Circuit. ACS Nano, 2020, 14, 5763-5771.	7.3	48
72	Sensing DNA-coatings of microparticles using micropipettes. Biosensors and Bioelectronics, 2009, 24, 2423-2427.	5.3	47

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73	Nondecaying Hydrodynamic Interactions along Narrow Channels. Physical Review Letters, 2015, 115, 038301.	2.9	47
74	A microfluidic platform for the characterisation of membrane active antimicrobials. Lab on A Chip, 2019, 19, 837-844.	3.1	46
75	Free-standing graphene membranes on glass nanopores for ionic current measurements. Applied Physics Letters, 2015, 106, .	1.5	45
76	Scalable integration of nano-, and microfluidics with hybrid two-photon lithography. Microsystems and Nanoengineering, 2019, 5, 40.	3.4	45
77	Cations Regulate Membrane Attachment and Functionality of DNA Nanostructures. Journal of the American Chemical Society, 2021, 143, 7358-7367.	6.6	44
78	Optical Voltage Sensing Using DNA Origami. Nano Letters, 2018, 18, 1962-1971.	4.5	43
79	Selective transport control on molecular velcro made from intrinsically disordered proteins. Nature Nanotechnology, 2014, 9, 525-530.	15.6	42
80	Studying DNA translocation in nanocapillaries using single molecule fluorescence. Applied Physics Letters, 2012, 101, 223704.	1.5	41
81	Microfluidics Reveals a Flow-Induced Large-Scale Polymorphism of Protein Aggregates. Journal of Physical Chemistry Letters, 2012, 3, 2803-2807.	2.1	40
82	A Landau–Squire Nanojet. Nano Letters, 2013, 13, 5141-5146.	4.5	40
83	Optimizing Diffusive Transport Through a Synthetic Membrane Channel. Advanced Materials, 2013, 25, 844-849.	11.1	40
84	Specific Biosensing Using DNA Aptamers and Nanopores. Advanced Functional Materials, 2019, 29, 1807555.	7.8	40
85	Dynamics of driven polymer transport through a nanopore. Nature Physics, 2021, 17, 1043-1049.	6.5	40
86	Simple Reconstitution of Protein Pores in Nano Lipid Bilayers. Nano Letters, 2011, 11, 3334-3340.	4.5	39
87	Controlling the Reversible Assembly of Liposomes through a Multistimuli Responsive Anchored DNA. Nano Letters, 2016, 16, 4462-4466.	4.5	39
88	Direction- and Salt-Dependent Ionic Current Signatures for DNA Sensing with Asymmetric Nanopores. Biophysical Journal, 2017, 112, 674-682.	0.2	39
89	Channel-Facilitated Diffusion Boosted by Particle Binding at the Channel Entrance. Physical Review Letters, 2014, 113, 048102.	2.9	38
90	Nonlinear Electrophoresis of Highly Charged Nonpolarizable Particles. Physical Review Letters, 2019, 123, 014502.	2.9	38

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91	Experimental evidence of symmetry breaking of transition-path times. Nature Communications, 2019, 10, 55.	5.8	37
92	DNA Interactions in Crowded Nanopores. Nano Letters, 2013, 13, 2798-2802.	4.5	36
93	A label-free microfluidic assay to quantitatively study antibiotic diffusion through lipid membranes. Lab on A Chip, 2014, 14, 2303-2308.	3.1	36
94	Fe ^{II} ₄ L ₄ Tetrahedron Binds to Nonpaired DNA Bases. Journal of the American Chemical Society, 2019, 141, 11358-11362.	6.6	36
95	An Integrated Microfluidic Platform for Quantifying Drug Permeation across Biomimetic Vesicle Membranes. Molecular Pharmaceutics, 2019, 16, 2494-2501.	2.3	36
96	Tunable Anion-Selective Transport through Monolayer Graphene and Hexagonal Boron Nitride. ACS Nano, 2020, 14, 2729-2738.	7.3	36
97	Optimizing Brownian escape rates by potential shaping. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 1383-1388.	3.3	36
98	Controlled mechanical AFM machining of two-dimensional electron systems: fabrication of a single-electron transistor. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 860-863.	1.3	35
99	The Effect of Bacterial Signal Indole on the Electrical Properties of Lipid Membranes. ChemPhysChem, 2013, 14, 417-423.	1.0	34
100	Direct Optofluidic Measurement of the Lipid Permeability of Fluoroquinolones. Scientific Reports, 2016, 6, 32824.	1.6	34
101	A microfluidic device for characterizing nuclear deformations. Lab on A Chip, 2017, 17, 805-813.	3.1	33
102	Current Enhancement in Solid-State Nanopores Depends on Three-Dimensional DNA Structure. Nano Letters, 2019, 19, 5661-5666.	4.5	33
103	Indole Pulse Signalling Regulates the Cytoplasmic pH of E. coli in a Memory-Like Manner. Scientific Reports, 2019, 9, 3868.	1.6	33
104	Single colloid electrophoresis. Journal of Colloid and Interface Science, 2009, 337, 260-264.	5.0	32
105	Promoting single-file DNA translocations through nanopores using electro-osmotic flow. Journal of Chemical Physics, 2018, 149, 163311.	1.2	32
106	Image Encoding Using Multi‣evel DNA Barcodes with Nanopore Readout. Small, 2021, 17, e2100711.	5.2	32
107	Probing DNA with micro- and nanocapillaries and optical tweezers. Journal of Physics Condensed Matter, 2010, 22, 454113.	0.7	31
108	Lipid-coated nanocapillaries for DNA sensing. Analyst, The, 2013, 138, 104-106.	1.7	31

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109	Modeling of colloidal transport in capillaries. Journal of Applied Physics, 2009, 105, .	1.1	30
110	Nanotubes Complexed with DNA and Proteins for Resistive-Pulse Sensing. ACS Nano, 2013, 7, 8857-8869.	7.3	30
111	Local characterization of hindered Brownian motion by using digital video microscopy and 3D particle tracking. Review of Scientific Instruments, 2014, 85, 023708.	0.6	30
112	Parallel sub-micrometre channels with different dimensions for laser scattering detection. Lab on A Chip, 2011, 11, 3365.	3.1	29
113	Lipidâ€Bilayerâ€Spanning DNA Nanopores with a Bifunctional Porphyrin Anchor. Angewandte Chemie, 2013, 125, 12291-12294.	1.6	28
114	Nanopore analysis of amyloid fibrils formed by lysozyme aggregation. Analyst, The, 2015, 140, 4882-4886.	1.7	27
115	All-Optical Detection of Neuronal Membrane Depolarization in Live Cells Using Colloidal Quantum Dots. Nano Letters, 2019, 19, 8539-8549.	4.5	27
116	The Crucial Role of Charge in Thermoresponsiveâ€Polymerâ€Assisted Reversible Dis/Assembly of Gold Nanoparticles. Advanced Optical Materials, 2018, 6, 1701270.	3.6	26
117	Direct detection of molecular intermediates from first-passage times. Science Advances, 2020, 6, eaaz4642.	4.7	26
118	Measurement of the Position-Dependent Electrophoretic Force on DNA in a Glass Nanocapillary. Nano Letters, 2014, 14, 6606-6613.	4.5	25
119	Dependence of norfloxacin diffusion across bilayers on lipid composition. Soft Matter, 2016, 12, 2135-2144.	1.2	25
120	Fabrication of quantum point contacts by engraving GaAs/AlGaAs heterostructures with a diamond tip. Applied Physics Letters, 2002, 81, 2023-2025.	1.5	24
121	High-speed video-based tracking of optically trapped colloids. Journal of Optics (United Kingdom), 2011, 13, 044011.	1.0	24
122	Lipid Nanobilayers to Host Biological Nanopores for DNA Translocations. Langmuir, 2013, 29, 355-364.	1.6	24
123	Tailoring the Binding Properties of Phosphazane Anion Receptors and Transporters. Journal of the American Chemical Society, 2019, 141, 8807-8815.	6.6	24
124	Kinetically limited quantum dot formation on AlAs(100) surfaces. Journal of Crystal Growth, 2003, 249, 477-482.	0.7	23
125	Flux-quantum-modulated Kondo conductance in a multielectron quantum dot. Physical Review B, 2002, 66, .	1.1	22
126	Rapid internal contraction boosts DNA friction. Nature Communications, 2013, 4, 1780.	5.8	22

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127	Characterization of lipid composition and diffusivity in OLA generated vesicles. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183359.	1.4	22
128	Aerosol-jet printing facilitates the rapid prototyping of microfluidic devices with versatile geometries and precise channel functionalization. Applied Materials Today, 2020, 19, 100618.	2.3	22
129	Electrical DNA Sequence Mapping Using Oligodeoxynucleotide Labels and Nanopores. ACS Nano, 2021, 15, 2679-2685.	7.3	22
130	DNA Origami Voltage Sensors for Transmembrane Potentials with Single-Molecule Sensitivity. Nano Letters, 2021, 21, 8634-8641.	4.5	22
131	Diamond cantilever with integrated tip for nanomachining. Diamond and Related Materials, 2002, 11, 667-671.	1.8	20
132	Monitoring G-Quadruplex Formation with DNA Carriers and Solid-State Nanopores. Nano Letters, 2019, 19, 7996-8001.	4.5	20
133	Optical tweezers to study single Protein A/Immunoglobulin G interactions at varying conditions. European Biophysics Journal, 2008, 37, 927-934.	1.2	19
134	Conformational Control in Main Group Phosphazane Anion Receptors and Transporters. Journal of the American Chemical Society, 2020, 142, 1029-1037.	6.6	19
135	Spin blockade in capacitively coupled quantum dots. Applied Physics Letters, 2004, 85, 606-608.	1.5	18
136	Perpendicular coupling to in-plane photonics using arc waveguides fabricated via two-photon polymerization. Applied Physics Letters, 2012, 100, .	1.5	18
137	Micro-rheology on (polymer-grafted) colloids using optical tweezers. Journal of Physics Condensed Matter, 2011, 23, 184114.	0.7	17
138	Note: Direct force and ionic-current measurements on DNA in a nanocapillary. Review of Scientific Instruments, 2011, 82, 086102.	0.6	17
139	Blockable Zn ₁₀ L ₁₅ Ion Channels through Subcomponent Selfâ€Assembly. Angewandte Chemie, 2017, 129, 15590-15594.	1.6	17
140	Switching Cytolytic Nanopores into Antimicrobial Fractal Ruptures by a Single Side Chain Mutation. ACS Nano, 2021, 15, 9679-9689.	7.3	17
141	DNA origami nanopores: an emerging tool in biomedicine. Nanomedicine, 2013, 8, 1551-1554.	1.7	16
142	Combining Affinity Selection and Specific Ion Mobility for Microchip Protein Sensing. Analytical Chemistry, 2018, 90, 10302-10310.	3.2	16
143	Kinetics of Toehold-Mediated DNA Strand Displacement Depend on Fe ^{II} ₄ L ₄ Tetrahedron Concentration. Nano Letters, 2021, 21, 1368-1374.	4.5	16
144	DNA Structural Barcode Copying and Random Access. Small Structures, 2021, 2, 2000144.	6.9	16

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145	Combined atomic force microscope and electron-beam lithography used for the fabrication of variable-coupling quantum dots. Applied Physics Letters, 2003, 83, 1163-1165.	1.5	15
146	Density-Dependent Speed-up of Particle Transport in Channels. Physical Review Letters, 2019, 122, 214501.	2.9	15
147	Deoxyribonucleic Acid Encoded and Size-Defined π-Stacking of Perylene Diimides. Journal of the American Chemical Society, 2022, 144, 368-376.	6.6	15
148	Tuning the onset voltage of resonant tunneling through InAs quantum dots by growth parameters. Applied Physics Letters, 2003, 82, 1209-1211.	1.5	14
149	Diffusion coefficients and particle transport in synthetic membrane channels. European Physical Journal: Special Topics, 2014, 223, 3145-3163.	1.2	13
150	Tailoring Interleaflet Lipid Transfer with a DNA-based Synthetic Enzyme. Nano Letters, 2020, 20, 4306-4311.	4.5	13
151	A Microfluidic Platform for Sequential Assembly and Separation of Synthetic Cell Models. ACS Synthetic Biology, 2021, 10, 3105-3116.	1.9	13
152	Influence of the size of self-assembled InAs/AlAs quantum dots on photoluminescence and resonant tunneling. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 761-764.	1.3	12
153	Selective Trapping of DNA Using Glass Microcapillaries. Langmuir, 2016, 32, 8525-8532.	1.6	12
154	Split G-Quadruplexes Enhance Nanopore Signals for Simultaneous Identification of Multiple Nucleic Acids. Nano Letters, 2022, 22, 4993-4998.	4.5	12
155	Cation dependent electroosmotic flow in glass nanopores. Applied Physics Letters, 2019, 115, 113702.	1.5	11
156	Current Fluctuations in Nanopores Reveal the Polymer-Wall Adsorption Potential. Physical Review Letters, 2021, 127, 137801.	2.9	10
157	Inserting and Manipulating DNA in a Nanopore with Optical Tweezers. Methods in Molecular Biology, 2009, 544, 95-112.	0.4	10
158	Bacterial nucleoid structure probed by active drag and resistive pulse sensing. Integrative Biology (United Kingdom), 2014, 6, 184-191.	0.6	9
159	An ultrasensitive microfluidic approach reveals correlations between the physico-chemical and biological activity of experimental peptide antibiotics. Scientific Reports, 2022, 12, 4005.	1.6	9
160	Dynamics of deterministically positioned singleâ€bond surfaceâ€enhanced Raman scattering from DNA origami assembled in plasmonic nanogaps. Journal of Raman Spectroscopy, 2021, 52, 348-354.	1.2	8
161	A Surfactant Enables Efficient Membrane Spanning by Non-Aggregating DNA-Based Ion Channels. Molecules, 2022, 27, 578.	1.7	8
162	Direct fabrication of parallel quantum dots with an atomic force microscope. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 1155-1158.	1.3	7

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163	Kinetics of TmHU binding to DNA as observed by optical tweezers. Microscopy Research and Technique, 2007, 70, 938-943.	1.2	7
164	DNA condensation by TmHU studied by optical tweezers, AFM and molecular dynamics simulations. Journal of Biological Physics, 2011, 37, 117-131.	0.7	7
165	Standardizing characterization of membrane active peptides with microfluidics. Biomicrofluidics, 2021, 15, 041301.	1.2	7
166	Fell4L4 tetrahedron binds and aggregates DNA G-quadruplexes. Chemical Science, 2021, 12, 14564-14569.	3.7	7
167	Toward single-molecule proteomics. Science, 2021, 374, 1443-1444.	6.0	7
168	Lifetime of glass nanopores in a PDMS chip for single-molecule sensing. IScience, 2022, 25, 104191.	1.9	7
169	Measuring Thousands of Single-Vesicle Leakage Events Reveals the Mode of Action of Antimicrobial Peptides. Analytical Chemistry, 2022, 94, 9530-9539.	3.2	7
170	Fabrication of Quantum Dots with Scanning Probe Nanolithography. Physica Status Solidi (B): Basic Research, 2001, 224, 681-684.	0.7	6
171	Optical Tweezers for Mechanical Control Over DNA in a Nanopore. Methods in Molecular Biology, 2012, 870, 115-134.	0.4	6
172	Noise properties of rectifying and non-rectifying nanopores. Nanotechnology, 2020, 31, 10LT01.	1.3	6
173	DNA Nanotechnology for Building Sensors, Nanopores and Ion-Channels. Advances in Experimental Medicine and Biology, 2019, 1174, 331-370.	0.8	6
174	Photoluminescence of self-assembled InAs/AlAs quantum dots as a function of density. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 117-119.	1.3	5
175	Self-aware particles. Nature, 2011, 478, 45-46.	13.7	5
176	Analyzing Single DNA Molecules by Nanopore Translocation. Methods in Molecular Biology, 2012, 870, 135-145.	0.4	5
177	Experimental Measurement of Relative Path Probabilities and Stochastic Actions. Physical Review X, 2021, 11, .	2.8	5
178	Membrane Activity of a DNA-Based Ion Channel Depends on the Stability of Its Double-Stranded Structure. Nano Letters, 2021, 21, 9789-9796.	4.5	5
179	Fabrication of double quantum dots by combining afm and e-beam lithography. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 483-486.	1.3	4
180	Nondeterministic self-assembly with asymmetric interactions. Physical Review E, 2016, 94, 022404.	0.8	4

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181	Particle transport across a channel via an oscillating potential. Physical Review E, 2017, 96, 052401.	0.8	4
182	Ionic and molecular transport in aqueous solution through 2D and layered nanoporous membranes. Journal Physics D: Applied Physics, 2021, 54, 183002.	1.3	4
183	Fano resonances in semiconductor quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1305-1308.	0.8	3
184	Nanopores – mission accomplished and what next?. Physics of Life Reviews, 2012, 9, 164-166.	1.5	3
185	DNA Translocation. , 2013, , 31-58.		3
186	Channel-length dependence of particle diffusivity in confinement. Soft Matter, 2021, 17, 5131-5136.	1.2	3
187	Nanofluidic Traps by Two-Photon Fabrication for Extended Detection of Single Macromolecules and Colloids in Solution. ACS Applied Nano Materials, 2022, 5, 1995-2005.	2.4	3
188	Fractional Aharonov-Bohm Oscillations in a Kondo Correlated Few-Electron Quantum Ring. Advances in Solid State Physics, 0, , 113-124.	0.8	2
189	Quantifying proton-induced membrane polarization in single biomimetic giant vesicles. Biophysical Journal, 2022, 121, 2223-2232.	0.2	2
190	Aharonov–Bohm effect of a quantum ring in the Kondo regime. Physica Status Solidi (B): Basic Research, 2003, 238, 331-334.	0.7	1
191	Colloid Flow Control in Microchannels and Detection by Laser Scattering. , 2012, , 45-49.		1
192	Influence of internal viscoelastic modes on the Brownian motion of a λ-DNA coated colloid. Soft Matter, 2014, 10, 1738.	1.2	1
193	DNA origami based assembly of gold nanoparticle dimers for SERS detection. Proceedings of SPIE, 2015, , .	0.8	1
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195	Pushing the resolution of dCas9 barcodes for multiplexed DNA identification with nanopore sensors. , 2019, , .		1
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