Ulrich F Keyser

List of Publications by Citations

189 papers	9,326 citations	51 h-index	91 g-index
236 ext. papers	11,082 ext. citations	8.5 avg, IF	6.5 L-index

#	Paper	IF	Citations
189	Salt dependence of ion transport and DNA translocation through solid-state nanopores. *Nano Letters*, **2006**, 6, 89-95	11.5	625
188	Direct force measurements on DNA in a solid-state nanopore. *Nature Physics*, **2006**, 2, 473-477	16.2	511
187	Real-time deformability cytometry: on-the-fly cell mechanical phenotyping. *Nature Methods*, **2015**, 12, 199-202, 4 p following 202	21.6	382
186	DNA origami based assembly of gold nanoparticle dimers for surface-enhanced Raman scattering. *Nature Communications*, **2014**, 5, 3448	17.4	316
185	Origin of the electrophoretic force on DNA in solid-state nanopores. *Nature Physics*, **2009**, 5, 347-351	16.2	287
184	Noise in solid-state nanopores. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 417-21	11.5	265
183	Bacterial metabolite indole modulates incretin secretion from intestinal enteroendocrine L cells. *Cell Reports*, **2014**, 9, 1202-8	10.6	257
182	DNA origami nanopores. *Nano Letters*, **2012**, 12, 512-7	11.5	235
181	Single protein molecule detection by glass nanopores. *ACS Nano*, **2013**, 7, 4129-34	16.7	200
180	Digitally encoded DNA nanostructures for multiplexed, single-molecule protein sensing with nanopores. *Nature Nanotechnology*, **2016**, 11, 645-51	28.7	180
179	Detecting DNA folding with nanocapillaries. *Nano Letters*, **2010**, 10, 2493-7	11.5	155
178	Lipid-bilayer-spanning DNA nanopores with a bifunctional porphyrin anchor. *Angewandte Chemie - International Edition*, **2013**, 52, 12069-72	16.4	151
177	Viscoelastic properties of differentiating blood cells are fate- and function-dependent. *PLoS ONE*, **2012**, 7, e45237	3.7	133
176	Controlling molecular transport through nanopores. *Journal of the Royal Society Interface*, **2011**, 8, 1369-78	4.1	132
175	Specific protein detection using designed DNA carriers and nanopores. *Journal of the American Chemical Society*, **2015**, 137, 2035-41	16.4	130
174	Large-Conductance Transmembrane Porin Made from DNA Origami. *ACS Nano*, **2016**, 10, 8207-14	16.7	124
173	Kondo effect in a few-electron quantum ring. *Physical Review Letters*, **2003**, 90, 196601	7.4	118

172	Auxetic nuclei in embryonic stem cells exiting pluripotency. *Nature Materials*, **2014**, 13, 638-644	27	113
171	Optical tweezers for force measurements on DNA in nanopores. *Review of Scientific Instruments*, **2006**, 77, 105105	1.7	110
170	Nanobubbles in solid-state nanopores. *Physical Review Letters*, **2006**, 97, 088101	7.4	106
169	Suppressed Quenching and Strong-Coupling of Purcell-Enhanced Single-Molecule Emission in Plasmonic Nanocavities. *ACS Photonics*, **2018**, 5, 186-191	6.3	99
168	DNA origami nanopores for controlling DNA translocation. *ACS Nano*, **2013**, 7, 6024-30	16.7	99
167	Indole prevents Escherichia coli cell division by modulating membrane potential. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 1590-4	3.8	97
166	Mapping Nanoscale Hotspots with Single-Molecule Emitters Assembled into Plasmonic Nanocavities Using DNA Origami. *Nano Letters*, **2018**, 18, 405-411	11.5	97
165	Protein reconstitution into freestanding planar lipid membranes for electrophysiological characterization. *Nature Protocols*, **2015**, 10, 188-98	18.8	96
164	DNA-Tile Structures Induce Ionic Currents through Lipid Membranes. *Nano Letters*, **2015**, 15, 3134-8	11.5	93
163	Bilayer-spanning DNA nanopores with voltage-switching between open and closed state. *ACS Nano*, **2015**, 9, 1117-26	16.7	90
162	Ion Channels Made from a Single Membrane-Spanning DNA Duplex. *Nano Letters*, **2016**, 16, 4665-9	11.5	87
161	Forces between single pairs of charged colloids in aqueous salt solutions. *Physical Review E*, **2007**, 76, 031403	2.4	84
160	Quantum electrodynamics at room temperature coupling a single vibrating molecule with a plasmonic nanocavity. *Nature Communications*, **2019**, 10, 1049	17.4	80
159	Programming Light-Harvesting Efficiency Using DNA Origami. *Nano Letters*, **2016**, 16, 2369-74	11.5	80
158	Camera-based three-dimensional real-time particle tracking at kHz rates and Ångström accuracy. *Nature Communications*, **2015**, 6, 5885	17.4	79
157	Fabrication of a single-electron transistor by current-controlled local oxidation of a two-dimensional electron system. *Applied Physics Letters*, **2000**, 76, 457-459	3.4	76
156	Quantifying Nanomolar Protein Concentrations Using Designed DNA Carriers and Solid-State Nanopores. *Nano Letters*, **2016**, 16, 3557-62	11.5	76
155	Extrinsic Cation Selectivity of 2D Membranes. *ACS Nano*, **2017**, 11, 1340-1346	16.7	71

154	Aharonov‐Bohm oscillations of a tuneable quantum ring. *Semiconductor Science and Technology*, **2002**, 17, L22-L24	1.8	71
153	Ionic conductivity, structural deformation, and programmable anisotropy of DNA origami in electric field. *ACS Nano*, **2015**, 9, 1420-33	16.7	69
152	A synthetic enzyme built from DNA flips 10 lipids per second in biological membranes. *Nature Communications*, **2018**, 9, 2426	17.4	68
151	Nanopore tomography of a laser focus. *Nano Letters*, **2005**, 5, 2253-6	11.5	66
150	Gap-Dependent Coupling of Ag‐Au Nanoparticle Heterodimers Using DNA Origami-Based Self-Assembly. *ACS Photonics*, **2016**, 3, 1589-1595	6.3	66
149	Indole transport across Escherichia coli membranes. *Journal of Bacteriology*, **2011**, 193, 1793-8	3.5	63
148	Phase-state dependent current fluctuations in pure lipid membranes. *Biophysical Journal*, **2009**, 96, 4592-7	2.9	62
147	DNA origami nanopores: developments, challenges and perspectives. *Nanoscale*, **2014**, 6, 14121-32	7.7	61
146	Nanopores formed by DNA origami: a review. *FEBS Letters*, **2014**, 588, 3564-70	3.8	59
145	Real-time particle tracking at 10,000 fps using optical fiber illumination. *Optics Express*, **2010**, 18, 22722-33	3.3	58
144	Digital Data Storage Using DNA Nanostructures and Solid-State Nanopores. *Nano Letters*, **2019**, 19, 1210-1215	11.5	58
143	Nanomachining of mesoscopic electronic devices using an atomic force microscope. *Applied Physics Letters*, **1999**, 75, 1107-1109	3.4	57
142	Tether forces in DNA electrophoresis. *Chemical Society Reviews*, **2010**, 39, 939-47	58.5	56
141	Multiplexed ionic current sensing with glass nanopores. *Lab on A Chip*, **2013**, 13, 1859-62	7.2	55
140	Thermo-Responsive Actuation of a DNA Origami Flexor. *Advanced Functional Materials*, **2018**, 28, 1706410	15.6	52
139	Enhancing nanopore sensing with DNA nanotechnology. *Nature Nanotechnology*, **2016**, 11, 106-8	28.7	51
138	Single molecule based SNP detection using designed DNA carriers and solid-state nanopores. *Chemical Communications*, **2016**, 53, 436-439	5.8	49
137	Voltage-dependent properties of DNA origami nanopores. *Nano Letters*, **2014**, 14, 1270-4	11.5	49

136	Voltage-driven transport of ions and DNA through nanocapillaries. *Electrophoresis*, **2012**, 33, 3480-7	3.6	49
135	Electroosmotic flow rectification in conical nanopores. *Nanotechnology*, **2015**, 26, 275202	3.4	47
134	Translocation frequency of double-stranded DNA through a solid-state nanopore. *Physical Review E* , **2016**, 93, 022401	2.4	47
133	Optical tweezers with 2.5 kHz bandwidth video detection for single-colloid electrophoresis. *Review of Scientific Instruments*, **2008**, 79, 023710	1.7	47
132	Anisotropic diffusion of spherical particles in closely confining microchannels. *Physical Review E*, **2014**, 89, 062305	2.4	46
131	Quantification of Fluoroquinolone Uptake through the Outer Membrane Channel OmpF of Escherichia coli. *Journal of the American Chemical Society*, **2015**, 137, 13836-43	16.4	45
130	Sensing DNA-coatings of microparticles using micropipettes. *Biosensors and Bioelectronics*, **2009**, 24, 2423-7	11.8	45
129	Blockable Zn L Ion Channels through Subcomponent Self-Assembly. *Angewandte Chemie - International Edition*, **2017**, 56, 15388-15392	16.4	43
128	Asymmetric dynamics of DNA entering and exiting a strongly confining nanopore. *Nature Communications*, **2017**, 8, 380	17.4	43
127	Measuring the proton selectivity of graphene membranes. *Applied Physics Letters*, **2015**, 107, 213104	3.4	42
126	The indole pulse: a new perspective on indole signalling in Escherichia coli. *PLoS ONE*, **2014**, 9, e93168	3.7	41
125	Electroosmotic flow reversal outside glass nanopores. *Nano Letters*, **2015**, 15, 695-702	11.5	40
124	Free-standing graphene membranes on glass nanopores for ionic current measurements. *Applied Physics Letters*, **2015**, 106, 023119	3.4	40
123	Ionic Current-Based Mapping of Short Sequence Motifs in Single DNA Molecules Using Solid-State Nanopores. *Nano Letters*, **2017**, 17, 5199-5205	11.5	39
122	Studying DNA translocation in nanocapillaries using single molecule fluorescence. *Applied Physics Letters*, **2012**, 101, 223704	3.4	38
121	A Landau-Squire nanojet. *Nano Letters*, **2013**, 13, 5141-6	11.5	37
120	Nanopore-Based DNA Hard Drives for Rewritable and Secure Data Storage. *Nano Letters*, **2020**, 20, 3754-3760	11.5	35
119	Simple reconstitution of protein pores in nano lipid bilayers. *Nano Letters*, **2011**, 11, 3334-40	11.5	35

118	QuipuNet: Convolutional Neural Network for Single-Molecule Nanopore Sensing. *Nano Letters*, **2018**, 18, 4040-4045	11.5	35
117	DNA interactions in crowded nanopores. *Nano Letters*, **2013**, 13, 2798-802	11.5	34
116	Optimizing diffusive transport through a synthetic membrane channel. *Advanced Materials*, **2013**, 25, 844-9	24	34
115	Microfluidics Reveals a Flow-Induced Large-Scale Polymorphism of Protein Aggregates. *Journal of Physical Chemistry Letters*, **2012**, 3, 2803-2807	6.4	33
114	Multiplexed DNA Identification Using Site Specific dCas9 Barcodes and Nanopore Sensing. *ACS Sensors*, **2019**, 4, 2065-2072	9.2	32
113	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	3	32
112	A microfluidic platform for the characterisation of membrane active antimicrobials. *Lab on A Chip*, **2019**, 19, 837-844	7.2	31
111	Optical Voltage Sensing Using DNA Origami. *Nano Letters*, **2018**, 18, 1962-1971	11.5	31
110	Channel-facilitated diffusion boosted by particle binding at the channel entrance. *Physical Review Letters*, **2014**, 113, 048102	7.4	31
109	Selective transport control on molecular velcro made from intrinsically disordered proteins. *Nature Nanotechnology*, **2014**, 9, 525-30	28.7	30
108	Nondecaying Hydrodynamic Interactions along Narrow Channels. *Physical Review Letters*, **2015**, 115, 038301	7.4	30
107	Controlling the Reversible Assembly of Liposomes through a Multistimuli Responsive Anchored DNA. *Nano Letters*, **2016**, 16, 4462-6	11.5	29
106	Scalable integration of nano-, and microfluidics with hybrid two-photon lithography. *Microsystems and Nanoengineering*, **2019**, 5, 40	7.7	28
105	Single colloid electrophoresis. *Journal of Colloid and Interface Science*, **2009**, 337, 260-4	9.3	28
104	Lipid-coated nanocapillaries for DNA sensing. *Analyst, The*, **2013**, 138, 104-6	5	27
103	Probing DNA with micro- and nanocapillaries and optical tweezers. *Journal of Physics Condensed Matter*, **2010**, 22, 454113	1.8	27
102	Modeling of colloidal transport in capillaries. *Journal of Applied Physics*, **2009**, 105, 084702	2.5	26
101	Experimental evidence of symmetry breaking of transition-path times. *Nature Communications*, **2019**, 10, 55	17.4	26

100	Nanotubes complexed with DNA and proteins for resistive-pulse sensing. *ACS Nano*, **2013**, 7, 8857-69	16.7	25
99	Lipid-Bilayer-Spanning DNA Nanopores with a Bifunctional Porphyrin Anchor. *Angewandte Chemie*, **2013**, 125, 12291-12294	3.6	25
98	Parallel sub-micrometre channels with different dimensions for laser scattering detection. *Lab on A Chip*, **2011**, 11, 3365-8	7.2	25
97	Single-cell microfluidics facilitates the rapid quantification of antibiotic accumulation in Gram-negative bacteria. *Lab on A Chip*, **2020**, 20, 2765-2775	7.2	24
96	The effect of bacterial signal indole on the electrical properties of lipid membranes. *ChemPhysChem*, **2013**, 14, 417-23	3.2	24
95	Nanopore analysis of amyloid fibrils formed by lysozyme aggregation. *Analyst, The*, **2015**, 140, 4882-6	5	24
94	Direction- and Salt-Dependent Ionic Current Signatures for DNA Sensing with Asymmetric Nanopores. *Biophysical Journal*, **2017**, 112, 674-682	2.9	23
93	Direct Optofluidic Measurement of the Lipid Permeability of Fluoroquinolones. *Scientific Reports*, **2016**, 6, 32824	4.9	23
92	Controlling aggregation of cholesterol-modified DNA nanostructures. *Nucleic Acids Research*, **2019**, 47, 11441-11451	20.1	23
91	Local characterization of hindered Brownian motion by using digital video microscopy and 3D particle tracking. *Review of Scientific Instruments*, **2014**, 85, 023708	1.7	23
90	An Integrated Microfluidic Platform for Quantifying Drug Permeation across Biomimetic Vesicle Membranes. *Molecular Pharmaceutics*, **2019**, 16, 2494-2501	5.6	22
89	A label-free microfluidic assay to quantitatively study antibiotic diffusion through lipid membranes. *Lab on A Chip*, **2014**, 14, 2303-8	7.2	22
88	High-speed video-based tracking of optically trapped colloids. *Journal of Optics (United Kingdom)*, **2011**, 13, 044011	1.7	22
87	Flux-quantum-modulated Kondo conductance in a multielectron quantum dot. *Physical Review B*, **2002**, 66,	3.3	22
86	Digital Sensing and Molecular Computation by an Enzyme-Free DNA Circuit. *ACS Nano*, **2020**, 14, 5763-5771	16.7	22
85	FeL Tetrahedron Binds to Nonpaired DNA Bases. *Journal of the American Chemical Society*, **2019**, 141, 11358-11362	16.4	21
84	Rapid internal contraction boosts DNA friction. *Nature Communications*, **2013**, 4, 1780	17.4	21
83	Measurement of the position-dependent electrophoretic force on DNA in a glass nanocapillary. *Nano Letters*, **2014**, 14, 6606-13	11.5	20

82	Lipid nanobilayers to host biological nanopores for DNA translocations. *Langmuir*, **2013**, 29, 355-64	4	20
81	Kinetically limited quantum dot formation on AlAs(100) surfaces. *Journal of Crystal Growth*, **2003**, 249, 477-482	1.6	20
80	Fabrication of quantum point contacts by engraving GaAs/AlGaAs heterostructures with a diamond tip. *Applied Physics Letters*, **2002**, 81, 2023-2025	3.4	20
79	Optimizing Brownian escape rates by potential shaping. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 1383-1388	11.5	20
78	The Crucial Role of Charge in Thermoresponsive-Polymer-Assisted Reversible Dis/Assembly of Gold Nanoparticles. *Advanced Optical Materials*, **2018**, 6, 1701270	8.1	19
77	Current Enhancement in Solid-State Nanopores Depends on Three-Dimensional DNA Structure. *Nano Letters*, **2019**, 19, 5661-5666	11.5	19
76	All-Optical Detection of Neuronal Membrane Depolarization in Live Cells Using Colloidal Quantum Dots. *Nano Letters*, **2019**, 19, 8539-8549	11.5	19
75	A microfluidic device for characterizing nuclear deformations. *Lab on A Chip*, **2017**, 17, 805-813	7.2	18
74	Promoting single-file DNA translocations through nanopores using electro-osmotic flow. *Journal of Chemical Physics*, **2018**, 149, 163311	3.9	18
73	Spin blockade in capacitively coupled quantum dots. *Applied Physics Letters*, **2004**, 85, 606-608	3.4	18
72	Diamond cantilever with integrated tip for nanomachining. *Diamond and Related Materials*, **2002**, 11, 667-671	3.5	18
71	Specific Biosensing Using DNA Aptamers and Nanopores. *Advanced Functional Materials*, **2019**, 29, 1807555	15.6	18
70	Indole Pulse Signalling Regulates the Cytoplasmic pH of E. coli in a Memory-Like Manner. *Scientific Reports*, **2019**, 9, 3868	4.9	17
69	Dependence of norfloxacin diffusion across bilayers on lipid composition. *Soft Matter*, **2016**, 12, 2135-44	3.6	17
68	Tunable Anion-Selective Transport through Monolayer Graphene and Hexagonal Boron Nitride. *ACS Nano*, **2020**, 14, 2729-2738	16.7	17
67	Note: Direct force and ionic-current measurements on DNA in a nanocapillary. *Review of Scientific Instruments*, **2011**, 82, 086102	1.7	15
66	Perpendicular coupling to in-plane photonics using arc waveguides fabricated via two-photon polymerization. *Applied Physics Letters*, **2012**, 100, 171102	3.4	15
65	Combined atomic force microscope and electron-beam lithography used for the fabrication of variable-coupling quantum dots. *Applied Physics Letters*, **2003**, 83, 1163-1165	3.4	15

64	Tailoring the Binding Properties of Phosphazane Anion Receptors and Transporters. *Journal of the American Chemical Society*, **2019**, 141, 8807-8815	16.4	14
63	Combining Affinity Selection and Specific Ion Mobility for Microchip Protein Sensing. *Analytical Chemistry*, **2018**, 90, 10302-10310	7.8	14
62	Nonlinear Electrophoresis of Highly Charged Nonpolarizable Particles. *Physical Review Letters*, **2019**, 123, 014502	7.4	14
61	Optical tweezers to study single protein A/immunoglobulin G interactions at varying conditions. *European Biophysics Journal*, **2008**, 37, 927-34	1.9	14
60	Characterization of lipid composition and diffusivity in OLA generated vesicles. *Biochimica Et Biophysica Acta - Biomembranes*, **2020**, 1862, 183359	3.8	13
59	Direct detection of molecular intermediates from first-passage times. *Science Advances*, **2020**, 6, eaaz4642	14.3	12
58	Blockable Zn10L15 Ion Channels through Subcomponent Self-Assembly. *Angewandte Chemie*, **2017**, 129, 15590-15594	3.6	12
57	Micro-rheology on (polymer-grafted) colloids using optical tweezers. *Journal of Physics Condensed Matter*, **2011**, 23, 184114	1.8	12
56	Tuning the onset voltage of resonant tunneling through InAs quantum dots by growth parameters. *Applied Physics Letters*, **2003**, 82, 1209-1211	3.4	12
55	Selective Trapping of DNA Using Glass Microcapillaries. *Langmuir*, **2016**, 32, 8525-32	4	11
54	Monitoring G-Quadruplex Formation with DNA Carriers and Solid-State Nanopores. *Nano Letters*, **2019**, 19, 7996-8001	11.5	10
53	Aerosol-jet printing facilitates the rapid prototyping of microfluidic devices with versatile geometries and precise channel functionalization. *Applied Materials Today*, **2020**, 19, 100618	6.6	10
52	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	3	10
51	Cations Regulate Membrane Attachment and Functionality of DNA Nanostructures. *Journal of the American Chemical Society*, **2021**, 143, 7358-7367	16.4	10
50	Diffusion coefficients and particle transport in synthetic membrane channels. *European Physical Journal: Special Topics*, **2014**, 223, 3145-3163	2.3	9
49	Switching Cytolytic Nanopores into Antimicrobial Fractal Ruptures by a Single Side Chain Mutation. *ACS Nano*, **2021**, 15, 9679-9689	16.7	9
48	Kinetics of Toehold-Mediated DNA Strand Displacement Depend on FeL Tetrahedron Concentration. *Nano Letters*, **2021**, 21, 1368-1374	11.5	9
47	Cation dependent electroosmotic flow in glass nanopores. *Applied Physics Letters*, **2019**, 115, 113702	3.4	8

46	Bacterial nucleoid structure probed by active drag and resistive pulse sensing. *Integrative Biology (United Kingdom)*, **2014**, 6, 184-91	3.7	8
45	Conformational Control in Main Group Phosphazane Anion Receptors and Transporters. *Journal of the American Chemical Society*, **2020**, 142, 1029-1037	16.4	8
44	Density-Dependent Speed-up of Particle Transport in Channels. *Physical Review Letters*, **2019**, 122, 214501	7.4	7
43	Tailoring Interleaflet Lipid Transfer with a DNA-based Synthetic Enzyme. *Nano Letters*, **2020**, 20, 4306-4311	11.5	7
42	Kinetics of TmHU binding to DNA as observed by optical tweezers. *Microscopy Research and Technique*, **2007**, 70, 938-43	2.8	7
41	Direct fabrication of parallel quantum dots with an atomic force microscope. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 13, 1155-1158	3	7
40	Inserting and manipulating DNA in a nanopore with optical tweezers. *Methods in Molecular Biology*, **2009**, 544, 95-112	1.4	7
39	Fabrication of Quantum Dots with Scanning Probe Nanolithography. *Physica Status Solidi (B): Basic Research*, **2001**, 224, 681-684	1.3	6
38	Electrical DNA Sequence Mapping Using Oligodeoxynucleotide Labels and Nanopores. *ACS Nano*, **2021**, 15, 2679-2685	16.7	6
37	Optical tweezers for mechanical control over DNA in a nanopore. *Methods in Molecular Biology*, **2012**, 870, 115-34	1.4	5
36	Analyzing single DNA molecules by nanopore translocation. *Methods in Molecular Biology*, **2012**, 870, 135-45	1.4	5
35	DNA condensation by TmHU studied by optical tweezers, AFM and molecular dynamics simulations. *Journal of Biological Physics*, **2011**, 37, 117-31	1.6	5
34	Photoluminescence of self-assembled InAs/AlAs quantum dots as a function of density. *Physica E: Low-Dimensional Systems and Nanostructures*, **2003**, 17, 117-119	3	5
33	DNA Origami Voltage Sensors for Transmembrane Potentials with Single-Molecule Sensitivity. *Nano Letters*, **2021**, 21, 8634-8641	11.5	5
32	Noise properties of rectifying and non-rectifying nanopores. *Nanotechnology*, **2019**, 31, 10LT01	3.4	5
31	Image Encoding Using Multi-Level DNA Barcodes with Nanopore Readout. *Small*, **2021**, 17, e2100711	11	5
30	Dynamics of driven polymer transport through a nanopore. *Nature Physics*, **2021**, 17, 1043-1049	16.2	5
29	Particle transport across a channel via an oscillating potential. *Physical Review E*, **2017**, 96, 052401	2.4	4

28	Fabrication of double quantum dots by combining afm and e-beam lithography. *Physica E: Low-Dimensional Systems and Nanostructures*, **2004**, 21, 483-486	3	4
27	DNA Structural Barcode Copying and Random Access. *Small Structures*, **2021**, 2, 2000144	8.7	4
26	Fano resonances in semiconductor quantum dots. *Physica Status Solidi C: Current Topics in Solid State Physics*, **2003**, 1305-1308		3
25	Nondeterministic self-assembly with asymmetric interactions. *Physical Review E*, **2016**, 94, 022404	2.4	3
24	Dynamics of deterministically positioned single-bond surface-enhanced Raman scattering from DNA origami assembled in plasmonic nanogaps. *Journal of Raman Spectroscopy*, **2021**, 52, 348-354	2.3	3
23	Nanopores - mission accomplished and what next?: Comment on "Nanopores: A journey towards DNA sequencing" by M. Wanunu. *Physics of Life Reviews*, **2012**, 9, 164-6; discussion 174-6	2.1	2
22	Fractional Aharonov-Bohm Oscillations in a Kondo Correlated Few-Electron Quantum Ring. *Advances in Solid State Physics*, **2003**, 113-124		2
21	A Microfluidic Platform for Sequential Assembly and Separation of Synthetic Cell Models. *ACS Synthetic Biology*, **2021**, 10, 3105-3116	5.7	2
20	DNA Nanotechnology for Building Sensors, Nanopores and Ion-Channels. *Advances in Experimental Medicine and Biology*, **2019**, 1174, 331-370	3.6	2
19	Standardizing characterization of membrane active peptides with microfluidics. *Biomicrofluidics*, **2021**, 15, 041301	3.2	2
18	Influence of internal viscoelastic modes on the Brownian motion of a [illegible]DNA coated colloid. *Soft Matter*, **2014**, 10, 1738-45	3.6	1
17	DNA Translocation **2013**, 31-58		1
16	Colloid Flow Control in Microchannels and Detection by Laser Scattering **2012**, 45-49		1
15	AharonovBohm effect of a quantum ring in the Kondo regime. *Physica Status Solidi (B): Basic Research*, **2003**, 238, 331-334	1.3	1
14	Secure data storage on DNA hard drives		1
13	Experimental Measurement of Relative Path Probabilities and Stochastic Actions. *Physical Review X*, **2021**, 11,	9.1	1
12	Channel-length dependence of particle diffusivity in confinement. *Soft Matter*, **2021**, 17, 5131-5136	3.6	1
11	Ionic and molecular transport in aqueous solution through 2D and layered nanoporous membranes. *Journal Physics D: Applied Physics*, **2021**, 54, 183002	3	1

10	Measuring thousands of single vesicle leakage events reveals the mode of action of antimicrobial peptides		1
9	Current Fluctuations in Nanopores Reveal the Polymer-Wall Adsorption Potential. *Physical Review Letters*, **2021**, 127, 137801	7.4	1
8	An ultrasensitive microfluidic approach reveals correlations between the physico-chemical and biological activity of experimental peptide antibiotics.. *Scientific Reports*, **2022**, 12, 4005	4.9	1
7	Toward single-molecule proteomics.. *Science*, **2021**, 374, 1443-1444	33.3	0
6	Membrane Activity of a DNA-Based Ion Channel Depends on the Stability of Its Double-Stranded Structure. *Nano Letters*, **2021**, 21, 9789-9796	11.5	0
5	Fe L tetrahedron binds and aggregates DNA G-quadruplexes. *Chemical Science*, **2021**, 12, 14564-14569	9.4	0
4	Lifetime of glass nanopores in a PDMS chip for single-molecule sensing.. *IScience*, **2022**, 25, 104191	6.1	0
3	Giant Unilamellar Vesicles and Suspended Nanobilayers as Model Systems for Biophysical Research. *Behavior Research Methods*, **2014**, 67-89	6.1	
2	Design and Assembly of Membrane-Spanning DNA Nanopores. *Methods in Molecular Biology*, **2021**, 2186, 33-48	1.4	
1	3D flow field measurements outside nanopores. *Review of Scientific Instruments*, **2022**, 93, 054106	1.7	