

# Cees Dekker

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/609258/publications.pdf>

Version: 2024-02-01

368  
papers

63,208  
citations

1463

107  
h-index

893

242  
g-index

412  
all docs

412  
docs citations

412  
times ranked

41144  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room-temperature transistor based on a single carbon nanotube. <i>Nature</i> , 1998, 393, 49-52.	27.8	5,167
2	Electronic structure of atomically resolved carbon nanotubes. <i>Nature</i> , 1998, 391, 59-62.	27.8	2,898
3	Individual single-wall carbon nanotubes as quantum wires. <i>Nature</i> , 1997, 386, 474-477.	27.8	2,812
4	Logic Circuits with Carbon Nanotube Transistors. <i>Science</i> , 2001, 294, 1317-1320.	12.6	2,523
5	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015, 7, 4598-4810.	5.6	2,452
6	Solid-state nanopores. <i>Nature Nanotechnology</i> , 2007, 2, 209-215.	31.5	1,743
7	Carbon nanotube intramolecular junctions. <i>Nature</i> , 1999, 402, 273-276.	27.8	1,639
8	Direct measurement of electrical transport through DNA molecules. <i>Nature</i> , 2000, 403, 635-638.	27.8	1,623
9	High-Field Electrical Transport in Single-Wall Carbon Nanotubes. <i>Physical Review Letters</i> , 2000, 84, 2941-2944.	7.8	1,356
10	Enzyme-Coated Carbon Nanotubes as Single-Molecule Biosensors. <i>Nano Letters</i> , 2003, 3, 727-730.	9.1	1,262
11	Carbon Nanotubes as Molecular Quantum Wires. <i>Physics Today</i> , 1999, 52, 22-28.	0.3	1,257
12	Fabrication of solid-state nanopores with single-nanometre precision. <i>Nature Materials</i> , 2003, 2, 537-540.	27.5	1,212
13	Carbon Nanotube Single-Electron Transistors at Room Temperature. <i>Science</i> , 2001, 293, 76-79.	12.6	1,025
14	Surface-Charge-Governed Ion Transport in Nanofluidic Channels. <i>Physical Review Letters</i> , 2004, 93, 035901.	7.8	936
15	DNA Translocation through Graphene Nanopores. <i>Nano Letters</i> , 2010, 10, 3163-3167.	9.1	908
16	Salt Dependence of Ion Transport and DNA Translocation through Solid-State Nanopores. <i>Nano Letters</i> , 2006, 6, 89-95.	9.1	735
17	Fast DNA Translocation through a Solid-State Nanopore. <i>Nano Letters</i> , 2005, 5, 1193-1197.	9.1	675
18	Real-time imaging of DNA loop extrusion by condensin. <i>Science</i> , 2018, 360, 102-105.	12.6	624

#	ARTICLE	IF	CITATIONS
19	Direct force measurements on DNA in a solid-state nanopore. <i>Nature Physics</i> , 2006, 2, 473-477.	16.7	587
20	Motor Proteins at Work for Nanotechnology. <i>Science</i> , 2007, 317, 333-336.	12.6	507
21	Graphene nanodevices for DNA sequencing. <i>Nature Nanotechnology</i> , 2016, 11, 127-136.	31.5	506
22	Treadmilling by FtsZ filaments drives peptidoglycan synthesis and bacterial cell division. <i>Science</i> , 2017, 355, 739-743.	12.6	503
23	Carbon nanotubes with DNA recognition. <i>Nature</i> , 2002, 420, 761-761.	27.8	490
24	Power Generation by Pressure-Driven Transport of Ions in Nanofluidic Channels. <i>Nano Letters</i> , 2007, 7, 1022-1025.	9.1	489
25	Human Rad50/Mre11 Is a Flexible Complex that Can Tether DNA Ends. <i>Molecular Cell</i> , 2001, 8, 1129-1135.	9.7	437
26	Identifying the Mechanism of Biosensing with Carbon Nanotube Transistors. <i>Nano Letters</i> , 2008, 8, 591-595.	9.1	431
27	Electrostatic trapping of single conducting nanoparticles between nanoelectrodes. <i>Applied Physics Letters</i> , 1997, 71, 1273-1275.	3.3	422
28	Streaming Currents in a Single Nanofluidic Channel. <i>Physical Review Letters</i> , 2005, 95, 116104.	7.8	420
29	Insulating behavior for DNA molecules between nanoelectrodes at the 100 nm length scale. <i>Applied Physics Letters</i> , 2001, 79, 3881-3883.	3.3	419
30	Fullerene 'crop circles'. <i>Nature</i> , 1997, 385, 780-781.	27.8	402
31	Electrokinetic Energy Conversion Efficiency in Nanofluidic Channels. <i>Nano Letters</i> , 2006, 6, 2232-2237.	9.1	394
32	Electrodeposition of Noble Metal Nanoparticles on Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2005, 127, 6146-6147.	13.7	390
33	Translocation of double-strand DNA through a silicon oxide nanopore. <i>Physical Review E</i> , 2005, 71, 051903.	2.1	389
34	Modeling the conductance and DNA blockade of solid-state nanopores. <i>Nanotechnology</i> , 2011, 22, 315101.	2.6	380
35	High flexibility of DNA on short length scales probed by atomic force microscopy. <i>Nature Nanotechnology</i> , 2006, 1, 137-141.	31.5	345
36	Slowing down DNA Translocation through a Nanopore in Lithium Chloride. <i>Nano Letters</i> , 2012, 12, 1038-1044.	9.1	343

#	ARTICLE	IF	CITATIONS
37	Orbital Kondo effect in carbon nanotubes. <i>Nature</i> , 2005, 434, 484-488.	27.8	341
38	Origin of the electrophoretic force on DNA in solid-state nanopores. <i>Nature Physics</i> , 2009, 5, 347-351.	16.7	327
39	Recent Advances in Magnetic Tweezers. <i>Annual Review of Biophysics</i> , 2012, 41, 453-472.	10.0	318
40	Fast Translocation of Proteins through Solid State Nanopores. <i>Nano Letters</i> , 2013, 13, 658-663.	9.1	316
41	Noise in solid-state nanopores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 417-421.	7.1	315
42	Imaging Electron Wave Functions of Quantized Energy Levels in Carbon Nanotubes. <i>Science</i> , 1999, 283, 52-55.	12.6	311
43	DNA sequencing with nanopores. <i>Nature Biotechnology</i> , 2012, 30, 326-328.	17.5	300
44	Multiprobe Transport Experiments on Individual Single-Wall Carbon Nanotubes. <i>Physical Review Letters</i> , 1998, 80, 4036-4039.	7.8	297
45	Electrical generation and absorption of phonons in carbon nanotubes. <i>Nature</i> , 2004, 432, 371-374.	27.8	294
46	Individual Single-Walled Carbon Nanotubes as Nanoelectrodes for Electrochemistry. <i>Nano Letters</i> , 2005, 5, 137-142.	9.1	293
47	Paving the way to single-molecule protein sequencing. <i>Nature Nanotechnology</i> , 2018, 13, 786-796.	31.5	292
48	Friction and torque govern the relaxation of DNA supercoils by eukaryotic topoisomerase IB. <i>Nature</i> , 2005, 434, 671-674.	27.8	287
49	Dual architectural roles of HU: Formation of flexible hinges and rigid filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6969-6974.	7.1	272
50	Electronic properties of DNA. <i>Physics World</i> , 2001, 14, 29-33.	0.0	271
51	Octanol-assisted liposome assembly on chip. <i>Nature Communications</i> , 2016, 7, 10447.	12.8	269
52	The condensin complex is a mechanochemical motor that translocates along DNA. <i>Science</i> , 2017, 358, 672-676.	12.6	266
53	Hybrid pore formation by directed insertion of $\sigma$ -haemolysin into solid-state nanopores. <i>Nature Nanotechnology</i> , 2010, 5, 874-877.	31.5	261
54	Electron-electron correlations in carbon nanotubes. <i>Nature</i> , 1998, 394, 761-764.	27.8	247

#	ARTICLE	IF	CITATIONS
55	Atomic-Scale Electron-Beam Sculpting of Near-Defect-Free Graphene Nanostructures. Nano Letters, 2011, 11, 2247-2250.	9.1	246
56	Bacterial growth and motility in sub-micron constrictions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14861-14866.	7.1	244
57	Mesoscale conformational changes in the DNA-repair complex Rad50/Mre11/Nbs1 upon binding DNA. Nature, 2005, 437, 440-443.	27.8	243
58	Single-Molecule Measurements of the Persistence Length of Double-Stranded RNA. Biophysical Journal, 2005, 88, 2737-2744.	0.5	241
59	Charge Inversion at High Ionic Strength Studied by Streaming Currents. Physical Review Letters, 2006, 96, 224502.	7.8	239
60	Tunneling in Suspended Carbon Nanotubes Assisted by Longitudinal Phonons. Physical Review Letters, 2006, 96, 026801.	7.8	229
61	Activated dynamics in a two-dimensional Ising spin glass: $Rb_2Cu_1-xCo_xF_4$ . Physical Review B, 1989, 40, 11243-11251.	3.2	228
62	Molecular Sorting by Electrical Steering of Microtubules in Kinesin-Coated Channels. Science, 2006, 312, 910-914.	12.6	225
63	Multiple rereads of single proteins at single amino acid resolution using nanopores. Science, 2021, 374, 1509-1513.	12.6	222
64	Single-molecule transport across an individual biomimetic nuclear pore complex. Nature Nanotechnology, 2011, 6, 433-438.	31.5	221
65	Temperature-dependent resistivity of single-wall carbon nanotubes. Europhysics Letters, 1998, 41, 683-688.	2.0	220
66	Controlling Defects in Graphene for Optimizing the Electrical Properties of Graphene Nanodevices. ACS Nano, 2015, 9, 3428-3435.	14.6	220
67	Detection of Local Protein Structures along DNA Using Solid-State Nanopores. Nano Letters, 2010, 10, 324-328.	9.1	218
68	Direct observation of DNA knots using a solid-state nanopore. Nature Nanotechnology, 2016, 11, 1093-1097.	31.5	214
69	Electron-hole symmetry in a semiconducting carbon nanotube quantum dot. Nature, 2004, 429, 389-392.	27.8	213
70	Electrochemistry at Single-Walled Carbon Nanotubes: The Role of Band Structure and Quantum Capacitance. Journal of the American Chemical Society, 2006, 128, 7353-7359.	18.7	210
71	Two-dimensional imaging of electronic wavefunctions in carbon nanotubes. Nature, 2001, 412, 617-620.	27.8	201
72	The emerging landscape of single-molecule protein sequencing technologies. Nature Methods, 2021, 18, 604-617.	19.0	198

#	ARTICLE	IF	CITATIONS
73	Dynamics of DNA Supercoils. <i>Science</i> , 2012, 338, 94-97.	12.6	196
74	Backbone-induced semiconducting behavior in shortDNAwires. <i>Physical Review B</i> , 2002, 65, .	3.2	195
75	Electrical transport through carbon nanotube junctions created by mechanical manipulation. <i>Physical Review B</i> , 2000, 62, R10653-R10656.	3.2	192
76	Wedging Transfer of Nanostructures. <i>Nano Letters</i> , 2010, 10, 1912-1916.	9.1	190
77	Tailoring the hydrophobicity of graphene for its use as nanopores for DNA translocation. <i>Nature Communications</i> , 2013, 4, 2619.	12.8	171
78	Zooming in to see the bigger picture: Microfluidic and nanofabrication tools to study bacteria. <i>Science</i> , 2014, 346, 1251821.	12.6	165
79	Atomic structure of carbon nanotubes from scanning tunneling microscopy. <i>Physical Review B</i> , 2000, 61, 2991-2996.	3.2	164
80	Potential modulations along carbon nanotubes. <i>Nature</i> , 2000, 404, 834-835.	27.8	164
81	Pressure-driven transport of confined DNA polymers in fluidic channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15853-15858.	7.1	163
82	Influence of Electrolyte Composition on Liquid-Gated Carbon Nanotube and Graphene Transistors. <i>Journal of the American Chemical Society</i> , 2010, 132, 17149-17156.	13.7	162
83	Biomimetic nanopores: learning from and about nature. <i>Trends in Biotechnology</i> , 2011, 29, 607-614.	9.3	162
84	Length control of individual carbon nanotubes by nanostructuring with a scanning tunneling microscope. <i>Applied Physics Letters</i> , 1997, 71, 2629-2631.	3.3	149
85	Spatiotemporal control of coacervate formation within liposomes. <i>Nature Communications</i> , 2019, 10, 1800.	12.8	149
86	Plasmonic Nanopores for Trapping, Controlling Displacement, and Sequencing of DNA. <i>ACS Nano</i> , 2015, 9, 10598-10611.	14.6	148
87	Absence of Strong Gate Effects in Electrical Measurements on Phenylene-Based Conjugated Molecules. <i>Nano Letters</i> , 2003, 3, 113-117.	9.1	145
88	Distinguishing Single- and Double-Stranded Nucleic Acid Molecules Using Solid-State Nanopores. <i>Nano Letters</i> , 2009, 9, 2953-2960.	9.1	144
89	Manipulation and Imaging of Individual Single-Walled Carbon Nanotubes with an Atomic Force Microscope. <i>Advanced Materials</i> , 2000, 12, 1299-1302.	21.0	140
90	Fabrication and Characterization of Nanopore-Based Electrodes with Radii down to 2 nm. <i>Nano Letters</i> , 2006, 6, 105-109.	9.1	135

#	ARTICLE	IF	CITATIONS
91	Measurement of the Exponent $\frac{1}{4}$ in the Low-Temperature Phase of $\text{YBa}_2\text{Cu}_3\text{O}_7$ Films in a Magnetic Field: Direct Evidence for a Vortex-Glass Phase. <i>Physical Review Letters</i> , 1992, 68, 3347-3350.	7.8	134
92	DNA Translocations through Solid-State Plasmonic Nanopores. <i>Nano Letters</i> , 2014, 14, 6917-6925.	9.1	133
93	Translocation of RecA-Coated Double-Stranded DNA through Solid-State Nanopores. <i>Nano Letters</i> , 2009, 9, 3089-3095.	9.1	129
94	Controlling nanopore size, shape and stability. <i>Nanotechnology</i> , 2010, 21, 115304.	2.6	129
95	Optical tweezers for force measurements on DNA in nanopores. <i>Review of Scientific Instruments</i> , 2006, 77, 105105.	1.3	128
96	Data analysis methods for solid-state nanopores. <i>Nanotechnology</i> , 2015, 26, 084003.	2.6	126
97	Conformation and Dynamics of DNA Confined in Slitlike Nanofluidic Channels. <i>Physical Review Letters</i> , 2008, 101, 108303.	7.8	124
98	Nanofabrication of electrodes with sub-5 nm spacing for transport experiments on single molecules and metal clusters. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1997, 15, 793.	1.6	123
99	Carbon nanotube biosensors: The critical role of the reference electrode. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	123
100	Detection of Individual Proteins Bound along DNA Using Solid-State Nanopores. <i>Nano Letters</i> , 2015, 15, 3153-3158.	9.1	122
101	Direct Immobilization of Native Yeast Iso-1 Cytochrome c on Bare Gold: A Fast Electron Relay to Redox Enzymes and Zeptomole Protein-Film Voltammetry. <i>Journal of the American Chemical Society</i> , 2004, 126, 11103-11112.	13.7	121
102	Nanobubbles in Solid-State Nanopores. <i>Physical Review Letters</i> , 2006, 97, 088101.	7.8	121
103	Comparing Current Noise in Biological and Solid-State Nanopores. <i>ACS Nano</i> , 2020, 14, 1338-1349.	14.6	119
104	Human Rad51 filaments on double- and single-stranded DNA: correlating regular and irregular forms with recombination function. <i>Nucleic Acids Research</i> , 2005, 33, 3292-3302.	14.5	116
105	Formation and control of wrinkles in graphene by the wedging transfer method. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	116
106	Spatially resolved scanning tunneling spectroscopy on single-walled carbon nanotubes. <i>Physical Review B</i> , 2000, 62, 5238-5244.	3.2	113
107	Real-time observation of DNA translocation by the type I restriction modification enzyme EcoRI. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 838-843.	8.2	111
108	On-chip microfluidic production of cell-sized liposomes. <i>Nature Protocols</i> , 2018, 13, 856-874.	12.0	111

#	ARTICLE	IF	CITATIONS
109	Charge Noise in Graphene Transistors. <i>Nano Letters</i> , 2010, 10, 1563-1567.	9.1	109
110	DNA origami scaffold for studying intrinsically disordered proteins of the nuclear pore complex. <i>Nature Communications</i> , 2018, 9, 902.	12.8	109
111	DNA-loop extruding condensin complexes can traverse one another. <i>Nature</i> , 2020, 579, 438-442.	27.8	108
112	Movement dynamics of divisome proteins and PBP2x:FtsW in cells of <i>Streptococcus pneumoniae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3211-3220.	7.1	107
113	Label-Free Optical Detection of DNA Translocations through Plasmonic Nanopores. <i>ACS Nano</i> , 2019, 13, 61-70.	14.6	107
114	Absence of a finite-temperature vortex-glass phase transition in two-dimensional $\text{YBa}_2\text{Cu}_3\text{O}_7$ films. <i>Physical Review Letters</i> , 1992, 69, 2717-2720.	7.8	106
115	Highly Parallel Magnetic Tweezers by Targeted DNA Tethering. <i>Nano Letters</i> , 2011, 11, 5489-5493.	9.1	105
116	Robustness and accuracy of cell division in <i>Escherichia coli</i> in diverse cell shapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 6957-6962.	7.1	104
117	Controllable Atomic Scale Patterning of Freestanding Monolayer Graphene at Elevated Temperature. <i>ACS Nano</i> , 2013, 7, 1566-1572.	14.6	104
118	Unraveling Single-Stranded DNA in a Solid-State Nanopore. <i>Nano Letters</i> , 2010, 10, 1414-1420.	9.1	103
119	Real-time assembly and disassembly of human RAD51 filaments on individual DNA molecules. <i>Nucleic Acids Research</i> , 2007, 35, 5646-5657.	14.5	100
120	1/f noise in graphene nanopores. <i>Nanotechnology</i> , 2015, 26, 074001.	2.6	100
121	Two Distinct DNA Binding Modes Guide Dual Roles of a CRISPR-Cas Protein Complex. <i>Molecular Cell</i> , 2015, 58, 60-70.	9.7	100
122	Velocity of DNA during Translocation through a Solid-State Nanopore. <i>Nano Letters</i> , 2015, 15, 732-737.	9.1	98
123	Probing DNA Translocations with Inplane Current Signals in a Graphene Nanoribbon with a Nanopore. <i>ACS Nano</i> , 2018, 12, 2623-2633.	14.6	98
124	Control of Shape and Material Composition of Solid-State Nanopores. <i>Nano Letters</i> , 2009, 9, 479-484.	9.1	95
125	Bridging-induced phase separation induced by cohesin SMC protein complexes. <i>Science Advances</i> , 2021, 7, .	10.3	95
126	Spontaneous resistance switching and low-frequency noise in quantum point contacts. <i>Physical Review Letters</i> , 1991, 66, 2148-2151.	7.8	94



#	ARTICLE	IF	CITATIONS
127	Toward Single-Enzyme Molecule Electrochemistry: [NiFe]-Hydrogenase Protein Film Voltammetry at Nanoelectrodes. <i>ACS Nano</i> , 2008, 2, 2497-2504.	14.6	94
128	pH-Controlled Coacervate Membrane Interactions within Liposomes. <i>ACS Nano</i> , 2020, 14, 4487-4498.	14.6	94
129	Transport through the interface between a semiconducting carbon nanotube and a metal electrode. <i>Physical Review B</i> , 2002, 66, .	3.2	92
130	Mechanism of Homology Recognition in DNA Recombination from Dual-Molecule Experiments. <i>Molecular Cell</i> , 2012, 46, 616-624.	9.7	92
131	Non-Bias-Limited Tracking of Spherical Particles, Enabling Nanometer Resolution at Low Magnification. <i>Biophysical Journal</i> , 2012, 102, 2362-2371.	0.5	92
132	Plasmonic Nanopore for Electrical Profiling of Optical Intensity Landscapes. <i>Nano Letters</i> , 2013, 13, 1029-1033.	9.1	91
133	Electronic Transport Spectroscopy of Carbon Nanotubes in a Magnetic Field. <i>Physical Review Letters</i> , 2005, 94, 156802.	7.8	90
134	High Rectifying Efficiencies of Microtubule Motility on Kinesin-Coated Gold Nanostructures. <i>Nano Letters</i> , 2005, 5, 1117-1122.	9.1	90
135	Symmetry and scale orient Min protein patterns in shaped bacterial sculptures. <i>Nature Nanotechnology</i> , 2015, 10, 719-726.	31.5	90
136	Electronic excitation spectrum of metallic carbon nanotubes. <i>Physical Review B</i> , 2005, 71, .	3.2	88
137	Label-Free Detection of Post-translational Modifications with a Nanopore. <i>Nano Letters</i> , 2019, 19, 7957-7964.	9.1	88
138	Optimizing the Signal-to-Noise Ratio for Biosensing with Carbon Nanotube Transistors. <i>Nano Letters</i> , 2009, 9, 377-382.	9.1	87
139	Mechanical Division of Cell-Sized Liposomes. <i>ACS Nano</i> , 2018, 12, 2560-2568.	14.6	87
140	Low-frequency noise in solid-state nanopores. <i>Nanotechnology</i> , 2009, 20, 095501.	2.6	83
141	Detection of CRISPR-dCas9 on DNA with Solid-State Nanopores. <i>Nano Letters</i> , 2018, 18, 6469-6474.	9.1	83
142	The coiled-coil of the human Rad50 DNA repair protein contains specific segments of increased flexibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7581-7586.	7.1	82
143	Homologous Recombination in Real Time: DNA Strand Exchange by RecA. <i>Molecular Cell</i> , 2008, 30, 530-538.	9.7	82
144	Tailoring the appearance: what will synthetic cells look like?. <i>Current Opinion in Biotechnology</i> , 2018, 51, 47-56.	6.6	82

#	ARTICLE	IF	CITATIONS
145	High-Speed AFM Reveals the Dynamics of Single Biomolecules at the Nanometer Scale. <i>Cell</i> , 2011, 147, 979-982.	28.9	81
146	Condensin Smc2-Smc4 Dimers Are Flexible and Dynamic. <i>Cell Reports</i> , 2016, 14, 1813-1818.	6.4	79
147	Nanopore Tomography of a Laser Focus. <i>Nano Letters</i> , 2005, 5, 2253-2256.	9.1	78
148	Microtubule curvatures under perpendicular electric forces reveal a low persistence length. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 7941-7946.	7.1	78
149	Dynamics of RecA filaments on single-stranded DNA. <i>Nucleic Acids Research</i> , 2009, 37, 4089-4099.	14.5	78
150	Ionic Permeability and Mechanical Properties of DNA Origami Nanoplates on Solid-State Nanopores. <i>ACS Nano</i> , 2014, 8, 35-43.	14.6	78
151	Resolving Chemical Modifications to a Single Amino Acid within a Peptide Using a Biological Nanopore. <i>ACS Nano</i> , 2019, 13, 13668-13676.	14.6	76
152	Fluorescent Human RAD51 Reveals Multiple Nucleation Sites and Filament Segments Tightly Associated along a Single DNA Molecule. <i>Structure</i> , 2007, 15, 599-609.	3.3	73
153	Mechanically controlled quantum interference in graphene break junctions. <i>Nature Nanotechnology</i> , 2018, 13, 1126-1131.	31.5	73
154	Electrokinetic Concentration of DNA Polymers in Nanofluidic Channels. <i>Nano Letters</i> , 2010, 10, 765-772.	9.1	71
155	Nanofabricated structures and microfluidic devices for bacteria: from techniques to biology. <i>Chemical Society Reviews</i> , 2016, 45, 268-280.	38.1	71
156	Real-time detection of condensin-driven <scp>DNA</scp> compaction reveals a multistep binding mechanism. <i>EMBO Journal</i> , 2017, 36, 3448-3457.	7.8	71
157	Electron-beam-induced deformations of SiO <sub>2</sub> nanostructures. <i>Journal of Applied Physics</i> , 2005, 98, 014307.	2.5	69
158	Mechanical Trapping of DNA in a Double-Nanopore System. <i>Nano Letters</i> , 2016, 16, 8021-8028.	9.1	68
159	Shape and Size Control of Artificial Cells for Bottom-Up Biology. <i>ACS Nano</i> , 2019, 13, 5439-5450.	14.6	68
160	Experimental Observation of Nonlinear Ionic Transport at the Nanometer Scale. <i>Nano Letters</i> , 2006, 6, 2531-2535.	9.1	67
161	SDS-assisted protein transport through solid-state nanopores. <i>Nanoscale</i> , 2017, 9, 11685-11693.	5.6	67
162	Nano-Optical Tweezing of Single Proteins in Plasmonic Nanopores. <i>Small Methods</i> , 2019, 3, 1800465.	8.6	67

#	ARTICLE	IF	CITATIONS
163	Nanopore electro-osmotic trap for the label-free study of single proteins and their conformations. <i>Nature Nanotechnology</i> , 2021, 16, 1244-1250.	31.5	67
164	Electrophoretic Force on a Protein-Coated DNA Molecule in a Solid-State Nanopore. <i>Nano Letters</i> , 2009, 9, 4441-4445.	9.1	66
165	Spatial Structure Facilitates Cooperation in a Social Dilemma: Empirical Evidence from a Bacterial Community. <i>PLoS ONE</i> , 2013, 8, e77042.	2.5	66
166	Double Barrel Nanopores as a New Tool for Controlling Single-Molecule Transport. <i>Nano Letters</i> , 2018, 18, 2738-2745.	9.1	66
167	Sculpting Nanoelectrodes with a Transmission Electron Beam for Electrical and Geometrical Characterization of Nanoparticles. <i>Nano Letters</i> , 2005, 5, 549-553.	9.1	65
168	Active Delivery of Single DNA Molecules into a Plasmonic Nanopore for Label-Free Optical Sensing. <i>Nano Letters</i> , 2018, 18, 8003-8010.	9.1	65
169	Lithography-based fabrication of nanopore arrays in freestanding SiN and graphene membranes. <i>Nanotechnology</i> , 2018, 29, 145302.	2.6	64
170	Magnetic Forces and DNA Mechanics in Multiplexed Magnetic Tweezers. <i>PLoS ONE</i> , 2012, 7, e41432.	2.5	64
171	DNA sequence encodes the position of DNA supercoils. <i>ELife</i> , 2018, 7, .	6.0	64
172	Detection of Nucleosomal Substructures using Solid-State Nanopores. <i>Nano Letters</i> , 2012, 12, 3180-3186.	9.1	63
173	Single-molecule sensing with nanopores. <i>Physics Today</i> , 2015, 68, 40-46.	0.3	63
174	Motor step size and ATP coupling efficiency of the dsDNA translocase EcoR124I. <i>EMBO Journal</i> , 2008, 27, 1388-1398.	7.8	62
175	Electrical Transport Through Single-Wall Carbon Nanotubes. , 2001, , 147-171.		61
176	Self-Aligned Plasmonic Nanopores by Optically Controlled Dielectric Breakdown. <i>Nano Letters</i> , 2015, 15, 7112-7117.	9.1	61
177	The condensin holocomplex cycles dynamically between open and collapsed states. <i>Nature Structural and Molecular Biology</i> , 2020, 27, 1134-1141.	8.2	59
178	Mapping out Min protein patterns in fully confined fluidic chambers. <i>ELife</i> , 2016, 5, .	6.0	59
179	When a helicase is not a helicase: dsDNA tracking by the motor protein EcoR124I. <i>EMBO Journal</i> , 2006, 25, 2230-2239.	7.8	57
180	Persistence Length Measurements from Stochastic Single-Microtubule Trajectories. <i>Nano Letters</i> , 2007, 7, 3138-3144.	9.1	57

#	ARTICLE	IF	CITATIONS
181	Single-molecule studies of nucleic acid motors. <i>Current Opinion in Structural Biology</i> , 2007, 17, 80-86.	5.7	57
182	Activated Dynamics in the Two-Dimensional Ising Spin-Glass $Rb_2Cu_1 \times CoxF_4$ . <i>Physical Review Letters</i> , 1988, 61, 1780-1783.	7.8	56
183	Measurement of the Docking Time of a DNA Molecule onto a Solid-State Nanopore. <i>Nano Letters</i> , 2012, 12, 4159-4163.	9.1	56
184	Dividing the Archaeal Way: The Ancient Cdv Cell-Division Machinery. <i>Frontiers in Microbiology</i> , 2018, 9, 174.	3.5	56
185	Electrical Docking of Microtubules for Kinesin-Driven Motility in Nanostructures. <i>Nano Letters</i> , 2005, 5, 235-241.	9.1	55
186	Multistability and dynamic transitions of intracellular Min protein patterns. <i>Molecular Systems Biology</i> , 2016, 12, 873.	7.2	54
187	Human centromeric CENP-A chromatin is a homotypic, octameric nucleosome at all cell cycle points. <i>Journal of Cell Biology</i> , 2017, 216, 607-621.	5.2	53
188	FtsZ treadmilling is essential for Z-ring condensation and septal constriction initiation in <i>Bacillus subtilis</i> cell division. <i>Nature Communications</i> , 2021, 12, 2448.	12.8	53
189	Towards a synthetic cell cycle. <i>Nature Communications</i> , 2021, 12, 4531.	12.8	53
190	Electrophoresis of individual microtubules in microchannels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 7770-7775.	7.1	52
191	Intercalation-Based Single-Molecule Fluorescence Assay To Study DNA Supercoil Dynamics. <i>Nano Letters</i> , 2016, 16, 4699-4707.	9.1	52
192	Charge Noise in Liquid-Gated Single-Wall Carbon Nanotube Transistors. <i>Nano Letters</i> , 2008, 8, 685-688.	9.1	51
193	Magnetic order in the two-dimensional randomly mixed ferromagnet-antiferromagnet $Rb_2Cu_1 \times CoxF_4$ . <i>Physical Review B</i> , 1988, 38, 11512-11522.	3.2	50
194	Three-terminal scanning tunneling spectroscopy of suspended carbon nanotubes. <i>Physical Review B</i> , 2005, 72, .	3.2	49
195	Lithographically Fabricated Nanopore-Based Electrodes for Electrochemistry. <i>Analytical Chemistry</i> , 2005, 77, 1911-1915.	6.5	48
196	Nucleosome Assembly Dynamics Involve Spontaneous Fluctuations in the Handedness of Tetrasomes. <i>Cell Reports</i> , 2015, 10, 216-225.	6.4	48
197	$1/f$ noise in solid-state nanopores is governed by access and surface regions. <i>Nanotechnology</i> , 2019, 30, 395202.	2.6	48
198	Direct imaging of the circular chromosome in a live bacterium. <i>Nature Communications</i> , 2019, 10, 2194.	12.8	48

#	ARTICLE	IF	CITATIONS
199	Cell Boundary Confinement Sets the Size and Position of the E. coli Chromosome. <i>Current Biology</i> , 2019, 29, 2131-2144.e4.	3.9	47
200	Bacterial predator-prey dynamics in microscale patchy landscapes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152154.	2.6	46
201	A microfluidic platform for the characterisation of membrane active antimicrobials. <i>Lab on A Chip</i> , 2019, 19, 837-844.	6.0	46
202	Membrane Tension-Mediated Growth of Liposomes. <i>Small</i> , 2019, 15, e1902898.	10.0	45
203	Reconstitution of Ultrawide DNA Origami Pores in Liposomes for Transmembrane Transport of Macromolecules. <i>ACS Nano</i> , 2021, 15, 12768-12779.	14.6	44
204	Optimized cDICE for Efficient Reconstitution of Biological Systems in Giant Unilamellar Vesicles. <i>ACS Synthetic Biology</i> , 2021, 10, 1690-1702.	3.8	44
205	Finite-size effects on the vortex-glass transition in thin $\text{YBa}_2\text{Cu}_3\text{O}_7$ films. <i>Physical Review B</i> , 1995, 52, 4536-4544.	3.2	43
206	Direct observation of confined states in metallic single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2003, 83, 1011-1013.	3.3	43
207	Scanning tunneling spectroscopy of suspended single-wall carbon nanotubes. <i>Applied Physics Letters</i> , 2004, 84, 4280-4282.	3.3	43
208	Torsional regulation of hRPA-induced unwinding of double-stranded DNA. <i>Nucleic Acids Research</i> , 2010, 38, 4133-4142.	14.5	43
209	Divided we stand: splitting synthetic cells for their proliferation. <i>Systems and Synthetic Biology</i> , 2014, 8, 249-269.	1.0	43
210	Nutrient-responsive regulation determines biodiversity in a colicin-mediated bacterial community. <i>BMC Biology</i> , 2014, 12, 68.	3.8	42
211	CRISPR-mediated control of the bacterial initiation of replication. <i>Nucleic Acids Research</i> , 2016, 44, 3801-3810.	14.5	41
212	Density-dependent adaptive resistance allows swimming bacteria to colonize an antibiotic gradient. <i>ISME Journal</i> , 2016, 10, 30-38.	9.8	41
213	Copper-free click chemistry for attachment of biomolecules in magnetic tweezers. <i>BMC Biophysics</i> , 2015, 8, 9.	4.4	40
214	Superconducting phase of $\text{YBa}_2\text{Cu}_3\text{O}_7$ films in high magnetic fields: Vortex glass or Bose glass. <i>Physical Review B</i> , 1993, 48, 16826-16829.	3.2	39
215	A mechanism for cutting carbon nanotubes with a scanning tunneling microscope. <i>European Physical Journal B</i> , 2000, 17, 301-308.	1.5	39
216	Distinct Roles for Condensin's Two ATPase Sites in Chromosome Condensation. <i>Molecular Cell</i> , 2019, 76, 724-737.e5.	9.7	39

#	ARTICLE	IF	CITATIONS
217	Simultaneous orientation and 3D localization microscopy with a Vortex point spread function. <i>Nature Communications</i> , 2021, 12, 5934.	12.8	39
218	Temperature dependence of DNA translocations through solid-state nanopores. <i>Nanotechnology</i> , 2015, 26, 234004.	2.6	38
219	Photoresistance Switching of Plasmonic Nanopores. <i>Nano Letters</i> , 2015, 15, 776-782.	9.1	38
220	Torque-limited RecA polymerization on dsDNA. <i>Nucleic Acids Research</i> , 2005, 33, 2099-2105.	14.5	37
221	Spatial structure of disordered proteins dictates conductance and selectivity in nuclear pore complex mimics. <i>ELife</i> , 2018, 7, .	6.0	37
222	Logic circuits based on carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 16, 42-46.	2.7	36
223	Polymyxin-Coated Au and Carbon Nanotube Electrodes for Stable [NiFe]-Hydrogenase Film Voltammetry. <i>Langmuir</i> , 2008, 24, 5925-5931.	3.5	36
224	The idiosyncrasy of spatial structure in bacterial competition. <i>BMC Research Notes</i> , 2015, 8, 245.	1.4	36
225	An Integrated Microfluidic Platform for Quantifying Drug Permeation across Biomimetic Vesicle Membranes. <i>Molecular Pharmaceutics</i> , 2019, 16, 2494-2501.	4.6	36
226	Scanning tunneling spectroscopy of C60 adsorbed on Si(-)(2Å-1). <i>Surface Science</i> , 2002, 498, 237-243.	1.9	35
227	A designer FG-Nup that reconstitutes the selective transport barrier of the nuclear pore complex. <i>Nature Communications</i> , 2021, 12, 2010.	12.8	35
228	Dynamics of Nucleosomal Structures Measured by High-Speed Atomic Force Microscopy. <i>Small</i> , 2015, 11, 976-984.	10.0	34
229	Nonlinear Hall resistivity in YBa2Cu3O7 films near the vortex-glass transition. <i>Physical Review Letters</i> , 1993, 71, 3858-3861.	7.8	33
230	Thin film growth of the charge density wave oxide Rb0.30MoO3. <i>Applied Physics Letters</i> , 1996, 68, 3823-3825.	3.3	33
231	STM atomic resolution images of single-wall carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 66, S153-S155.	2.3	33
232	Correlated Tunneling in Intramolecular Carbon Nanotube Quantum Dots. <i>Physical Review Letters</i> , 2002, 89, 196402.	7.8	33
233	Dynamics of initiation, termination and reinitiation of DNA translocation by the motor protein EcoR124I. <i>EMBO Journal</i> , 2005, 24, 4188-4197.	7.8	33
234	Non-equilibrium folding of individual DNA molecules recaptured up to 1000 times in a solid state nanopore. <i>Nanotechnology</i> , 2013, 24, 475101.	2.6	33

#	ARTICLE	IF	CITATIONS
235	Direct observation of independently moving replisomes in <i>Escherichia coli</i> . <i>Nature Communications</i> , 2020, 11, 3109.	12.8	33
236	Multi-color imaging of the bacterial nucleoid and division proteins with blue, orange, and near-infrared fluorescent proteins. <i>Frontiers in Microbiology</i> , 2015, 6, 607.	3.5	32
237	Static critical behavior of the two-dimensional Ising spin glass $Rb_2Cu_1 \times Co_x F_4$ . <i>Physical Review B</i> , 1988, 38, 8985-8991.	3.2	31
238	Scanning tunneling spectroscopy on crossed carbon nanotubes. <i>Physical Review B</i> , 2002, 65, .	3.2	31
239	Velocity Modulation of Microtubules in Electric Fields. <i>Nano Letters</i> , 2008, 8, 4217-4220.	9.1	31
240	Rapid manufacturing of low-noise membranes for nanopore sensors by <i>trans</i> -chip illumination lithography. <i>Nanotechnology</i> , 2012, 23, 475302.	2.6	31
241	Integrating Sub- $\epsilon_3$ nm Plasmonic Gaps into Solid-State Nanopores. <i>Small</i> , 2018, 14, e1703307.	10.0	31
242	Initiation of translocation by Type I restriction-modification enzymes is associated with a short DNA extrusion. <i>Nucleic Acids Research</i> , 2004, 32, 6540-6547.	14.5	30
243	Reversible Immobilization of Proteins in Sensors and Solid-State Nanopores. <i>Small</i> , 2018, 14, e1703357.	10.0	30
244	Probing nanomotion of single bacteria with graphene drums. <i>Nature Nanotechnology</i> , 2022, 17, 637-642.	31.5	30
245	AutoStepfinder: A fast and automated step detection method for single-molecule analysis. <i>Patterns</i> , 2021, 2, 100256.	5.9	29
246	NAP1-Assisted Nucleosome Assembly on DNA Measured in Real Time by Single-Molecule Magnetic Tweezers. <i>PLoS ONE</i> , 2012, 7, e46306.	2.5	29
247	Condensin extrudes DNA loops in steps up to hundreds of base pairs that are generated by ATP binding events. <i>Nucleic Acids Research</i> , 2022, 50, 820-832.	14.5	29
248	Charge-Density-Wave Current Conversion in Submicron $NbSe_3$ Wires. <i>Physical Review Letters</i> , 2000, 84, 538-541.	7.8	28
249	Probing Macrophage Activity with Carbon Nanotube Sensors. <i>Small</i> , 2009, 5, 2528-2532.	10.0	27
250	Translocation of Single-Wall Carbon Nanotubes Through Solid-State Nanopores. <i>Nano Letters</i> , 2011, 11, 2446-2450.	9.1	27
251	CENP-B-mediated DNA loops regulate activity and stability of human centromeres. <i>Molecular Cell</i> , 2022, 82, 1751-1767.e8.	9.7	27
252	Dimensionality crossover of the superconducting-normal transition in $YBa_2Cu_3O_{7-x}$ thin films both at high magnetic fields and at zero field. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 185-189, 1799-1800.	1.2	26

#	ARTICLE	IF	CITATIONS
253	STM imaging and spectroscopy of single copperphthalocyanine molecules. <i>Synthetic Metals</i> , 1997, 84, 853-854.	3.9	26
254	Direct observation of end resection by RecBCD during double-stranded DNA break repair in vivo. <i>Nucleic Acids Research</i> , 2018, 46, 1821-1833.	14.5	26
255	Diagnosing point-of-care diagnostics for neglected tropical diseases. <i>PLoS Neglected Tropical Diseases</i> , 2021, 15, e0009405.	3.0	26
256	Bulk-surface coupling identifies the mechanistic connection between Min-protein patterns in vivo and in vitro. <i>Nature Communications</i> , 2021, 12, 3312.	12.8	26
257	Counterintuitive DNA Sequence Dependence in Supercoiling-Induced DNA Melting. <i>PLoS ONE</i> , 2015, 10, e0141576.	2.5	25
258	Experimental phase diagram of negatively supercoiled DNA measured by magnetic tweezers and fluorescence. <i>Nanoscale</i> , 2015, 7, 3205-3216.	5.6	25
259	Nanopores: a versatile tool to study protein dynamics. <i>Essays in Biochemistry</i> , 2021, 65, 93-107.	4.7	25
260	ParB proteins can bypass DNA-bound roadblocks via dimer-dimer recruitment. <i>Science Advances</i> , 2022, 8, .	10.3	25
261	Low-frequency noise of quantum point contacts in the ballistic and quantum Hall regime. <i>Physica B: Condensed Matter</i> , 1991, 175, 213-216.	2.7	24
262	On-chip density-based purification of liposomes. <i>Biomicrofluidics</i> , 2017, 11, 034106.	2.4	24
263	Palladium zero-mode waveguides for optical single-molecule detection with nanopores. <i>Nanotechnology</i> , 2021, 32, 18LT01.	2.6	24
264	$Rb_2Cu_1-xCoxF_4$ , a two-dimensional Ising spin glass. <i>Journal of Applied Physics</i> , 1988, 63, 4334-4336.	2.5	23
265	Atomic force microscopy shows that vaccinia topoisomerase IB generates filaments on DNA in a cooperative fashion. <i>Nucleic Acids Research</i> , 2005, 33, 5945-5953.	14.5	23
266	FtsZ-Induced Shape Transformation of Coacervates. <i>Advanced Biology</i> , 2018, 2, 1800136.	3.0	23
267	Voltage noise of $YBa_2Cu_3O_{7-x}$ films in the vortex-liquid phase. <i>Physica C: Superconductivity and Its Applications</i> , 1995, 247, 67-73.	1.2	22
268	Translocation of DNA through Ultrathin Nanoslits. <i>Advanced Materials</i> , 2021, 33, e2007682.	21.0	22
269	Condensin-driven loop extrusion on supercoiled DNA. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 719-727.	8.2	21
270	Single-Molecule Observation of Anomalous Electrohydrodynamic Orientation of Microtubules. <i>Physical Review Letters</i> , 2008, 101, 118301.	7.8	20



#	ARTICLE	IF	CITATIONS
271	The supercoiling state of DNA determines the handedness of both H3 and CENP-A nucleosomes. <i>Nanoscale</i> , 2017, 9, 1862-1870.	5.6	20
272	Distortion of DNA Origami on Graphene Imaged with Advanced TEM Techniques. <i>Small</i> , 2017, 13, 1700876.	10.0	19
273	Mechanisms for Chromosome Segregation in Bacteria. <i>Frontiers in Microbiology</i> , 2021, 12, 685687.	3.5	19
274	Specific Vectorial Immobilization of Oligonucleotide-Modified Yeast Cytochrome c on Carbon Nanotubes. <i>ChemPhysChem</i> , 2006, 7, 1705-1709.	2.1	18
275	Simultaneous Electrical Transport and Scanning Tunneling Spectroscopy of Carbon Nanotubes. <i>Nano Letters</i> , 2007, 7, 2937-2941.	9.1	18
276	Scanning a DNA Molecule for Bound Proteins Using Hybrid Magnetic and Optical Tweezers. <i>PLoS ONE</i> , 2013, 8, e65329.	2.5	18
277	DNA nanopore translocation in glutamate solutions. <i>Nanoscale</i> , 2015, 7, 13605-13609.	5.6	18
278	Studying phase separation in confinement. <i>Current Opinion in Colloid and Interface Science</i> , 2021, 52, 101419.	7.4	18
279	CENP-A and H3 Nucleosomes Display a Similar Stability to Force-Mediated Disassembly. <i>PLoS ONE</i> , 2016, 11, e0165078.	2.5	18
280	Sliding charge-density-wave transport in micron-sized wires of Rb <sub>0.30</sub> MoO <sub>3</sub> . <i>Physical Review B</i> , 1999, 60, 5287-5294.	3.2	17
281	The Interrelationship of Helicase and Nuclease Domains during DNA Translocation by the Molecular Motor EcoR124I. <i>Journal of Molecular Biology</i> , 2008, 384, 1273-1286.	4.2	17
282	How we made the carbon nanotube transistor. <i>Nature Electronics</i> , 2018, 1, 518-518.	26.0	17
283	Thin films of the charge-density-wave oxide Rb <sub>0.30</sub> MoO <sub>3</sub> by pulsed-laser deposition. <i>Physical Review B</i> , 1997, 55, 4817-4824.	3.2	16
284	Electro-Mechanical Conductance Modulation of a Nanopore Using a Removable Gate. <i>ACS Nano</i> , 2019, 13, 2398-2409.	14.6	16
285	Genome-in-a-Box: Building a Chromosome from the Bottom Up. <i>ACS Nano</i> , 2021, 15, 111-124.	14.6	16
286	Electrical transport in monolayers of phthalocyanine molecular wires and afm imaging of a single wire bridging two electrodes. <i>Synthetic Metals</i> , 1997, 84, 733-734.	3.9	14
287	Integration of a gate electrode into carbon nanotube devices for scanning tunneling microscopy. <i>Applied Physics Letters</i> , 2005, 86, 112106.	3.3	13
288	Comparing the weak and strong gate-coupling regimes for nanotube and graphene transistors. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009, 3, 190-192.	2.4	13

#	ARTICLE	IF	CITATIONS
289	Comparing the Assembly and Handedness Dynamics of (H3.3-H4) <sub>2</sub> Tetrasomes to Canonical Tetrasomes. PLoS ONE, 2015, 10, e0141267.	2.5	13
290	FIB-milled plasmonic nanoapertures allow for long trapping times of individual proteins. IScience, 2021, 24, 103237.	4.1	13
291	Proton magnetic resonance spectra and stereochemistry of ammine nitrocobalt(III) complexes. Inorganica Chimica Acta, 1976, 17, 154-156.	2.4	12
292	Effect of the BRCA2 CTRD domain on RAD51 filaments analyzed by an ensemble of single molecule techniques. Nucleic Acids Research, 2011, 39, 6558-6567.	14.5	12
293	DNA sequence-directed cooperation between nucleoid-associated proteins. IScience, 2021, 24, 102408.	4.1	12
294	CRISPR-dCas9 based DNA detection scheme for diagnostics in resource-limited settings. Nanoscale, 2022, 14, 1885-1895.	5.6	12
295	Transport receptor occupancy in nuclear pore complex mimics. Nano Research, 2022, 15, 9689-9703.	10.4	12
296	Electrical transport through micro-fabricated charge-density-wave structures. Physics-Uspexhi, 1998, 41, 167-171.	2.2	11
297	Direct measurements of electrical transport through DNA molecules. AIP Conference Proceedings, 2000, , .	0.4	11
298	Through-membrane electron-beam lithography for ultrathin membrane applications. Applied Physics Letters, 2017, 111, .	3.3	11
299	NMR study of local magnetizations in diluted two-dimensional antiferromagnets. Physical Review B, 1985, 32, 5785-5792.	3.2	10
300	Deposition and atomic force microscopy of individual phthalocyanine polymers between nanofabricated electrodes. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1997, 15, 586.	1.6	10
301	Electrical Transport Study of Phenylene-Based $\pi$ -Conjugated Molecules in a Three-Terminal Geometry. Annals of the New York Academy of Sciences, 2003, 1006, 122-132.	3.8	10
302	Joining of long double-stranded RNA molecules through controlled overhangs. Nucleic Acids Research, 2004, 32, e140-e140.	14.5	10
303	Skewed Brownian Fluctuations in Single-Molecule Magnetic Tweezers. PLoS ONE, 2014, 9, e108271.	2.5	10
304	New technologies for DNA analysis – a review of the READNA Project. New Biotechnology, 2016, 33, 311-330.	4.4	10
305	Catching DNA with hoops – biophysical approaches to clarify the mechanism of SMC proteins. Nature Structural and Molecular Biology, 2017, 24, 1012-1020.	8.2	10
306	Visualization of unstained DNA nanostructures with advanced in-focus phase contrast TEM techniques. Scientific Reports, 2019, 9, 7218.	3.3	10

#	ARTICLE	IF	CITATIONS
307	Inserting and Manipulating DNA in a Nanopore with Optical Tweezers. <i>Methods in Molecular Biology</i> , 2009, 544, 95-112.	0.9	10
308	Synthetic life on a chip. <i>Emerging Topics in Life Sciences</i> , 2019, 3, 559-566.	2.6	10
309	Comment on "Direct and Real-Time Visualization of the Disassembly of a Single RecA-DNA-ATP $\gamma$ S Complex Using AFM Imaging in Fluid". <i>Nano Letters</i> , 2006, 6, 3000-3002.	9.1	9
310	Monte Carlo Simulations of Protein Assembly, Disassembly, and Linear Motion on DNA. <i>Biophysical Journal</i> , 2008, 95, 4560-4569.	0.5	9
311	A Mechanically Tunable Quantum Dot in a Graphene Break Junction. <i>Nano Letters</i> , 2020, 20, 4924-4931.	9.1	9
312	Logic circuits with carbon nanotubes. <i>AIP Conference Proceedings</i> , 2002, , .	0.4	9
313	Epitaxial film growth of the charge-density-wave conductor Rb <sub>0.30</sub> MoO <sub>3</sub> on SrTiO <sub>3</sub> (001). <i>Physical Review B</i> , 1998, 57, 12530-12535.	3.2	8
314	High-resolution imaging of bacterial spatial organization with vertical cell imaging by nanostructured immobilization (VerCINI). <i>Nature Protocols</i> , 2022, 17, 847-869.	12.0	8
315	Lithographically patterned wires of the charge-density-wave conductor Rb <sub>0.30</sub> MoO <sub>3</sub> . <i>Journal of Applied Physics</i> , 1999, 86, 4440-4445.	2.5	7
316	Solid-state nanopores. , 2009, , 60-66.		7
317	The NEOtrap " en route with a new single-molecule technique. <i>IScience</i> , 2021, 24, 103007.	4.1	7
318	The archaeal division protein CdvB1 assembles into polymers that are depolymerized by CdvC. <i>FEBS Letters</i> , 2022, 596, 958-969.	2.8	7
319	Competition between ammonia and the nitrite ion as leaving groups in cobalt(III) complexes. I. Hydrolysis of the nitropentaamminecobalt(III) ion in ammonia buffers. <i>Inorganic Chemistry</i> , 1976, 15, 1025-1030.	4.0	6
320	Low-temperature current-voltage characteristics of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> films in a magnetic field: direct evidence for a vortex-glass phase. <i>Cryogenics</i> , 1993, 33, 129-132.	1.7	6
321	Electron Addition and Excitation Spectra of Individual Single-wall Carbon Nanotubes. <i>Journal of Low Temperature Physics</i> , 2000, 118, 495-507.	1.4	6
322	Periodic Modulations of Optical Tweezers Near Solid-State Membranes. <i>Small</i> , 2013, 9, 679-684.	10.0	6
323	Bacteria "paper, a versatile platform to study bacterial ecology. <i>Ecology Letters</i> , 2019, 22, 1316-1323.	6.4	6
324	Manipulation and Imaging of Individual Single-Walled Carbon Nanotubes with an Atomic Force Microscope. <i>Advanced Materials</i> , 2000, 12, 1299-1302.	21.0	6

#	ARTICLE	IF	CITATIONS
325	Monte Carlo investigation of diluted antiferromagnets in high magnetic fields. Solid State Communications, 1985, 54, 887-889.	1.9	5
326	Breakup of long-range order in the diluted antiferromagnet $K_2Mn_xZn_{1-x}F_4$ in zero magnetic field. Physical Review B, 1987, 35, 7157-7160.	3.2	5
327	Magnetic field effects on switching noise in a quantum point contact. Physical Review B, 1992, 46, 15523-15525.	3.2	5
328	Photolithographic patterning of the charge-density-wave conductor $Rb_{0.30}MoO_3$ . Synthetic Metals, 1997, 86, 1781-1784.	3.9	5
329	Submicron structures of the charge-density-wave conductor $NbSe_3$ . Synthetic Metals, 1999, 103, 2612-2615.	3.9	5
330	Electronic transport in monolayers of phthalocyanine polymers. Nanotechnology, 2003, 14, 1043-1050.	2.6	5
331	Systems and synthetic biology approaches to cell division. Systems and Synthetic Biology, 2014, 8, 173-178.	1.0	5
332	Intercalating Electron Dyes for TEM Visualization of DNA at the Single-Molecule Level. ChemBioChem, 2019, 20, 822-830.	2.6	5
333	Optical investigations of the collective transport in CDW-films. Physica B: Condensed Matter, 1998, 244, 103-106.	2.7	4
334	Scanning tunneling spectroscopy on a carbon nanotube buckle. AIP Conference Proceedings, 2001, , .	0.4	4
335	Towards DNA-Mediated Self Assembly of Carbon Nanotube Molecular Devices. AIP Conference Proceedings, 2002, , .	0.4	4
336	Synthesizing the Future. ACS Chemical Biology, 2008, 3, 10-12.	3.4	4
337	End-joining long nucleic acid polymers. Nucleic Acids Research, 2008, 36, e104-e104.	14.5	4
338	Nanoscience and Nanotechnology Cross Borders. ACS Nano, 2017, 11, 1123-1126.	14.6	4
339	Annealing helicase HARP closes RPA-stabilized DNA bubbles non-processively. Nucleic Acids Research, 2017, 45, 4687-4695.	14.5	4
340	Competition between ammonia and the nitrite ion as leaving groups in cobalt(III) complexes. 3. Hydrolysis of nitroamminecobalt(III) complexes. Inorganic Chemistry, 1976, 15, 2370-2375.	4.0	3
341	2D-3D crossover effects on the vortex-glass phase transition in thin $YBa_2Cu_3O_{7-x}$ films. Physica B: Condensed Matter, 1994, 194-196, 1911-1912.	2.7	3
342	Electrical transport through ultrathin ordered $K_3C_6O$ films on Si. Carbon, 2000, 38, 1647-1651.	10.3	3

#	ARTICLE	IF	CITATIONS
343	Measuring Single-Wall Carbon Nanotubes with Solid-State Nanopores. <i>Methods in Molecular Biology</i> , 2012, 870, 227-239.	0.9	3
344	Reply to Comment on "Modeling the conductance and DNA blockade of solid-state nanopores". <i>Nanotechnology</i> , 2012, 23, 088002.	2.6	3
345	A Simple Self-Calibrating Method To Measure the Height of Fluorescent Molecules and Beads at Nanoscale Resolution. <i>Nano Letters</i> , 2014, 14, 4469-4475.	9.1	3
346	Single-Molecule Ionic and Optical Sensing with Nanoapertures. <i>Nanostructure Science and Technology</i> , 2022, , 367-387.	0.1	3
347	Orientation of the charge-density-wave chains in thin films of Rb <sub>0.30</sub> MoO <sub>3</sub> . <i>Synthetic Metals</i> , 1997, 86, 2193-2194.	3.9	2
348	A Designer FG-Nup that Reconstitutes the Selective Transport Barrier of the Nuclear Pore Complex. <i>Biophysical Journal</i> , 2020, 118, 341a-342a.	0.5	2
349	Publisher's Note: Electronic excitation spectrum of metallic carbon nanotubes [Phys. Rev. B71, 153402 (2005)]. <i>Physical Review B</i> , 2005, 71, .	3.2	1
350	In Vitro Measurements of Single-Molecule Transport Across an Individual Biomimetic Nuclear Pore Complex. <i>Biophysical Journal</i> , 2011, 100, 521a.	0.5	1
351	Single-Molecule Protein Fingerprinting using Nanopores. <i>Biophysical Journal</i> , 2019, 116, 316a.	0.5	1
352	High Bandwidth Sensing of Single Protein Dynamics using Nanopores and DNA Origami. <i>Biophysical Journal</i> , 2019, 116, 341a-342a.	0.5	1
353	Single-molecule Protein Sequencing using Biological Nanopores. <i>Biophysical Journal</i> , 2020, 118, 163a.	0.5	1
354	Self-Assembly Experiments with PNA-Derivatized Carbon Nanotubes. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	0
355	A Few Electron-Hole Semiconducting Carbon Nanotube Quantum Dot. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	0
356	Tunable Orbital Pseudospin and Multi-level Kondo Effect in Carbon Nanotubes. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
357	AFM Tip-Induced Dissociation of RecA-dsDNA Filaments. <i>Nano Letters</i> , 2007, 7, 1112-1112.	9.1	0
358	Note: Interference technique for minimally invasive, subnanometer, microsecond measurements of displacements. <i>Review of Scientific Instruments</i> , 2010, 81, 016103.	1.3	0
359	Molecular Detection and Force Spectroscopy in Solid-State Nanopores with Integrated Optical Tweezers. , 2011, , 35-49.		0
360	Annealing Helicase HARP: A Single Molecule Study. <i>Biophysical Journal</i> , 2011, 100, 240a.	0.5	0

#	ARTICLE	IF	CITATIONS
361	Translocation of DNA-Protein Complexes through Solid-State Nanopores. Biophysical Journal, 2012, 102, 429a.	0.5	0
362	Nucleosome Detection using Solid State Nanopores. Biophysical Journal, 2012, 102, 730a.	0.5	0
363	Translocating Single-Stranded DNA through Crystalline Graphene Nanopores. Biophysical Journal, 2012, 102, 728a.	0.5	0
364	A Microfluidic Platform to Produce and Manipulate Liposomes - Towards Synthetic Cells on Chip. Biophysical Journal, 2016, 110, 17a.	0.5	0
365	Bacterial Cell Cycle Control by Modified CRISPR Binding. Biophysical Journal, 2016, 110, 62a.	0.5	0
366	Interplay between Confinement and Drag Forces Determine the Fate of Amyloid Fibrils. Physical Review Letters, 2020, 124, 118102.	7.8	0
367	DNA Sequence-Directed Cooperation between Nucleoid-Associated Proteins. SSRN Electronic Journal, 0, , .	0.4	0
368	Voices on technology: The molecular biologists' ever-expanding toy box. Molecular Cell, 2022, 82, 221-226.	9.7	0