Cees Dekker

List of Publications by Year
in descending order

368 papers	63,208 citations	1459 107 h-index	892 242 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. Nature, 1998, 393, 49-52.	13.7	5,167
2	Electronic structure of atomically resolved carbon nanotubes. Nature, 1998, 391, 59-62.	13.7	2,898
3	Individual single-wall carbon nanotubes as quantum wires. Nature, 1997, 386, 474-477.	13.7	2,812
4	Logic Circuits with Carbon Nanotube Transistors. Science, 2001, 294, 1317-1320.	6.0	2,523
5	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. Nanoscale, 2015, 7, 4598-4810.	2.8	2,452
6	Solid-state nanopores. Nature Nanotechnology, 2007, 2, 209-215.	15.6	1,743
7	Carbon nanotube intramolecular junctions. Nature, 1999, 402, 273-276.	13.7	1,639
8	Direct measurement of electrical transport through DNA molecules. Nature, 2000, 403, 635-638.	13.7	1,623
9	High-Field Electrical Transport in Single-Wall Carbon Nanotubes. Physical Review Letters, 2000, 84, 2941-2944.	2.9	1,356
10	Enzyme-Coated Carbon Nanotubes as Single-Molecule Biosensors. Nano Letters, 2003, 3, 727-730.	4.5	1,262
11	Carbon Nanotubes as Molecular Quantum Wires. Physics Today, 1999, 52, 22-28.	0.3	1,257
12	Fabrication of solid-state nanopores with single-nanometre precision. Nature Materials, 2003, 2, 537-540.	13.3	1,212
13	Carbon Nanotube Single-Electron Transistors at Room Temperature. Science, 2001, 293, 76-79.	6.0	1,025
14	Surface-Charge-Governed Ion Transport in Nanofluidic Channels. Physical Review Letters, 2004, 93, 035901.	2.9	936
15	DNA Translocation through Graphene Nanopores. Nano Letters, 2010, 10, 3163-3167.	4.5	908
16	Salt Dependence of Ion Transport and DNA Translocation through Solid-State Nanopores. Nano Letters, 2006, 6, 89-95.	4.5	735
17	Fast DNA Translocation through a Solid-State Nanopore. Nano Letters, 2005, 5, 1193-1197.	4.5	675
18	Real-time imaging of DNA loop extrusion by condensin. Science, 2018, 360, 102-105.	6.0	624

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19	Direct force measurements on DNA in a solid-state nanopore. Nature Physics, 2006, 2, 473-477.	6.5	587
20	Motor Proteins at Work for Nanotechnology. Science, 2007, 317, 333-336.	6.0	507
21	Graphene nanodevices for DNA sequencing. Nature Nanotechnology, 2016, 11, 127-136.	15.6	506
22	Treadmilling by FtsZ filaments drives peptidoglycan synthesis and bacterial cell division. Science, 2017, 355, 739-743.	6.0	503
23	Carbon nanotubes with DNA recognition. Nature, 2002, 420, 761-761.	13.7	490
24	Power Generation by Pressure-Driven Transport of Ions in Nanofluidic Channels. Nano Letters, 2007, 7, 1022-1025.	4.5	489
25	Human Rad50/Mre11 Is a Flexible Complex that Can Tether DNA Ends. Molecular Cell, 2001, 8, 1129-1135.	4.5	437
26	Identifying the Mechanism of Biosensing with Carbon Nanotube Transistors. Nano Letters, 2008, 8, 591-595.	4.5	431
27	Electrostatic trapping of single conducting nanoparticles between nanoelectrodes. Applied Physics Letters, 1997, 71, 1273-1275.	1.5	422
28	Streaming Currents in a Single Nanofluidic Channel. Physical Review Letters, 2005, 95, 116104.	2.9	420
29	Insulating behavior for DNA molecules between nanoelectrodes at the 100 nm length scale. Applied Physics Letters, 2001, 79, 3881-3883.	1.5	419
30	Fullerene 'crop circles'. Nature, 1997, 385, 780-781.	13.7	402
31	Electrokinetic Energy Conversion Efficiency in Nanofluidic Channels. Nano Letters, 2006, 6, 2232-2237.	4.5	394
32	Electrodeposition of Noble Metal Nanoparticles on Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 6146-6147.	6.6	390
33	Translocation of double-strand DNA through a silicon oxide nanopore. Physical Review E, 2005, 71, 051903.	0.8	389
34	Modeling the conductance and DNA blockade of solid-state nanopores. Nanotechnology, 2011, 22, 315101.	1.3	380
35	High flexibility of DNA on short length scales probed by atomic force microscopy. Nature Nanotechnology, 2006, 1, 137-141.	15.6	345
36	Slowing down DNA Translocation through a Nanopore in Lithium Chloride. Nano Letters, 2012, 12, 1038-1044.	4.5	343

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37	Orbital Kondo effect in carbon nanotubes. Nature, 2005, 434, 484-488.	13.7	341
38	Origin of the electrophoretic force on DNA in solid-state nanopores. Nature Physics, 2009, 5, 347-351.	6.5	327
39	Recent Advances in Magnetic Tweezers. Annual Review of Biophysics, 2012, 41, 453-472.	4.5	318
40	Fast Translocation of Proteins through Solid State Nanopores. Nano Letters, 2013, 13, 658-663.	4.5	316
41	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
42	Imaging Electron Wave Functions of Quantized Energy Levels in Carbon Nanotubes. Science, 1999, 283, 52-55.	6.0	311
43	DNA sequencing with nanopores. Nature Biotechnology, 2012, 30, 326-328.	9.4	300
44	Multiprobe Transport Experiments on Individual Single-Wall Carbon Nanotubes. Physical Review Letters, 1998, 80, 4036-4039.	2.9	297
45	Electrical generation and absorption of phonons in carbon nanotubes. Nature, 2004, 432, 371-374.	13.7	294
46	Individual Single-Walled Carbon Nanotubes as Nanoelectrodes for Electrochemistry. Nano Letters, 2005, 5, 137-142.	4.5	293
47	Paving the way to single-molecule protein sequencing. Nature Nanotechnology, 2018, 13, 786-796.	15.6	292
48	Friction and torque govern the relaxation of DNA supercoils by eukaryotic topoisomerase IB. Nature, 2005, 434, 671-674.	13.7	287
49	Dual architectural roles of HU: Formation of flexible hinges and rigid filaments. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 6969-6974.	3.3	272
50	Electronic properties of DNA. Physics World, 2001, 14, 29-33.	0.0	271
51	Octanol-assisted liposome assembly on chip. Nature Communications, 2016, 7, 10447.	5.8	269
52	The condensin complex is a mechanochemical motor that translocates along DNA. Science, 2017, 358, 672-676.	6.0	266
53	Hybrid pore formation by directed insertion of Î±-haemolysin into solid-state nanopores. Nature Nanotechnology, 2010, 5, 874-877.	15.6	261
54	Electronâ€“electron correlations in carbon nanotubes. Nature, 1998, 394, 761-764.	13.7	247

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55	Atomic-Scale Electron-Beam Sculpting of Near-Defect-Free Graphene Nanostructures. Nano Letters, 2011, 11, 2247-2250.	4.5	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.	3.3	244
57	Mesoscale conformational changes in the DNA-repair complex Rad50/Mre11/Nbs1 upon binding DNA. Nature, 2005, 437, 440-443.	13.7	243
58	Single-Molecule Measurements of the Persistence Length of Double-Stranded RNA. Biophysical Journal, 2005, 88, 2737-2744.	0.2	241
59	Charge Inversion at High Ionic Strength Studied by Streaming Currents. Physical Review Letters, 2006, 96, 224502.	2.9	239
60	Tunneling in Suspended Carbon Nanotubes Assisted by Longitudinal Phonons. Physical Review Letters, 2006, 96, 026801.	2.9	229
61	Activated dynamics in a two-dimensional Ising spin glass:Rb2Cu1â^'xCoxF4. Physical Review B, 1989, 40, 11243-11251.	1.1	228
62	Molecular Sorting by Electrical Steering of Microtubules in Kinesin-Coated Channels. Science, 2006, 312, 910-914.	6.0	225
63	Multiple rereads of single proteins at singleâ€"amino acid resolution using nanopores. Science, 2021, 374, 1509-1513.	6.0	222
64	Single-molecule transport across an individual biomimetic nuclear pore complex. Nature Nanotechnology, 2011, 6, 433-438.	15.6	221
65	Temperature-dependent resistivity of single-wall carbon nanotubes. Europhysics Letters, 1998, 41, 683-688.	0.7	220
66	Controlling Defects in Graphene for Optimizing the Electrical Properties of Graphene Nanodevices. ACS Nano, 2015, 9, 3428-3435.	7.3	220
67	Detection of Local Protein Structures along DNA Using Solid-State Nanopores. Nano Letters, 2010, 10, 324-328.	4.5	218
68	Direct observation of DNA knots using a solid-state nanopore. Nature Nanotechnology, 2016, 11, 1093-1097.	15.6	214
69	Electron-hole symmetry in a semiconducting carbon nanotube quantum dot. Nature, 2004, 429, 389-392.	13.7	213
70	Electrochemistry at Single-Walled Carbon Nanotubes:Â The Role of Band Structure and Quantum Capacitance. Journal of the American Chemical Society, 2006, 128, 7353-7359.	6.6	210
71	Two-dimensional imaging of electronic wavefunctions in carbon nanotubes. Nature, 2001, 412, 617-620.	13.7	201
72	The emerging landscape of single-molecule protein sequencing technologies. Nature Methods, 2021, 18, 604-617.	9.0	198

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73	Dynamics of DNA Supercoils. Science, 2012, 338, 94-97.	6.0	196
74	Backbone-induced semiconducting behavior in shortDNAwires. Physical Review B, 2002, 65, .	1.1	195
75	Electrical transport through carbon nanotube junctions created by mechanical manipulation. Physical Review B, 2000, 62, R10653-R10656.	1.1	192
76	Wedging Transfer of Nanostructures. Nano Letters, 2010, 10, 1912-1916.	4.5	190
77	Tailoring the hydrophobicity of graphene for its use as nanopores for DNA translocation. Nature Communications, 2013, 4, 2619.	5.8	171
78	Zooming in to see the bigger picture: Microfluidic and nanofabrication tools to study bacteria. Science, 2014, 346, 1251821.	6.0	165
79	Atomic structure of carbon nanotubes from scanning tunneling microscopy. Physical Review B, 2000, 61, 2991-2996.	1.1	164
80	Potential modulations along carbon nanotubes. Nature, 2000, 404, 834-835.	13.7	164
81	Pressure-driven transport of confined DNA polymers in fluidic channels. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15853-15858.	3.3	163
82	Influence of Electrolyte Composition on Liquid-Gated Carbon Nanotube and Graphene Transistors. Journal of the American Chemical Society, 2010, 132, 17149-17156.	6.6	162
83	Biomimetic nanopores: learning from and about nature. Trends in Biotechnology, 2011, 29, 607-614.	4.9	162
84	Length control of individual carbon nanotubes by nanostructuring with a scanning tunneling microscope. Applied Physics Letters, 1997, 71, 2629-2631.	1.5	149
85	Spatiotemporal control of coacervate formation within liposomes. Nature Communications, 2019, 10, 1800.	5.8	149
86	Plasmonic Nanopores for Trapping, Controlling Displacement, and Sequencing of DNA. ACS Nano, 2015, 9, 10598-10611.	7.3	148
87	Absence of Strong Gate Effects in Electrical Measurements on Phenylene-Based Conjugated Molecules. Nano Letters, 2003, 3, 113-117.	4.5	145
88	Distinguishing Single- and Double-Stranded Nucleic Acid Molecules Using Solid-State Nanopores. Nano Letters, 2009, 9, 2953-2960.	4.5	144
89	Manipulation and Imaging of Individual Single-Walled Carbon Nanotubes with an Atomic Force Microscope. Advanced Materials, 2000, 12, 1299-1302.	11.1	140
90	Fabrication and Characterization of Nanopore-Based Electrodes with Radii down to 2 nm. Nano Letters, 2006, 6, 105-109.	4.5	135

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91	Measurement of the ExponentÎ¼in the Low-Temperature Phase ofYBa2Cu3O7â^'Î´Films in a Magnetic Field: Direct Evidence for a Vortex-Glass Phase. Physical Review Letters, 1992, 68, 3347-3350.	2.9	134
92	DNA Translocations through Solid-State Plasmonic Nanopores. Nano Letters, 2014, 14, 6917-6925.	4.5	133
93	Translocation of RecA-Coated Double-Stranded DNA through Solid-State Nanopores. Nano Letters, 2009, 9, 3089-3095.	4.5	129
94	Controlling nanopore size, shape and stability. Nanotechnology, 2010, 21, 115304.	1.3	129
95	Optical tweezers for force measurements on DNA in nanopores. Review of Scientific Instruments, 2006, 77, 105105.	0.6	128
96	Data analysis methods for solid-state nanopores. Nanotechnology, 2015, 26, 084003.	1.3	126
97	Conformation and Dynamics of DNA Confined in Slitlike Nanofluidic Channels. Physical Review Letters, 2008, 101, 108303.	2.9	124
98	Nanofabrication of electrodes with sub-5 nm spacing for transport experiments on single molecules and metal clusters. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1997, 15, 793.	1.6	123
99	Carbon nanotube biosensors: The critical role of the reference electrode. Applied Physics Letters, 2007, 91, .	1.5	123
100	Detection of Individual Proteins Bound along DNA Using Solid-State Nanopores. Nano Letters, 2015, 15, 3153-3158.	4.5	122
101	Direct Immobilization of Native Yeast Iso-1 Cytochromecon Bare Gold:Â Fast Electron Relay to Redox Enzymes and Zeptomole Protein-Film Voltammetry. Journal of the American Chemical Society, 2004, 126, 11103-11112.	6.6	121
102	Nanobubbles in Solid-State Nanopores. Physical Review Letters, 2006, 97, 088101.	2.9	121
103	Comparing Current Noise in Biological and Solid-State Nanopores. ACS Nano, 2020, 14, 1338-1349.	7.3	119
104	Human Rad51 filaments on double- and single-stranded DNA: correlating regular and irregular forms with recombination function. Nucleic Acids Research, 2005, 33, 3292-3302.	6.5	116
105	Formation and control of wrinkles in graphene by the wedging transfer method. Applied Physics Letters, 2012, 101, .	1.5	116
106	Spatially resolved scanning tunneling spectroscopy on single-walled carbon nanotubes. Physical Review B, 2000, 62, 5238-5244.	1.1	113
107	Real-time observation of DNA translocation by the type I restriction modification enzyme EcoR124I. Nature Structural and Molecular Biology, 2004, 11, 838-843.	3.6	111
108	On-chip microfluidic production of cell-sized liposomes. Nature Protocols, 2018, 13, 856-874.	5.5	111

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109	Charge Noise in Graphene Transistors. Nano Letters, 2010, 10, 1563-1567.	4.5	109
110	DNA origami scaffold for studying intrinsically disordered proteins of the nuclear pore complex. Nature Communications, 2018, 9, 902.	5.8	109
111	DNA-loop extruding condensin complexes can traverse one another. Nature, 2020, 579, 438-442.	13.7	108
112	Movement dynamics of divisome proteins and PBP2x:FtsW in cells of <i>Streptococcus pneumoniae</i>. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 3211-3220.	3.3	107
113	Label-Free Optical Detection of DNA Translocations through Plasmonic Nanopores. ACS Nano, 2019, 13, 61-70.	7.3	107
114	Absence of a finite-temperature vortex-glass phase transition in two-dimensionalYBa2Cu3O7â^Î´films. Physical Review Letters, 1992, 69, 2717-2720.	2.9	106
115	Highly Parallel Magnetic Tweezers by Targeted DNA Tethering. Nano Letters, 2011, 11, 5489-5493.	4.5	105
116	Robustness and accuracy of cell division in <i>Escherichia coli</i> in diverse cell shapes. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6957-6962.	3.3	104
117	Controllable Atomic Scale Patterning of Freestanding Monolayer Graphene at Elevated Temperature. ACS Nano, 2013, 7, 1566-1572.	7.3	104
118	Unraveling Single-Stranded DNA in a Solid-State Nanopore. Nano Letters, 2010, 10, 1414-1420.	4.5	103
119	Real-time assembly and disassembly of human RAD51 filaments on individual DNA molecules. Nucleic Acids Research, 2007, 35, 5646-5657.	6.5	100
120	1/f noise in graphene nanopores. Nanotechnology, 2015, 26, 074001.	1.3	100
121	Two Distinct DNA Binding Modes Guide Dual Roles of a CRISPR-Cas Protein Complex. Molecular Cell, 2015, 58, 60-70.	4.5	100
122	Velocity of DNA during Translocation through a Solid-State Nanopore. Nano Letters, 2015, 15, 732-737.	4.5	98
123	Probing DNA Translocations with Inplane Current Signals in a Graphene Nanoribbon with a Nanopore. ACS Nano, 2018, 12, 2623-2633.	7.3	98
124	Control of Shape and Material Composition of Solid-State Nanopores. Nano Letters, 2009, 9, 479-484.	4.5	95
125	Bridging-induced phase separation induced by cohesin SMC protein complexes. Science Advances, 2021, 7, .	4.7	95
126	Spontaneous resistance switching and low-frequency noise in quantum point contacts. Physical Review Letters, 1991, 66, 2148-2151.	2.9	94

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127	Toward Single-Enzyme Molecule Electrochemistry: [NiFe]-Hydrogenase Protein Film Voltammetry at Nanoelectrodes. ACS Nano, 2008, 2, 2497-2504.	7.3	94
128	pH-Controlled Coacervateâ€"Membrane Interactions within Liposomes. ACS Nano, 2020, 14, 4487-4498.	7.3	94
129	Transport through the interface between a semiconducting carbon nanotube and a metal electrode. Physical Review B, 2002, 66, .	1.1	92
130	Mechanism of Homology Recognition in DNA Recombination from Dual-Molecule Experiments. Molecular Cell, 2012, 46, 616-624.	4.5	92
131	Non-Bias-Limited Tracking of Spherical Particles, Enabling Nanometer Resolution at Low Magnification. Biophysical Journal, 2012, 102, 2362-2371.	0.2	92
132	Plasmonic Nanopore for Electrical Profiling of Optical Intensity Landscapes. Nano Letters, 2013, 13, 1029-1033.	4.5	91
133	Electronic Transport Spectroscopy of Carbon Nanotubes in a Magnetic Field. Physical Review Letters, 2005, 94, 156802.	2.9	90
134	High Rectifying Efficiencies of Microtubule Motility on Kinesin-Coated Gold Nanostructures. Nano Letters, 2005, 5, 1117-1122.	4.5	90
135	Symmetry and scale orient Min protein patterns in shaped bacterial sculptures. Nature Nanotechnology, 2015, 10, 719-726.	15.6	90
136	Electronic excitation spectrum of metallic carbon nanotubes. Physical Review B, 2005, 71, .	1.1	88
137	Label-Free Detection of Post-translational Modifications with a Nanopore. Nano Letters, 2019, 19, 7957-7964.	4.5	88
138	Optimizing the Signal-to-Noise Ratio for Biosensing with Carbon Nanotube Transistors. Nano Letters, 2009, 9, 377-382.	4.5	87
139	Mechanical Division of Cell-Sized Liposomes. ACS Nano, 2018, 12, 2560-2568.	7.3	87
140	Low-frequency noise in solid-state nanopores. Nanotechnology, 2009, 20, 095501.	1.3	83
141	Detection of CRISPR-dCas9 on DNA with Solid-State Nanopores. Nano Letters, 2018, 18, 6469-6474.	4.5	83
142	The coiled-coil of the human Rad50 DNA repair protein contains specific segments of increased flexibility. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 7581-7586.	3.3	82
143	Homologous Recombination in Real Time: DNA Strand Exchange by RecA. Molecular Cell, 2008, 30, 530-538.	4.5	82
144	Tailoring the appearance: what will synthetic cells look like?. Current Opinion in Biotechnology, 2018, 51, 47-56.	3.3	82

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145	High-Speed AFM Reveals the Dynamics of Single Biomolecules at the Nanometer Scale. Cell, 2011, 147, 979-982.	13.5	81
146	Condensin Smc2-Smc4 Dimers Are Flexible and Dynamic. Cell Reports, 2016, 14, 1813-1818.	2.9	79
147	Nanopore Tomography of a Laser Focus. Nano Letters, 2005, 5, 2253-2256.	4.5	78
148	Microtubule curvatures under perpendicular electric forces reveal a low persistence length. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 7941-7946.	3.3	78
149	Dynamics of RecA filaments on single-stranded DNA. Nucleic Acids Research, 2009, 37, 4089-4099.	6.5	78
150	Ionic Permeability and Mechanical Properties of DNA Origami Nanoplates on Solid-State Nanopores. ACS Nano, 2014, 8, 35-43.	7.3	78
151	Resolving Chemical Modifications to a Single Amino Acid within a Peptide Using a Biological Nanopore. ACS Nano, 2019, 13, 13668-13676.	7.3	76
152	Fluorescent Human RAD51 Reveals Multiple Nucleation Sites and Filament Segments Tightly Associated along a Single DNA Molecule. Structure, 2007, 15, 599-609.	1.6	73
153	Mechanically controlled quantum interference in graphene break junctions. Nature Nanotechnology, 2018, 13, 1126-1131.	15.6	73
154	Electrokinetic Concentration of DNA Polymers in Nanofluidic Channels. Nano Letters, 2010, 10, 765-772.	4.5	71
155	Nanofabricated structures and microfluidic devices for bacteria: from techniques to biology. Chemical Society Reviews, 2016, 45, 268-280.	18.7	71
156	Realâ€time detection of condensinâ€driven <scp>DNA</scp> compaction reveals a multistep binding mechanism. EMBO Journal, 2017, 36, 3448-3457.	3.5	71
157	Electron-beam-induced deformations of SiO2 nanostructures. Journal of Applied Physics, 2005, 98, 014307.	1.1	69
158	Mechanical Trapping of DNA in a Double-Nanopore System. Nano Letters, 2016, 16, 8021-8028.	4.5	68
159	Shape and Size Control of Artificial Cells for Bottom-Up Biology. ACS Nano, 2019, 13, 5439-5450.	7.3	68
160	Experimental Observation of Nonlinear Ionic Transport at the Nanometer Scale. Nano Letters, 2006, 6, 2531-2535.	4.5	67
161	SDS-assisted protein transport through solid-state nanopores. Nanoscale, 2017, 9, 11685-11693.	2.8	67
162	Nanoâ€Optical Tweezing of Single Proteins in Plasmonic Nanopores. Small Methods, 2019, 3, 1800465.	4.6	67

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163	Nanopore electro-osmotic trap for the label-free study of single proteins and their conformations. Nature Nanotechnology, 2021, 16, 1244-1250.	15.6	67
164	Electrophoretic Force on a Protein-Coated DNA Molecule in a Solid-State Nanopore. Nano Letters, 2009, 9, 4441-4445.	4.5	66
165	Spatial Structure Facilitates Cooperation in a Social Dilemma: Empirical Evidence from a Bacterial Community. PLoS ONE, 2013, 8, e77042.	1.1	66
166	Double Barrel Nanopores as a New Tool for Controlling Single-Molecule Transport. Nano Letters, 2018, 18, 2738-2745.	4.5	66
167	Sculpting Nanoelectrodes with a Transmission Electron Beam for Electrical and Geometrical Characterization of Nanoparticles. Nano Letters, 2005, 5, 549-553.	4.5	65
168	Active Delivery of Single DNA Molecules into a Plasmonic Nanopore for Label-Free Optical Sensing. Nano Letters, 2018, 18, 8003-8010.	4.5	65
169	Lithography-based fabrication of nanopore arrays in freestanding SiN and graphene membranes. Nanotechnology, 2018, 29, 145302.	1.3	64
170	Magnetic Forces and DNA Mechanics in Multiplexed Magnetic Tweezers. PLoS ONE, 2012, 7, e41432.	1.1	64
171	DNA sequence encodes the position of DNA supercoils. ELife, 2018, 7, .	2.8	64
172	Detection of Nucleosomal Substructures using Solid-State Nanopores. Nano Letters, 2012, 12, 3180-3186.	4.5	63
173	Single-molecule sensing with nanopores. Physics Today, 2015, 68, 40-46.	0.3	63
174	Motor step size and ATP coupling efficiency of the dsDNA translocase EcoR124I. EMBO Journal, 2008, 27, 1388-1398.	3.5	62
175	Electrical Transport Through Single-Wall Carbon Nanotubes. , 2001, , 147-171.		61
176	Self-Aligned Plasmonic Nanopores by Optically Controlled Dielectric Breakdown. Nano Letters, 2015, 15, 7112-7117.	4.5	61
177	The condensin holocomplex cycles dynamically between open and collapsed states. Nature Structural and Molecular Biology, 2020, 27, 1134-1141.	3.6	59
178	Mapping out Min protein patterns in fully confined fluidic chambers. ELife, 2016, 5, .	2.8	59
179	When a helicase is not a helicase: dsDNA tracking by the motor protein EcoR124I. EMBO Journal, 2006, 25, 2230-2239.	3.5	57
180	Persistence Length Measurements from Stochastic Single-Microtubule Trajectories. Nano Letters, 2007, 7, 3138-3144.	4.5	57

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181	Single-molecule studies of nucleic acid motors. Current Opinion in Structural Biology, 2007, 17, 80-86.	2.6	57
182	Activated Dynamics in the Two-Dimensional Ising Spin-GlassRb2Cu1âˆ’xCoxF4. Physical Review Letters, 1988, 61, 1780-1783.	2.9	56
183	Measurement of the Docking Time of a DNA Molecule onto a Solid-State Nanopore. Nano Letters, 2012, 12, 4159-4163.	4.5	56
184	Dividing the Archaeal Way: The Ancient Cdv Cell-Division Machinery. Frontiers in Microbiology, 2018, 9, 174.	1.5	56
185	Electrical Docking of Microtubules for Kinesin-Driven Motility in Nanostructures. Nano Letters, 2005, 5, 235-241.	4.5	55
186	Multistability and dynamic transitions of intracellular Min protein patterns. Molecular Systems Biology, 2016, 12, 873.	3.2	54
187	Human centromeric CENP-A chromatin is a homotypic, octameric nucleosome at all cell cycle points. Journal of Cell Biology, 2017, 216, 607-621.	2.3	53
188	FtsZ treadmilling is essential for Z-ring condensation and septal constriction initiation in Bacillus subtilis cell division. Nature Communications, 2021, 12, 2448.	5.8	53
189	Towards a synthetic cell cycle. Nature Communications, 2021, 12, 4531.	5.8	53
190	Electrophoresis of individual microtubules in microchannels. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 7770-7775.	3.3	52
191	Intercalation-Based Single-Molecule Fluorescence Assay To Study DNA Supercoil Dynamics. Nano Letters, 2016, 16, 4699-4707.	4.5	52
192	Charge Noise in Liquid-Gated Single-Wall Carbon Nanotube Transistors. Nano Letters, 2008, 8, 685-688.	4.5	51
193	Magnetic order in the two-dimensional randomly mixed ferromagnet-antiferromagnetRb2Cu1âˆ’xCoxF4. Physical Review B, 1988, 38, 11512-11522.	1.1	50
194	Three-terminal scanning tunneling spectroscopy of suspended carbon nanotubes. Physical Review B, 2005, 72, .	1.1	49
195	Lithographically Fabricated Nanopore-Based Electrodes for Electrochemistry. Analytical Chemistry, 2005, 77, 1911-1915.	3.2	48
196	Nucleosome Assembly Dynamics Involve Spontaneous Fluctuations in the Handedness of Tetrasomes. Cell Reports, 2015, 10, 216-225.	2.9	48
197	1/<i>f</i> noise in solid-state nanopores is governed by access and surface regions. Nanotechnology, 2019, 30, 395202.	1.3	48
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