Cees Dekker

List of Publications by Year
in descending order

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	Condensin extrudes DNA loops in steps up to hundreds of base pairs that are generated by ATP binding events. Nucleic Acids Research, 2022, 50, 820-832.	14.5	29
2	CRISPR-dCas9 based DNA detection scheme for diagnostics in resource-limited settings. Nanoscale, 2022, 14, 1885-1895.	5.6	12
3	High-resolution imaging of bacterial spatial organization with vertical cell imaging by nanostructured immobilization (VerCINI). Nature Protocols, 2022, 17, 847-869.	12.0	8
4	Voices on technology: The molecular biologistsâ€™ ever-expanding toy box. Molecular Cell, 2022, 82, 221-226.	9.7	0
5	Single-Molecule Ionic andÂOptical Sensing withÂNanoapertures. Nanostructure Science and Technology, 2022, , 367-387.	0.1	3
6	The archaeal division protein CdvB1 assembles into polymers that are depolymerized by CdvC. FEBS Letters, 2022, 596, 958-969.	2.8	7
7	CENP-B-mediated DNA loops regulate activity and stability of human centromeres. Molecular Cell, 2022, 82, 1751-1767.e8.	9.7	27
8	Probing nanomotion of single bacteria with graphene drums. Nature Nanotechnology, 2022, 17, 637-642.	31.5	30
9	ParB proteins can bypass DNA-bound roadblocks via dimer-dimer recruitment. Science Advances, 2022, 8, .	10.3	25
10	Condensin-driven loop extrusion on supercoiled DNA. Nature Structural and Molecular Biology, 2022, 29, 719-727.	8.2	21
11	Transport receptor occupancy in nuclear pore complex mimics. Nano Research, 2022, 15, 9689-9703.	10.4	12
12	Translocation of DNA through Ultrathin Nanoslits. Advanced Materials, 2021, 33, e2007682.	21.0	22
13	Bridging-induced phase separation induced by cohesin SMC protein complexes. Science Advances, 2021, 7, .	10.3	95
14	Palladium zero-mode waveguides for optical single-molecule detection with nanopores. Nanotechnology, 2021, 32, 18LT01.	2.6	24
15	A designer FG-Nup that reconstitutes the selective transport barrier of the nuclear pore complex. Nature Communications, 2021, 12, 2010.	12.8	35
16	Nanopores: a versatile tool to study protein dynamics. Essays in Biochemistry, 2021, 65, 93-107.	4.7	25
17	FtsZ treadmilling is essential for Z-ring condensation and septal constriction initiation in Bacillus subtilis cell division. Nature Communications, 2021, 12, 2448.	12.8	53
18	Studying phase separation in confinement. Current Opinion in Colloid and Interface Science, 2021, 52, 101419.	7.4	18

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19	DNA sequence-directed cooperation between nucleoid-associated proteins. IScience, 2021, 24, 102408.	4.1	12
20	AutoStepfinder: A fast and automated step detection method for single-molecule analysis. Patterns, 2021, 2, 100256.	5.9	29
21	Mechanisms for Chromosome Segregation in Bacteria. Frontiers in Microbiology, 2021, 12, 685687.	3.5	19
22	Reconstitution of Ultrawide DNA Origami Pores in Liposomes for Transmembrane Transport of Macromolecules. ACS Nano, 2021, 15, 12768-12779.	14.6	44
23	Optimized cDICE for Efficient Reconstitution of Biological Systems in Giant Unilamellar Vesicles. ACS Synthetic Biology, 2021, 10, 1690-1702.	3.8	44
24	The emerging landscape of single-molecule protein sequencing technologies. Nature Methods, 2021, 18, 604-617.	19.0	198
25	Diagnosing point-of-care diagnostics for neglected tropical diseases. PLoS Neglected Tropical Diseases, 2021, 15, e0009405.	3.0	26
26	Bulk-surface coupling identifies the mechanistic connection between Min-protein patterns in vivo and in vitro. Nature Communications, 2021, 12, 3312.	12.8	26
27	Towards a synthetic cell cycle. Nature Communications, 2021, 12, 4531.	12.8	53
28	Nanopore electro-osmotic trap for the label-free study of single proteins and their conformations. Nature Nanotechnology, 2021, 16, 1244-1250.	31.5	67
29	The NEOtrap â€“ en route with a new single-molecule technique. IScience, 2021, 24, 103007.	4.1	7
30	Genome-in-a-Box: Building a Chromosome from the Bottom Up. ACS Nano, 2021, 15, 111-124.	14.6	16
31	Simultaneous orientation and 3D localization microscopy with a Vortex point spread function. Nature Communications, 2021, 12, 5934.	12.8	39
32	FIB-milled plasmonic nanoapertures allow for long trapping times of individual proteins. IScience, 2021, 24, 103237.	4.1	13
33	Multiple rereads of single proteins at singleâ€“amino acid resolution using nanopores. Science, 2021, 374, 1509-1513.	12.6	222
34	The condensin holocomplex cycles dynamically between open and collapsed states. Nature Structural and Molecular Biology, 2020, 27, 1134-1141.	8.2	59
35	A Mechanically Tunable Quantum Dot in a Graphene Break Junction. Nano Letters, 2020, 20, 4924-4931.	9.1	9
36	Direct observation of independently moving replisomes in Escherichia coli. Nature Communications, 2020, 11, 3109.	12.8	33

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37	Interplay between Confinement and Drag Forces Determine the Fate of Amyloid Fibrils. Physical Review Letters, 2020, 124, 118102.	7.8	0
38	pH-Controlled Coacervateâ€“Membrane Interactions within Liposomes. ACS Nano, 2020, 14, 4487-4498.	14.6	94
39	DNA-loop extruding condensin complexes can traverse one another. Nature, 2020, 579, 438-442.	27.8	108
40	Comparing Current Noise in Biological and Solid-State Nanopores. ACS Nano, 2020, 14, 1338-1349.	14.6	119
41	Single-molecule Protein Sequencing using Biological Nanopores. Biophysical Journal, 2020, 118, 163a.	0.5	1
42	A Designer FG-Nup that Reconstitutes the Selective Transport Barrier of the Nuclear Pore Complex. Biophysical Journal, 2020, 118, 341a-342a.	0.5	2
43	Membrane Tensionâ€“Mediated Growth of Liposomes. Small, 2019, 15, e1902898.	10.0	45
44	1/<i>f</i> noise in solid-state nanopores is governed by access and surface regions. Nanotechnology, 2019, 30, 395202.	2.6	48
45	Distinct Roles for Condensinâ€™s Two ATPase Sites in Chromosome Condensation. Molecular Cell, 2019, 76, 724-737.e5.	9.7	39
46	Label-Free Detection of Post-translational Modifications with a Nanopore. Nano Letters, 2019, 19, 7957-7964.	9.1	88
47	Resolving Chemical Modifications to a Single Amino Acid within a Peptide Using a Biological Nanopore. ACS Nano, 2019, 13, 13668-13676.	14.6	76
48	Nanoâ€Optical Tweezing of Single Proteins in Plasmonic Nanopores. Small Methods, 2019, 3, 1800465.	8.6	67
49	A microfluidic platform for the characterisation of membrane active antimicrobials. Lab on A Chip, 2019, 19, 837-844.	6.0	46
50	Electro-Mechanical Conductance Modulation of a Nanopore Using a Removable Gate. ACS Nano, 2019, 13, 2398-2409.	14.6	16
51	Cell Boundary Confinement Sets the Size and Position of the E.Âcoli Chromosome. Current Biology, 2019, 29, 2131-2144.e4.	3.9	47
52	Shape and Size Control of Artificial Cells for Bottom-Up Biology. ACS Nano, 2019, 13, 5439-5450.	14.6	68
53	Visualization of unstained DNA nanostructures with advanced in-focus phase contrast TEM techniques. Scientific Reports, 2019, 9, 7218.	3.3	10
54	Bacteriaâ€inâ€paper, a versatile platform to study bacterial ecology. Ecology Letters, 2019, 22, 1316-1323.	6.4	6

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55	Direct imaging of the circular chromosome in a live bacterium. Nature Communications, 2019, 10, 2194.	12.8	48
56	An Integrated Microfluidic Platform for Quantifying Drug Permeation across Biomimetic Vesicle Membranes. Molecular Pharmaceutics, 2019, 16, 2494-2501.	4.6	36
57	Spatiotemporal control of coacervate formation within liposomes. Nature Communications, 2019, 10, 1800.	12.8	149
58	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.	7.1	107
59	Single-Molecule Protein Fingerprinting using Nanopores. Biophysical Journal, 2019, 116, 316a.	0.5	1
60	High Bandwidth Sensing of Single Protein Dynamics using Nanopores and DNA Origami. Biophysical Journal, 2019, 116, 341a-342a.	0.5	1
61	Label-Free Optical Detection of DNA Translocations through Plasmonic Nanopores. ACS Nano, 2019, 13, 61-70.	14.6	107
62	Intercalating Electron Dyes for TEM Visualization of DNA at the Singleâ€Molecule Level. ChemBioChem, 2019, 20, 822-830.	2.6	5
63	Synthetic life on a chip. Emerging Topics in Life Sciences, 2019, 3, 559-566.	2.6	10
64	Real-time imaging of DNA loop extrusion by condensin. Science, 2018, 360, 102-105.	12.6	624
65	Probing DNA Translocations with Inplane Current Signals in a Graphene Nanoribbon with a Nanopore. ACS Nano, 2018, 12, 2623-2633.	14.6	98
66	DNA origami scaffold for studying intrinsically disordered proteins of the nuclear pore complex. Nature Communications, 2018, 9, 902.	12.8	109
67	Reversible Immobilization of Proteins in Sensors and Solidâ€State Nanopores. Small, 2018, 14, e1703357.	10.0	30
68	Mechanical Division of Cell-Sized Liposomes. ACS Nano, 2018, 12, 2560-2568.	14.6	87
69	Lithography-based fabrication of nanopore arrays in freestanding SiN and graphene membranes. Nanotechnology, 2018, 29, 145302.	2.6	64
70	Integrating Subâ€3 nm Plasmonic Gaps into Solidâ€State Nanopores. Small, 2018, 14, e1703307.	10.0	31
71	Direct observation of end resection by RecBCD during double-stranded DNA break repair in vivo. Nucleic Acids Research, 2018, 46, 1821-1833.	14.5	26
72	On-chip microfluidic production of cell-sized liposomes. Nature Protocols, 2018, 13, 856-874.	12.0	111

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73	Double Barrel Nanopores as a New Tool for Controlling Single-Molecule Transport. Nano Letters, 2018, 18, 2738-2745.	9.1	66
74	Active Delivery of Single DNA Molecules into a Plasmonic Nanopore for Label-Free Optical Sensing. Nano Letters, 2018, 18, 8003-8010.	9.1	65
75	Mechanically controlled quantum interference in graphene break junctions. Nature Nanotechnology, 2018, 13, 1126-1131.	31.5	73
76	Detection of CRISPR-dCas9 on DNA with Solid-State Nanopores. Nano Letters, 2018, 18, 6469-6474.	9.1	83
77	Paving the way to single-molecule protein sequencing. Nature Nanotechnology, 2018, 13, 786-796.	31.5	292
78	How we made the carbon nanotube transistor. Nature Electronics, 2018, 1, 518-518.	26.0	17
79	Spatial structure of disordered proteins dictates conductance and selectivity in nuclear pore complex mimics. ELife, 2018, 7, .	6.0	37
80	Dividing the Archaeal Way: The Ancient Cdv Cell-Division Machinery. Frontiers in Microbiology, 2018, 9, 174.	3.5	56
81	FtsZâ€Induced Shape Transformation of Coacervates. Advanced Biology, 2018, 2, 1800136.	3.0	23
82	Tailoring the appearance: what will synthetic cells look like?. Current Opinion in Biotechnology, 2018, 51, 47-56.	6.6	82
83	DNA sequence encodes the position of DNA supercoils. ELife, 2018, 7, .	6.0	64
84	The supercoiling state of DNA determines the handedness of both H3 and CENP-A nucleosomes. Nanoscale, 2017, 9, 1862-1870.	5.6	20
85	Treadmilling by FtsZ filaments drives peptidoglycan synthesis and bacterial cell division. Science, 2017, 355, 739-743.	12.6	503
86	Human centromeric CENP-A chromatin is a homotypic, octameric nucleosome at all cell cycle points. Journal of Cell Biology, 2017, 216, 607-621.	5.2	53
87	Nanoscience and Nanotechnology Cross Borders. ACS Nano, 2017, 11, 1123-1126.	14.6	4
88	Annealing helicase HARP closes RPA-stabilized DNA bubbles non-processively. Nucleic Acids Research, 2017, 45, 4687-4695.	14.5	4
89	Distortion of DNA Origami on Graphene Imaged with Advanced TEM Techniques. Small, 2017, 13, 1700876.	10.0	19
90	On-chip density-based purification of liposomes. Biomicrofluidics, 2017, 11, 034106.	2.4	24

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91	The condensin complex is a mechanochemical motor that translocates along DNA. Science, 2017, 358, 672-676.	12.6	266
92	SDS-assisted protein transport through solid-state nanopores. Nanoscale, 2017, 9, 11685-11693.	5.6	67
93	Through-membrane electron-beam lithography for ultrathin membrane applications. Applied Physics Letters, 2017, 111, .	3.3	11
94	Catching DNA with hoopsâ€"biophysical approaches to clarify the mechanism of SMC proteins. Nature Structural and Molecular Biology, 2017, 24, 1012-1020.	8.2	10
95	Realâ€time detection of condensinâ€driven <scp>DNA</scp> compaction reveals a multistep binding mechanism. EMBO Journal, 2017, 36, 3448-3457.	7.8	71
96	Multistability and dynamic transitions of intracellular Min protein patterns. Molecular Systems Biology, 2016, 12, 873.	7.2	54
97	CRISPR-mediated control of the bacterial initiation of replication. Nucleic Acids Research, 2016, 44, 3801-3810.	14.5	41
98	A Microfluidic Platform to Produce and Manipulate Liposomes - Towards Synthetic Cells on Chip. Biophysical Journal, 2016, 110, 17a.	0.5	0
99	Direct observation of DNA knots using a solid-state nanopore. Nature Nanotechnology, 2016, 11, 1093-1097.	31.5	214
100	Mechanical Trapping of DNA in a Double-Nanopore System. Nano Letters, 2016, 16, 8021-8028.	9.1	68
101	Condensin Smc2-Smc4 Dimers Are Flexible and Dynamic. Cell Reports, 2016, 14, 1813-1818.	6.4	79
102	Intercalation-Based Single-Molecule Fluorescence Assay To Study DNA Supercoil Dynamics. Nano Letters, 2016, 16, 4699-4707.	9.1	52
103	Octanol-assisted liposome assembly on chip. Nature Communications, 2016, 7, 10447.	12.8	269
104	Bacterial predatorâ€"prey dynamics in microscale patchy landscapes. Proceedings of the Royal Society B: Biological Sciences, 2016, 283, 20152154.	2.6	46
105	Bacterial Cell Cycle Control by Modified CRISPR Binding. Biophysical Journal, 2016, 110, 62a.	0.5	0
106	Graphene nanodevices for DNA sequencing. Nature Nanotechnology, 2016, 11, 127-136.	31.5	506
107	New technologies for DNA analysis â€" a review of the READNA Project. New Biotechnology, 2016, 33, 311-330.	4.4	10
108	Nanofabricated structures and microfluidic devices for bacteria: from techniques to biology. Chemical Society Reviews, 2016, 45, 268-280.	38.1	71

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109	Density-dependent adaptive resistance allows swimming bacteria to colonize an antibiotic gradient. ISME Journal, 2016, 10, 30-38.	9.8	41
110	CENP-A and H3 Nucleosomes Display a Similar Stability to Force-Mediated Disassembly. PLoS ONE, 2016, 11, e0165078.	2.5	18
111	Mapping out Min protein patterns in fully confined fluidic chambers. ELife, 2016, 5, .	6.0	59
112	Copper-free click chemistry for attachment of biomolecules in magnetic tweezers. BMC Biophysics, 2015, 8, 9.	4.4	40
113	Single-molecule sensing with nanopores. Physics Today, 2015, 68, 40-46.	0.3	63
114	Multi-color imaging of the bacterial nucleoid and division proteins with blue, orange, and near-infrared fluorescent proteins. Frontiers in Microbiology, 2015, 6, 607.	3.5	32
115	Comparing the Assembly and Handedness Dynamics of (H3.3-H4)2 Tetrasomes to Canonical Tetrasomes. PLoS ONE, 2015, 10, e0141267.	2.5	13
116	Counterintuitive DNA Sequence Dependence in Supercoiling-Induced DNA Melting. PLoS ONE, 2015, 10, e0141576.	2.5	25
117	Temperature dependence of DNA translocations through solid-state nanopores. Nanotechnology, 2015, 26, 234004.	2.6	38
118	Photoresistance Switching of Plasmonic Nanopores. Nano Letters, 2015, 15, 776-782.	9.1	38
119	Velocity of DNA during Translocation through a Solid-State Nanopore. Nano Letters, 2015, 15, 732-737.	9.1	98
120	1/f noise in graphene nanopores. Nanotechnology, 2015, 26, 074001.	2.6	100
121	Nucleosome Assembly Dynamics Involve Spontaneous Fluctuations in the Handedness of Tetrasomes. Cell Reports, 2015, 10, 216-225.	6.4	48
122	Experimental phase diagram of negatively supercoiled DNA measured by magnetic tweezers and fluorescence. Nanoscale, 2015, 7, 3205-3216.	5.6	25
123	Data analysis methods for solid-state nanopores. Nanotechnology, 2015, 26, 084003.	2.6	126
124	Two Distinct DNA Binding Modes Guide Dual Roles of a CRISPR-Cas Protein Complex. Molecular Cell, 2015, 58, 60-70.	9.7	100
125	DNA nanopore translocation in glutamate solutions. Nanoscale, 2015, 7, 13605-13609.	5.6	18
126	Symmetry and scale orient Min protein patterns in shaped bacterial sculptures. Nature Nanotechnology, 2015, 10, 719-726.	31.5	90

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127	Controlling Defects in Graphene for Optimizing the Electrical Properties of Graphene Nanodevices. ACS Nano, 2015, 9, 3428-3435.	14.6	220
128	Detection of Individual Proteins Bound along DNA Using Solid-State Nanopores. Nano Letters, 2015, 15, 3153-3158.	9.1	122
129	Plasmonic Nanopores for Trapping, Controlling Displacement, and Sequencing of DNA. ACS Nano, 2015, 9, 10598-10611.	14.6	148
130	The idiosyncrasy of spatial structure in bacterial competition. BMC Research Notes, 2015, 8, 245.	1.4	36
131	Self-Aligned Plasmonic Nanopores by Optically Controlled Dielectric Breakdown. Nano Letters, 2015, 15, 7112-7117.	9.1	61
132	Dynamics of Nucleosomal Structures Measured by High-Speed Atomic Force Microscopy. Small, 2015, 11, 976-984.	10.0	34
133	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. Nanoscale, 2015, 7, 4598-4810.	5.6	2,452
134	Nutrient-responsive regulation determines biodiversity in a colicin-mediated bacterial community. BMC Biology, 2014, 12, 68.	3.8	42
135	Skewed Brownian Fluctuations in Single-Molecule Magnetic Tweezers. PLoS ONE, 2014, 9, e108271.	2.5	10
136	Zooming in to see the bigger picture: Microfluidic and nanofabrication tools to study bacteria. Science, 2014, 346, 1251821.	12.6	165
137	DNA Translocations through Solid-State Plasmonic Nanopores. Nano Letters, 2014, 14, 6917-6925.	9.1	133
138	Systems and synthetic biology approaches to cell division. Systems and Synthetic Biology, 2014, 8, 173-178.	1.0	5
139	Ionic Permeability and Mechanical Properties of DNA Origami Nanoplates on Solid-State Nanopores. ACS Nano, 2014, 8, 35-43.	14.6	78
140	A Simple Self-Calibrating Method To Measure the Height of Fluorescent Molecules and Beads at Nanoscale Resolution. Nano Letters, 2014, 14, 4469-4475.	9.1	3
141	Divided we stand: splitting synthetic cells for their proliferation. Systems and Synthetic Biology, 2014, 8, 249-269.	1.0	43
142	Fast Translocation of Proteins through Solid State Nanopores. Nano Letters, 2013, 13, 658-663.	9.1	316
143	Tailoring the hydrophobicity of graphene for its use as nanopores for DNA translocation. Nature Communications, 2013, 4, 2619.	12.8	171
144	Periodic Modulations of Optical Tweezers Near Solidâ€State Membranes. Small, 2013, 9, 679-684.	10.0	6

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145	Plasmonic Nanopore for Electrical Profiling of Optical Intensity Landscapes. Nano Letters, 2013, 13, 1029-1033.	9.1	91
146	Controllable Atomic Scale Patterning of Freestanding Monolayer Graphene at Elevated Temperature. ACS Nano, 2013, 7, 1566-1572.	14.6	104
147	Non-equilibrium folding of individual DNA molecules recaptured up to 1000 times in a solid state nanopore. Nanotechnology, 2013, 24, 475101.	2.6	33
148	Scanning a DNA Molecule for Bound Proteins Using Hybrid Magnetic and Optical Tweezers. PLoS ONE, 2013, 8, e65329.	2.5	18
149	Spatial Structure Facilitates Cooperation in a Social Dilemma: Empirical Evidence from a Bacterial Community. PLoS ONE, 2013, 8, e77042.	2.5	66
150	Detection of Nucleosomal Substructures using Solid-State Nanopores. Nano Letters, 2012, 12, 3180-3186.	9.1	63
151	Recent Advances in Magnetic Tweezers. Annual Review of Biophysics, 2012, 41, 453-472.	10.0	318
152	Mechanism of Homology Recognition in DNA Recombination from Dual-Molecule Experiments. Molecular Cell, 2012, 46, 616-624.	9.7	92
153	Formation and control of wrinkles in graphene by the wedging transfer method. Applied Physics Letters, 2012, 101, .	3.3	116
154	Non-Bias-Limited Tracking of Spherical Particles, Enabling Nanometer Resolution at Low Magnification. Biophysical Journal, 2012, 102, 2362-2371.	0.5	92
155	Measuring Single-Wall Carbon Nanotubes with Solid-State Nanopores. Methods in Molecular Biology, 2012, 870, 227-239.	0.9	3
156	Measurement of the Docking Time of a DNA Molecule onto a Solid-State Nanopore. Nano Letters, 2012, 12, 4159-4163.	9.1	56
157	Slowing down DNA Translocation through a Nanopore in Lithium Chloride. Nano Letters, 2012, 12, 1038-1044.	9.1	343
158	Translocation of DNA-Protein Complexes through Solid-State Nanopores. Biophysical Journal, 2012, 102, 429a.	0.5	0
159	Nucleosome Detection using Solid State Nanopores. Biophysical Journal, 2012, 102, 730a.	0.5	0
160	Translocating Single-Stranded DNA through Crystalline Graphene Nanopores. Biophysical Journal, 2012, 102, 728a.	0.5	0
161	Rapid manufacturing of low-noise membranes for nanopore sensors by<i>trans</i>-chip illumination lithography. Nanotechnology, 2012, 23, 475302.	2.6	31
162	Reply to Comment on â€˜Modeling the conductance and DNA blockade of solid-state nanoporesâ€™. Nanotechnology, 2012, 23, 088002.	2.6	3

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163	Dynamics of DNA Supercoils. Science, 2012, 338, 94-97.	12.6	196
164	DNA sequencing with nanopores. Nature Biotechnology, 2012, 30, 326-328.	17.5	300
165	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.	7.1	104
166	Magnetic Forces and DNA Mechanics in Multiplexed Magnetic Tweezers. PLoS ONE, 2012, 7, e41432.	2.5	64
167	NAP1-Assisted Nucleosome Assembly on DNA Measured in Real Time by Single-Molecule Magnetic Tweezers. PLoS ONE, 2012, 7, e46306.	2.5	29
168	Highly Parallel Magnetic Tweezers by Targeted DNA Tethering. Nano Letters, 2011, 11, 5489-5493.	9.1	105
169	Translocation of Single-Wall Carbon Nanotubes Through Solid-State Nanopores. Nano Letters, 2011, 11, 2446-2450.	9.1	27
170	Atomic-Scale Electron-Beam Sculpting of Near-Defect-Free Graphene Nanostructures. Nano Letters, 2011, 11, 2247-2250.	9.1	246
171	In Vitro Measurements of Single-Molecule Transport Across an Individual Biomimetic Nuclear Pore Complex. Biophysical Journal, 2011, 100, 521a.	0.5	1
172	Molecular Detection and Force Spectroscopy in Solid-State Nanopores with Integrated Optical Tweezers. , 2011, , 35-49.		0
173	Modeling the conductance and DNA blockade of solid-state nanopores. Nanotechnology, 2011, 22, 315101.	2.6	380
174	Single-molecule transport across an individual biomimetic nuclear pore complex. Nature Nanotechnology, 2011, 6, 433-438.	31.5	221
175	Annealing Helicase HARP: A Single Molecule Study. Biophysical Journal, 2011, 100, 240a.	0.5	0
176	High-Speed AFM Reveals the Dynamics of Single Biomolecules at the Nanometer Scale. Cell, 2011, 147, 979-982.	28.9	81
177	Biomimetic nanopores: learning from and about nature. Trends in Biotechnology, 2011, 29, 607-614.	9.3	162
178	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
179	DNA Translocation through Graphene Nanopores. Nano Letters, 2010, 10, 3163-3167.	9.1	908
180	Hybrid pore formation by directed insertion of Î±-haemolysin into solid-state nanopores. Nature Nanotechnology, 2010, 5, 874-877.	31.5	261

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181	Torsional regulation of hRPA-induced unwinding of double-stranded DNA. Nucleic Acids Research, 2010, 38, 4133-4142.	14.5	43
182	Controlling nanopore size, shape and stability. Nanotechnology, 2010, 21, 115304.	2.6	129
183	Detection of Local Protein Structures along DNA Using Solid-State Nanopores. Nano Letters, 2010, 10, 324-328.	9.1	218
184	Unraveling Single-Stranded DNA in a Solid-State Nanopore. Nano Letters, 2010, 10, 1414-1420.	9.1	103
185	Influence of Electrolyte Composition on Liquid-Gated Carbon Nanotube and Graphene Transistors. Journal of the American Chemical Society, 2010, 132, 17149-17156.	13.7	162
186	Wedging Transfer of Nanostructures. Nano Letters, 2010, 10, 1912-1916.	9.1	190
187	Charge Noise in Graphene Transistors. Nano Letters, 2010, 10, 1563-1567.	9.1	109
188	Electrokinetic Concentration of DNA Polymers in Nanofluidic Channels. Nano Letters, 2010, 10, 765-772.	9.1	71
189	Note: Interference technique for minimally invasive, subnanometer, microsecond measurements of displacements. Review of Scientific Instruments, 2010, 81, 016103.	1.3	0
190	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
191	Electrophoretic Force on a Protein-Coated DNA Molecule in a Solid-State Nanopore. Nano Letters, 2009, 9, 4441-4445.	9.1	66
192	Dynamics of RecA filaments on single-stranded DNA. Nucleic Acids Research, 2009, 37, 4089-4099.	14.5	78
193	Low-frequency noise in solid-state nanopores. Nanotechnology, 2009, 20, 095501.	2.6	83
194	Probing Macrophage Activity with Carbonâ€Nanotube Sensors. Small, 2009, 5, 2528-2532.	10.0	27
195	Origin of the electrophoretic force on DNA in solid-state nanopores. Nature Physics, 2009, 5, 347-351.	16.7	327
196	Comparing the weak and strong gateâ€coupling regimes for nanotube and graphene transistors. Physica Status Solidi - Rapid Research Letters, 2009, 3, 190-192.	2.4	13
197	Translocation of RecA-Coated Double-Stranded DNA through Solid-State Nanopores. Nano Letters, 2009, 9, 3089-3095.	9.1	129
198	Distinguishing Single- and Double-Stranded Nucleic Acid Molecules Using Solid-State Nanopores. Nano Letters, 2009, 9, 2953-2960.	9.1	144

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199	Control of Shape and Material Composition of Solid-State Nanopores. Nano Letters, 2009, 9, 479-484.	9.1	95
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