

Cees Dekker

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

358
papers

53,104
citations

102
h-index

228
g-index

412
ext. papers

58,852
ext. citations

12.4
avg, IF

7.9
L-index

#	Paper	IF	Citations
358	Single-Molecule Ionic and Optical Sensing with Nanoapertures. <i>Nanostructure Science and Technology</i> , 2022 , 367-387	0.9	0
357	Multiple rereads of single proteins at single-amino acid resolution using nanopores. <i>Science</i> , 2021 , eabk4381	39.3	48
356	Condensin extrudes DNA loops in steps up to hundreds of base pairs that are generated by ATP binding events.. <i>Nucleic Acids Research</i> , 2021 ,	20.1	4
355	Simultaneous orientation and 3D localization microscopy with a Vortex point spread function. <i>Nature Communications</i> , 2021 , 12, 5934	17.4	5
354	FIB-milled plasmonic nanoapertures allow for long trapping times of individual proteins. <i>IScience</i> , 2021 , 24, 103237	6.1	3
353	Genome-in-a-Box: Building a Chromosome from the Bottom Up. <i>ACS Nano</i> , 2021 , 15, 111-124	16.7	4
352	A designer FG-Nup that reconstitutes the selective transport barrier of the nuclear pore complex. <i>Nature Communications</i> , 2021 , 12, 2010	17.4	7
351	Nanopores: a versatile tool to study protein dynamics. <i>Essays in Biochemistry</i> , 2021 , 65, 93-107	7.6	12
350	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	17.4	10
349	Studying phase separation in confinement. <i>Current Opinion in Colloid and Interface Science</i> , 2021 , 52, 101419	7.6	6
348	DNA sequence-directed cooperation between nucleoid-associated proteins. <i>IScience</i> , 2021 , 24, 102408	6.1	4
347	: A fast and automated step detection method for single-molecule analysis. <i>Patterns</i> , 2021 , 2, 100256	5.1	8
346	Mechanisms for Chromosome Segregation in Bacteria. <i>Frontiers in Microbiology</i> , 2021 , 12, 685687	5.7	6
345	Reconstitution of Ultrawide DNA Origami Pores in Liposomes for Transmembrane Transport of Macromolecules. <i>ACS Nano</i> , 2021 ,	16.7	8
344	Optimized cDICE for Efficient Reconstitution of Biological Systems in Giant Unilamellar Vesicles. <i>ACS Synthetic Biology</i> , 2021 , 10, 1690-1702	5.7	11
343	The emerging landscape of single-molecule protein sequencing technologies. <i>Nature Methods</i> , 2021 , 18, 604-617	21.6	60
342	Diagnosing point-of-care diagnostics for neglected tropical diseases. <i>PLoS Neglected Tropical Diseases</i> , 2021 , 15, e0009405	4.8	1

341	Bulk-surface coupling identifies the mechanistic connection between Min-protein patterns in vivo and in vitro. <i>Nature Communications</i> , 2021 , 12, 3312	17.4	4
340	Towards a synthetic cell cycle. <i>Nature Communications</i> , 2021 , 12, 4531	17.4	7
339	Translocation of DNA through Ultrathin Nanoslits. <i>Advanced Materials</i> , 2021 , 33, e2007682	24	6
338	Bridging-induced phase separation induced by cohesin SMC protein complexes. <i>Science Advances</i> , 2021 , 7,	14.3	38
337	Palladium zero-mode waveguides for optical single-molecule detection with nanopores. <i>Nanotechnology</i> , 2021 , 32, 18LT01	3.4	4
336	Nanopore electro-osmotic trap for the label-free study of single proteins and their conformations. <i>Nature Nanotechnology</i> , 2021 , 16, 1244-1250	28.7	13
335	The NEOtrap - en route with a new single-molecule technique. <i>iScience</i> , 2021 , 24, 103007	6.1	0
334	A Mechanically Tunable Quantum Dot in a Graphene Break Junction. <i>Nano Letters</i> , 2020 , 20, 4924-4931	11.5	4
333	Direct observation of independently moving replisomes in Escherichia coli. <i>Nature Communications</i> , 2020 , 11, 3109	17.4	14
332	Interplay between Confinement and Drag Forces Determine the Fate of Amyloid Fibrils. <i>Physical Review Letters</i> , 2020 , 124, 118102	7.4	
331	pH-Controlled Coacervate-Membrane Interactions within Liposomes. <i>ACS Nano</i> , 2020 , 14, 4487-4498	16.7	43
330	DNA-loop extruding condensin complexes can traverse one another. <i>Nature</i> , 2020 , 579, 438-442	50.4	55
329	Comparing Current Noise in Biological and Solid-State Nanopores. <i>ACS Nano</i> , 2020 , 14, 1338-1349	16.7	63
328	The condensin holocomplex cycles dynamically between open and collapsed states. <i>Nature Structural and Molecular Biology</i> , 2020 , 27, 1134-1141	17.6	29
327	Resolving Chemical Modifications to a Single Amino Acid within a Peptide Using a Biological Nanopore. <i>ACS Nano</i> , 2019 , 13, 13668-13676	16.7	46
326	Nano-Optical Tweezing of Single Proteins in Plasmonic Nanopores. <i>Small Methods</i> , 2019 , 3, 1800465	12.8	49
325	A microfluidic platform for the characterisation of membrane active antimicrobials. <i>Lab on A Chip</i> , 2019 , 19, 837-844	7.2	31
324	Electro-Mechanical Conductance Modulation of a Nanopore Using a Removable Gate. <i>ACS Nano</i> , 2019 , 13, 2398-2409	16.7	13

323	Cell Boundary Confinement Sets the Size and Position of the E. coli Chromosome. <i>Current Biology</i> , 2019 , 29, 2131-2144.e4	6.3	22
322	Shape and Size Control of Artificial Cells for Bottom-Up Biology. <i>ACS Nano</i> , 2019 , 13, 5439-5450	16.7	49
321	Visualization of unstained DNA nanostructures with advanced in-focus phase contrast TEM techniques. <i>Scientific Reports</i> , 2019 , 9, 7218	4.9	6
320	Bacteria-in-paper, a versatile platform to study bacterial ecology. <i>Ecology Letters</i> , 2019 , 22, 1316-1323	10	3
319	Direct imaging of the circular chromosome in a live bacterium. <i>Nature Communications</i> , 2019 , 10, 2194	17.4	25
318	An Integrated Microfluidic Platform for Quantifying Drug Permeation across Biomimetic Vesicle Membranes. <i>Molecular Pharmaceutics</i> , 2019 , 16, 2494-2501	5.6	22
317	Spatiotemporal control of coacervate formation within liposomes. <i>Nature Communications</i> , 2019 , 10, 1800	17.4	87
316	Movement dynamics of divisome proteins and PBP2x:FtsW in cells of. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3211-3220	11.5	59
315	Membrane Tension-Mediated Growth of Liposomes. <i>Small</i> , 2019 , 15, e1902898	11	23
314	1/f noise in solid-state nanopores is governed by access and surface regions. <i>Nanotechnology</i> , 2019 , 30, 395202	3.4	33
313	Distinct Roles for Condensin's Two ATPase Sites in Chromosome Condensation. <i>Molecular Cell</i> , 2019 , 76, 724-737.e5	17.6	20
312	Label-Free Detection of Post-translational Modifications with a Nanopore. <i>Nano Letters</i> , 2019 , 19, 7957-7964	16.4	48
311	Synthetic life on a chip. <i>Emerging Topics in Life Sciences</i> , 2019 , 3, 559-566	3.5	6
310	Label-Free Optical Detection of DNA Translocations through Plasmonic Nanopores. <i>ACS Nano</i> , 2019 , 13, 61-70	16.7	74
309	Intercalating Electron Dyes for TEM Visualization of DNA at the Single-Molecule Level. <i>ChemBioChem</i> , 2019 , 20, 822-830	3.8	4
308	Real-time imaging of DNA loop extrusion by condensin. <i>Science</i> , 2018 , 360, 102-105	33.3	357
307	Probing DNA Translocations with Inplane Current Signals in a Graphene Nanoribbon with a Nanopore. <i>ACS Nano</i> , 2018 , 12, 2623-2633	16.7	76
306	DNA origami scaffold for studying intrinsically disordered proteins of the nuclear pore complex. <i>Nature Communications</i> , 2018 , 9, 902	17.4	66

305	Reversible Immobilization of Proteins in Sensors and Solid-State Nanopores. <i>Small</i> , 2018 , 14, e1703357	11	22
304	Mechanical Division of Cell-Sized Liposomes. <i>ACS Nano</i> , 2018 , 12, 2560-2568	16.7	55
303	Lithography-based fabrication of nanopore arrays in freestanding SiN and graphene membranes. <i>Nanotechnology</i> , 2018 , 29, 145302	3.4	42
302	Integrating Sub-3 nm Plasmonic Gaps into Solid-State Nanopores. <i>Small</i> , 2018 , 14, e1703307	11	22
301	Direct observation of end resection by RecBCD during double-stranded DNA break repair in vivo. <i>Nucleic Acids Research</i> , 2018 , 46, 1821-1833	20.1	19
300	On-chip microfluidic production of cell-sized liposomes. <i>Nature Protocols</i> , 2018 , 13, 856-874	18.8	73
299	Double Barrel Nanopores as a New Tool for Controlling Single-Molecule Transport. <i>Nano Letters</i> , 2018 , 18, 2738-2745	11.5	50
298	Dividing the Archaeal Way: The Ancient Cdv Cell-Division Machinery. <i>Frontiers in Microbiology</i> , 2018 , 9, 174	5.7	26
297	FtsZ-Induced Shape Transformation of Coacervates. <i>Advanced Biology</i> , 2018 , 2, 1800136	3.5	14
296	DNA sequence encodes the position of DNA supercoils. <i>ELife</i> , 2018 , 7,	8.9	31
295	Tailoring the appearance: what will synthetic cells look like?. <i>Current Opinion in Biotechnology</i> , 2018 , 51, 47-56	11.4	56
294	Active Delivery of Single DNA Molecules into a Plasmonic Nanopore for Label-Free Optical Sensing. <i>Nano Letters</i> , 2018 , 18, 8003-8010	11.5	49
293	Mechanically controlled quantum interference in graphene break junctions. <i>Nature Nanotechnology</i> , 2018 , 13, 1126-1131	28.7	43
292	Detection of CRISPR-dCas9 on DNA with Solid-State Nanopores. <i>Nano Letters</i> , 2018 , 18, 6469-6474	11.5	52
291	Paving the way to single-molecule protein sequencing. <i>Nature Nanotechnology</i> , 2018 , 13, 786-796	28.7	172
290	Spatial structure of disordered proteins dictates conductance and selectivity in nuclear pore complex mimics. <i>ELife</i> , 2018 , 7,	8.9	15
289	The supercoiling state of DNA determines the handedness of both H3 and CENP-A nucleosomes. <i>Nanoscale</i> , 2017 , 9, 1862-1870	7.7	14
288	Treadmilling by FtsZ filaments drives peptidoglycan synthesis and bacterial cell division. <i>Science</i> , 2017 , 355, 739-743	33.3	335

287	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	7.3	44
286	Nanoscience and Nanotechnology Cross Borders. <i>ACS Nano</i> , 2017 , 11, 1123-1126	16.7	3
285	Annealing helicase HARP closes RPA-stabilized DNA bubbles non-processively. <i>Nucleic Acids Research</i> , 2017 , 45, 4687-4695	20.1	1
284	Distortion of DNA Origami on Graphene Imaged with Advanced TEM Techniques. <i>Small</i> , 2017 , 13, 1700876	16	12
283	On-chip density-based purification of liposomes. <i>Biomicrofluidics</i> , 2017 , 11, 034106	3.2	16
282	The condensin complex is a mechanochemical motor that translocates along DNA. <i>Science</i> , 2017 , 358, 672-676	33.3	197
281	SDS-assisted protein transport through solid-state nanopores. <i>Nanoscale</i> , 2017 , 9, 11685-11693	7.7	43
280	Through-membrane electron-beam lithography for ultrathin membrane applications. <i>Applied Physics Letters</i> , 2017 , 111, 063105	3.4	10
279	Catching DNA with hoops-biophysical approaches to clarify the mechanism of SMC proteins. <i>Nature Structural and Molecular Biology</i> , 2017 , 24, 1012-1020	17.6	9
278	Real-time detection of condensin-driven DNA compaction reveals a multistep binding mechanism. <i>EMBO Journal</i> , 2017 , 36, 3448-3457	13	55
277	Nanofabricated structures and microfluidic devices for bacteria: from techniques to biology. <i>Chemical Society Reviews</i> , 2016 , 45, 268-80	58.5	57
276	Density-dependent adaptive resistance allows swimming bacteria to colonize an antibiotic gradient. <i>ISME Journal</i> , 2016 , 10, 30-8	11.9	25
275	Direct observation of DNA knots using a solid-state nanopore. <i>Nature Nanotechnology</i> , 2016 , 11, 1093-1097	28.7	155
274	Mechanical Trapping of DNA in a Double-Nanopore System. <i>Nano Letters</i> , 2016 , 16, 8021-8028	11.5	47
273	In-situ electrical measurements of Graphene Nanoribbons fabricated through Scanning Transmission Electron Microscopy 2016 , 411-412		
272	Condensin Smc2-Smc4 Dimers Are Flexible and Dynamic. <i>Cell Reports</i> , 2016 , 14, 1813-8	10.6	69
271	Intercalation-Based Single-Molecule Fluorescence Assay To Study DNA Supercoil Dynamics. <i>Nano Letters</i> , 2016 , 16, 4699-707	11.5	35
270	Octanol-assisted liposome assembly on chip. <i>Nature Communications</i> , 2016 , 7, 10447	17.4	186

269	Bacterial predator-prey dynamics in microscale patchy landscapes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016 , 283,	4.4	38
268	Graphene nanodevices for DNA sequencing. <i>Nature Nanotechnology</i> , 2016 , 11, 127-36	28.7	398
267	New technologies for DNA analysis--a review of the READNA Project. <i>New Biotechnology</i> , 2016 , 33, 311-304	10	10
266	CENP-A and H3 Nucleosomes Display a Similar Stability to Force-Mediated Disassembly. <i>PLoS ONE</i> , 2016 , 11, e0165078	3.7	9
265	Mapping out Min protein patterns in fully confined fluidic chambers. <i>ELife</i> , 2016 , 5,	8.9	46
264	Multistability and dynamic transitions of intracellular Min protein patterns. <i>Molecular Systems Biology</i> , 2016 , 12, 873	12.2	44
263	CRISPR-mediated control of the bacterial initiation of replication. <i>Nucleic Acids Research</i> , 2016 , 44, 3801-10.1	30	30
262	Data analysis methods for solid-state nanopores. <i>Nanotechnology</i> , 2015 , 26, 084003	3.4	92
261	Two distinct DNA binding modes guide dual roles of a CRISPR-Cas protein complex. <i>Molecular Cell</i> , 2015 , 58, 60-70	17.6	85
260	DNA nanopore translocation in glutamate solutions. <i>Nanoscale</i> , 2015 , 7, 13605-9	7.7	14
259	Symmetry and scale orient Min protein patterns in shaped bacterial sculptures. <i>Nature Nanotechnology</i> , 2015 , 10, 719-26	28.7	76
258	Controlling defects in graphene for optimizing the electrical properties of graphene nanodevices. <i>ACS Nano</i> , 2015 , 9, 3428-35	16.7	179
257	Detection of Individual Proteins Bound along DNA Using Solid-State Nanopores. <i>Nano Letters</i> , 2015 , 15, 3153-8	11.5	103
256	Plasmonic Nanopores for Trapping, Controlling Displacement, and Sequencing of DNA. <i>ACS Nano</i> , 2015 , 9, 10598-611	16.7	117
255	The idiosyncrasy of spatial structure in bacterial competition. <i>BMC Research Notes</i> , 2015 , 8, 245	2.3	19
254	Self-Aligned Plasmonic Nanopores by Optically Controlled Dielectric Breakdown. <i>Nano Letters</i> , 2015 , 15, 7112-7	11.5	49
253	Dynamics of nucleosomal structures measured by high-speed atomic force microscopy. <i>Small</i> , 2015 , 11, 976-84	11	29
252	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015

251	Copper-free click chemistry for attachment of biomolecules in magnetic tweezers. <i>BMC Biophysics</i> , 2015 , 8, 9	0	22
250	Single-molecule sensing with nanopores. <i>Physics Today</i> , 2015 , 68, 40-46	0.9	47
249	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	5.7	20
248	Comparing the Assembly and Handedness Dynamics of (H3.3-H4) ₂ Tetrasomes to Canonical Tetrasomes. <i>PLoS ONE</i> , 2015 , 10, e0141267	3.7	11
247	Counterintuitive DNA Sequence Dependence in Supercoiling-Induced DNA Melting. <i>PLoS ONE</i> , 2015 , 10, e0141576	3.7	17
246	Temperature dependence of DNA translocations through solid-state nanopores. <i>Nanotechnology</i> , 2015 , 26, 234004	3.4	30
245	Photoresistance switching of plasmonic nanopores. <i>Nano Letters</i> , 2015 , 15, 776-82	11.5	35
244	Velocity of DNA during translocation through a solid-state nanopore. <i>Nano Letters</i> , 2015 , 15, 732-7	11.5	78
243	1/f noise in graphene nanopores. <i>Nanotechnology</i> , 2015 , 26, 074001	3.4	82
242	Nucleosome assembly dynamics involve spontaneous fluctuations in the handedness of tetrasomes. <i>Cell Reports</i> , 2015 , 10, 216-25	10.6	33
241	Experimental phase diagram of negatively supercoiled DNA measured by magnetic tweezers and fluorescence. <i>Nanoscale</i> , 2015 , 7, 3205-16	7.7	19
240	Systems and synthetic biology approaches to cell division. <i>Systems and Synthetic Biology</i> , 2014 , 8, 173-8		4
239	Ionic permeability and mechanical properties of DNA origami nanoplates on solid-state nanopores. <i>ACS Nano</i> , 2014 , 8, 35-43	16.7	68
238	A simple self-calibrating method to measure the height of fluorescent molecules and beads at nanoscale resolution. <i>Nano Letters</i> , 2014 , 14, 4469-75	11.5	3
237	Divided we stand: splitting synthetic cells for their proliferation. <i>Systems and Synthetic Biology</i> , 2014 , 8, 249-69		33
236	Nutrient-responsive regulation determines biodiversity in a colicin-mediated bacterial community. <i>BMC Biology</i> , 2014 , 12, 68	7.3	25
235	Skewed brownian fluctuations in single-molecule magnetic tweezers. <i>PLoS ONE</i> , 2014 , 9, e108271	3.7	8
234	Zooming in to see the bigger picture: microfluidic and nanofabrication tools to study bacteria. <i>Science</i> , 2014 , 346, 1251821	33.3	132

233	DNA translocations through solid-state plasmonic nanopores. <i>Nano Letters</i> , 2014 , 14, 6917-25	11.5	110
232	Fast translocation of proteins through solid state nanopores. <i>Nano Letters</i> , 2013 , 13, 658-63	11.5	256
231	Tailoring the hydrophobicity of graphene for its use as nanopores for DNA translocation. <i>Nature Communications</i> , 2013 , 4, 2619	17.4	142
230	Periodic modulations of optical tweezers near solid-state membranes. <i>Small</i> , 2013 , 9, 679-84	11	5
229	Plasmonic nanopore for electrical profiling of optical intensity landscapes. <i>Nano Letters</i> , 2013 , 13, 1029-33	11.5	81
228	Controllable atomic scale patterning of freestanding monolayer graphene at elevated temperature. <i>ACS Nano</i> , 2013 , 7, 1566-72	16.7	90
227	Non-equilibrium folding of individual DNA molecules recaptured up to 1000 times in a solid state nanopore. <i>Nanotechnology</i> , 2013 , 24, 475101	3.4	27
226	Scanning a DNA molecule for bound proteins using hybrid magnetic and optical tweezers. <i>PLoS ONE</i> , 2013 , 8, e65329	3.7	17
225	Spatial structure facilitates cooperation in a social dilemma: empirical evidence from a bacterial community. <i>PLoS ONE</i> , 2013 , 8, e77042	3.7	43
224	Detection of nucleosomal substructures using solid-state nanopores. <i>Nano Letters</i> , 2012 , 12, 3180-6	11.5	55
223	Recent advances in magnetic tweezers. <i>Annual Review of Biophysics</i> , 2012 , 41, 453-72	21.1	244
222	Mechanism of homology recognition in DNA recombination from dual-molecule experiments. <i>Molecular Cell</i> , 2012 , 46, 616-24	17.6	66
221	Formation and control of wrinkles in graphene by the wedging transfer method. <i>Applied Physics Letters</i> , 2012 , 101, 103116	3.4	102
220	Non-bias-limited tracking of spherical particles, enabling nanometer resolution at low magnification. <i>Biophysical Journal</i> , 2012 , 102, 2362-71	2.9	74
219	Measuring single-wall carbon nanotubes with solid-state nanopores. <i>Methods in Molecular Biology</i> , 2012 , 870, 227-39	1.4	3
218	Measurement of the docking time of a DNA molecule onto a solid-state nanopore. <i>Nano Letters</i> , 2012 , 12, 4159-63	11.5	52
217	Slowing down DNA translocation through a nanopore in lithium chloride. <i>Nano Letters</i> , 2012 , 12, 1038-44	11.5	278
216	Rapid manufacturing of low-noise membranes for nanopore sensors by trans-chip illumination lithography. <i>Nanotechnology</i> , 2012 , 23, 475302	3.4	24

215	Reply to Comment on Modeling the conductance and DNA blockade of solid-state nanopores. <i>Nanotechnology</i> , 2012 , 23, 088002	3.4	3
214	Dynamics of DNA supercoils. <i>Science</i> , 2012 , 338, 94-7	33.3	140
213	Robustness and accuracy of cell division in Escherichia coli in diverse cell shapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 6957-62	11.5	82
212	Magnetic forces and DNA mechanics in multiplexed magnetic tweezers. <i>PLoS ONE</i> , 2012 , 7, e41432	3.7	55
211	NAP1-assisted nucleosome assembly on DNA measured in real time by single-molecule magnetic tweezers. <i>PLoS ONE</i> , 2012 , 7, e46306	3.7	26
210	Molecular Detection and Force Spectroscopy in Solid-State Nanopores with Integrated Optical Tweezers 2011 , 35-49		
209	Modeling the conductance and DNA blockade of solid-state nanopores. <i>Nanotechnology</i> , 2011 , 22, 3151014	3.4	301
208	Single-molecule transport across an individual biomimetic nuclear pore complex. <i>Nature Nanotechnology</i> , 2011 , 6, 433-8	28.7	190
207	High-speed AFM reveals the dynamics of single biomolecules at the nanometer scale. <i>Cell</i> , 2011 , 147, 979-82	56.2	66
206	Biomimetic nanopores: learning from and about nature. <i>Trends in Biotechnology</i> , 2011 , 29, 607-14	15.1	140
205	Highly parallel magnetic tweezers by targeted DNA tethering. <i>Nano Letters</i> , 2011 , 11, 5489-93	11.5	89
204	Translocation of single-wall carbon nanotubes through solid-state nanopores. <i>Nano Letters</i> , 2011 , 11, 2446-50	11.5	24
203	Atomic-scale electron-beam sculpting of near-defect-free graphene nanostructures. <i>Nano Letters</i> , 2011 , 11, 2247-50	11.5	217
202	Effect of the BRCA2 CTRD domain on RAD51 filaments analyzed by an ensemble of single molecule techniques. <i>Nucleic Acids Research</i> , 2011 , 39, 6558-67	20.1	10
201	Hybrid pore formation by directed insertion of Haemolysin into solid-state nanopores. <i>Nature Nanotechnology</i> , 2010 , 5, 874-7	28.7	231
200	Torsional regulation of hRPA-induced unwinding of double-stranded DNA. <i>Nucleic Acids Research</i> , 2010 , 38, 4133-42	20.1	38
199	Controlling nanopore size, shape and stability. <i>Nanotechnology</i> , 2010 , 21, 115304	3.4	100
198	Detection of local protein structures along DNA using solid-state nanopores. <i>Nano Letters</i> , 2010 , 10, 324-8	11.5	197

197	Unraveling single-stranded DNA in a solid-state nanopore. <i>Nano Letters</i> , 2010 , 10, 1414-20	11.5	88
196	Influence of electrolyte composition on liquid-gated carbon nanotube and graphene transistors. <i>Journal of the American Chemical Society</i> , 2010 , 132, 17149-56	16.4	139
195	Wedging transfer of nanostructures. <i>Nano Letters</i> , 2010 , 10, 1912-6	11.5	153
194	Charge noise in graphene transistors. <i>Nano Letters</i> , 2010 , 10, 1563-7	11.5	94
193	Electrokinetic concentration of DNA polymers in nanofluidic channels. <i>Nano Letters</i> , 2010 , 10, 765-72	11.5	65
192	Note: Interference technique for minimally invasive, subnanometer, microsecond measurements of displacements. <i>Review of Scientific Instruments</i> , 2010 , 81, 016103	1.7	
191	DNA translocation through graphene nanopores. <i>Nano Letters</i> , 2010 , 10, 3163-7	11.5	782
190	Bacterial growth and motility in sub-micron constrictions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14861-6	11.5	195
189	Electrophoretic force on a protein-coated DNA molecule in a solid-state nanopore. <i>Nano Letters</i> , 2009 , 9, 4441-5	11.5	59
188	Dynamics of RecA filaments on single-stranded DNA. <i>Nucleic Acids Research</i> , 2009 , 37, 4089-99	20.1	66
187	Low-frequency noise in solid-state nanopores. <i>Nanotechnology</i> , 2009 , 20, 095501	3.4	73
186	Probing macrophage activity with carbon-nanotube sensors. <i>Small</i> , 2009 , 5, 2528-32	11	23
185	Origin of the electrophoretic force on DNA in solid-state nanopores. <i>Nature Physics</i> , 2009 , 5, 347-351	16.2	287
184	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	2.5	10
183	Translocation of RecA-coated double-stranded DNA through solid-state nanopores. <i>Nano Letters</i> , 2009 , 9, 3089-96	11.5	118
182	Distinguishing single- and double-stranded nucleic acid molecules using solid-state nanopores. <i>Nano Letters</i> , 2009 , 9, 2953-60	11.5	127
181	Control of shape and material composition of solid-state nanopores. <i>Nano Letters</i> , 2009 , 9, 479-84	11.5	88
180	Optimizing the signal-to-noise ratio for biosensing with carbon nanotube transistors. <i>Nano Letters</i> , 2009 , 9, 377-82	11.5	68

179	Solid-state nanopores 2009 , 60-66		1
178	Inserting and manipulating DNA in a nanopore with optical tweezers. <i>Methods in Molecular Biology</i> , 2009 , 544, 95-112	1.4	7
177	Motor step size and ATP coupling efficiency of the dsDNA translocase EcoR124I. <i>EMBO Journal</i> , 2008 , 27, 1388-98	13	58
176	Monte carlo simulations of protein assembly, disassembly, and linear motion on DNA. <i>Biophysical Journal</i> , 2008 , 95, 4560-9	2.9	7
175	Toward single-enzyme molecule electrochemistry: [NiFe]-hydrogenase protein film voltammetry at nanoelectrodes. <i>ACS Nano</i> , 2008 , 2, 2497-504	16.7	85
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17	Real-time detection of condensin-driven DNA compaction reveals a multistep binding mechanism	3
16	DNA sequence encodes the position of DNA supercoils	2
15	AFM images of open and collapsed states of yeast condensin suggest a scrunching model for DNA loop extrusion	4
14	Bulk-surface coupling reconciles Min-protein pattern formation in vitro and in vivo	5
13	Phase separation induced by cohesin SMC protein complexes	8
12	FtsZ treadmilling is essential for Z-ring condensation and septal constriction initiation in <i>Bacillus subtilis</i> cell division	5
11	Resolving the step size in condensin-driven DNA loop extrusion identifies ATP binding as the step-generating process	8
10	Direct imaging of the circular chromosome in a live bacterium	2
9	Cell boundary confinement sets the size and position of the <i>E. coli</i> chromosome	4
8	DNA-loop extruding condensin complexes can traverse one another	4
7	Nanopore electro-osmotic trap for the label-free study of single proteins and their conformations	4
6	Condensin-driven loop extrusion on supercoiled DNA	1
5	Infinite re-reading of single proteins at single-amino-acid resolution using nanopore sequencing	3
4	Optimized cDICE for efficient reconstitution of biological systems in giant unilamellar vesicles	2
3	Reconstitution of ultrawide DNA origami pores in liposomes for transmembrane transport of macromolecules	1
2	SMC complexes can traverse physical roadblocks bigger than their ring size	10
1	Probing nanomotion of single bacteria with graphene drums	1