Cees Dekker

List of Publications by Citations

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	Room-temperature transistor based on a single carbon nanotube. *Nature*, **1998**, 393, 49-52	50.4	4626
357	Electronic structure of atomically resolved carbon nanotubes. *Nature*, **1998**, 391, 59-62	50.4	2591
356	Individual single-wall carbon nanotubes as quantum wires. *Nature*, **1997**, 386, 474-477	50.4	2526
355	Logic circuits with carbon nanotube transistors. *Science*, **2001**, 294, 1317-20	33.3	2204
354	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. *Nanoscale*, **2015**, 7, 4598-810	7.7	2015
353	Solid-state nanopores. *Nature Nanotechnology*, **2007**, 2, 209-15	28.7	1525
352	Carbon nanotube intramolecular junctions. *Nature*, **1999**, 402, 273-276	50.4	1477
351	Direct measurement of electrical transport through DNA molecules. *Nature*, **2000**, 403, 635-8	50.4	1464
350	High-field electrical transport in single-wall carbon nanotubes. *Physical Review Letters*, **2000**, 84, 2941-4	7.4	1200
349	Enzyme-Coated Carbon Nanotubes as Single-Molecule Biosensors. *Nano Letters*, **2003**, 3, 727-730	11.5	1129
348	Carbon Nanotubes as Molecular Quantum Wires. *Physics Today*, **1999**, 52, 22-28	0.9	1123
347	Fabrication of solid-state nanopores with single-nanometre precision. *Nature Materials*, **2003**, 2, 537-40	27	1048
346	Carbon nanotube single-electron transistors at room temperature. *Science*, **2001**, 293, 76-9	33.3	913
345	Surface-charge-governed ion transport in nanofluidic channels. *Physical Review Letters*, **2004**, 93, 035901	7.4	783
344	DNA translocation through graphene nanopores. *Nano Letters*, **2010**, 10, 3163-7	11.5	782
343	Salt dependence of ion transport and DNA translocation through solid-state nanopores. *Nano Letters*, **2006**, 6, 89-95	11.5	625
342	Fast DNA translocation through a solid-state nanopore. *Nano Letters*, **2005**, 5, 1193-7	11.5	622

341	Direct force measurements on DNA in a solid-state nanopore. *Nature Physics*, **2006**, 2, 473-477	16.2	511
340	Motor proteins at work for nanotechnology. *Science*, **2007**, 317, 333-6	33.3	442
339	Nanotechnology: carbon nanotubes with DNA recognition. *Nature*, **2002**, 420, 761	50.4	419
338	Graphene nanodevices for DNA sequencing. *Nature Nanotechnology*, **2016**, 11, 127-36	28.7	398
337	Power generation by pressure-driven transport of ions in nanofluidic channels. *Nano Letters*, **2007**, 7, 1022-5	11.5	391
336	Electrostatic trapping of single conducting nanoparticles between nanoelectrodes. *Applied Physics Letters*, **1997**, 71, 1273-1275	3.4	381
335	Human Rad50/Mre11 is a flexible complex that can tether DNA ends. *Molecular Cell*, **2001**, 8, 1129-35	17.6	378
334	Insulating behavior for DNA molecules between nanoelectrodes at the 100 nm length scale. *Applied Physics Letters*, **2001**, 79, 3881-3883	3.4	374
333	Electrodeposition of noble metal nanoparticles on carbon nanotubes. *Journal of the American Chemical Society*, **2005**, 127, 6146-7	16.4	369
332	Real-time imaging of DNA loop extrusion by condensin. *Science*, **2018**, 360, 102-105	33.3	357
331	Identifying the mechanism of biosensing with carbon nanotube transistors. *Nano Letters*, **2008**, 8, 591-5	11.5	355
330	Translocation of double-strand DNA through a silicon oxide nanopore. *Physical Review E*, **2005**, 71, 051903	2.4	351
329	Fullerene 'crop circles'. *Nature*, **1997**, 385, 780-781	50.4	346
328	Streaming currents in a single nanofluidic channel. *Physical Review Letters*, **2005**, 95, 116104	7.4	344
327	Treadmilling by FtsZ filaments drives peptidoglycan synthesis and bacterial cell division. *Science*, **2017**, 355, 739-743	33.3	335
326	Orbital Kondo effect in carbon nanotubes. *Nature*, **2005**, 434, 484-8	50.4	315
325	High flexibility of DNA on short length scales probed by atomic force microscopy. *Nature Nanotechnology*, **2006**, 1, 137-41	28.7	312
324	Electrokinetic energy conversion efficiency in nanofluidic channels. *Nano Letters*, **2006**, 6, 2232-7	11.5	311

323	Modeling the conductance and DNA blockade of solid-state nanopores. *Nanotechnology*, **2011**, 22, 315101	3.4	301
322	Origin of the electrophoretic force on DNA in solid-state nanopores. *Nature Physics*, **2009**, 5, 347-351	16.2	287
321	Electrical generation and absorption of phonons in carbon nanotubes. *Nature*, **2004**, 432, 371-4	50.4	282
320	Slowing down DNA translocation through a nanopore in lithium chloride. *Nano Letters*, **2012**, 12, 1038-44	11.5	278
319	Imaging electron wave functions of quantized energy levels in carbon nanotubes. *Science*, **1999**, 283, 52-5	33.3	278
318	Multiprobe Transport Experiments on Individual Single-Wall Carbon Nanotubes. *Physical Review Letters*, **1998**, 80, 4036-4039	7.4	275
317	Individual single-walled carbon nanotubes as nanoelectrodes for electrochemistry. *Nano Letters*, **2005**, 5, 137-42	11.5	273
316	Noise in solid-state nanopores. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 417-21	11.5	265
315	Friction and torque govern the relaxation of DNA supercoils by eukaryotic topoisomerase IB. *Nature*, **2005**, 434, 671-4	50.4	263
314	Fast translocation of proteins through solid state nanopores. *Nano Letters*, **2013**, 13, 658-63	11.5	256
313	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, 6969-74	11.5	249
312	Recent advances in magnetic tweezers. *Annual Review of Biophysics*, **2012**, 41, 453-72	21.1	244
311	Hybrid pore formation by directed insertion of α-haemolysin into solid-state nanopores. *Nature Nanotechnology*, **2010**, 5, 874-7	28.7	231
310	Electronic properties of DNA. *Physics World*, **2001**, 14, 29-33	0.5	228
309	Electron–electron correlations in carbon nanotubes. *Nature*, **1998**, 394, 761-764	50.4	224
308	Atomic-scale electron-beam sculpting of near-defect-free graphene nanostructures. *Nano Letters*, **2011**, 11, 2247-50	11.5	217
307	Mesoscale conformational changes in the DNA-repair complex Rad50/Mre11/Nbs1 upon binding DNA. *Nature*, **2005**, 437, 440-3	50.4	213
306	Tunneling in suspended carbon nanotubes assisted by longitudinal phonons. *Physical Review Letters* , **2006**, 96, 026801	7.4	212

305	Activated dynamics in a two-dimensional Ising spin glass: Rb2Cu1-xCoxF4. *Physical Review B*, **1989**, 40, 11243-11251	3.3	211
304	Charge inversion at high ionic strength studied by streaming currents. *Physical Review Letters*, **2006**, 96, 224502	7.4	204
303	Single-molecule measurements of the persistence length of double-stranded RNA. *Biophysical Journal*, **2005**, 88, 2737-44	2.9	199
302	Electron-hole symmetry in a semiconducting carbon nanotube quantum dot. *Nature*, **2004**, 429, 389-92	50.4	199
301	The condensin complex is a mechanochemical motor that translocates along DNA. *Science*, **2017**, 358, 672-676	33.3	197
300	Detection of local protein structures along DNA using solid-state nanopores. *Nano Letters*, **2010**, 10, 324-8	11.5	197
299	Temperature-dependent resistivity of single-wall carbon nanotubes. *Europhysics Letters*, **1998**, 41, 683-688	2.8	197
298	Molecular sorting by electrical steering of microtubules in kinesin-coated channels. *Science*, **2006**, 312, 910-4	33.3	196
297	Bacterial growth and motility in sub-micron constrictions. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 14861-6	11.5	195
296	Single-molecule transport across an individual biomimetic nuclear pore complex. *Nature Nanotechnology*, **2011**, 6, 433-8	28.7	190
295	Electrochemistry at single-walled carbon nanotubes: the role of band structure and quantum capacitance. *Journal of the American Chemical Society*, **2006**, 128, 7353-9	16.4	188
294	Octanol-assisted liposome assembly on chip. *Nature Communications*, **2016**, 7, 10447	17.4	186
293	Controlling defects in graphene for optimizing the electrical properties of graphene nanodevices. *ACS Nano*, **2015**, 9, 3428-35	16.7	179
292	Two-dimensional imaging of electronic wavefunctions in carbon nanotubes. *Nature*, **2001**, 412, 617-20	50.4	179
291	Backbone-induced semiconducting behavior in short DNA wires. *Physical Review B*, **2002**, 65,	3.3	179
290	Electrical transport through carbon nanotube junctions created by mechanical manipulation. *Physical Review B*, **2000**, 62, R10653-R10656	3.3	173
289	Paving the way to single-molecule protein sequencing. *Nature Nanotechnology*, **2018**, 13, 786-796	28.7	172
288	Direct observation of DNA knots using a solid-state nanopore. *Nature Nanotechnology*, **2016**, 11, 1093-1097	28.7	155

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286	Wedging transfer of nanostructures. *Nano Letters*, **2010**, 10, 1912-6	11.5	153
285	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, 15853-8	11.5	147
284	Atomic structure of carbon nanotubes from scanning tunneling microscopy. *Physical Review B*, **2000**, 61, 2991-2996	3.3	144
283	Tailoring the hydrophobicity of graphene for its use as nanopores for DNA translocation. *Nature Communications*, **2013**, 4, 2619	17.4	142
282	Dynamics of DNA supercoils. *Science*, **2012**, 338, 94-7	33.3	140
281	Biomimetic nanopores: learning from and about nature. *Trends in Biotechnology*, **2011**, 29, 607-14	15.1	140
280	Absence of Strong Gate Effects in Electrical Measurements on Phenylene-Based Conjugated Molecules. *Nano Letters*, **2003**, 3, 113-117	11.5	140
279	Influence of electrolyte composition on liquid-gated carbon nanotube and graphene transistors. *Journal of the American Chemical Society*, **2010**, 132, 17149-56	16.4	139
278	Length control of individual carbon nanotubes by nanostructuring with a scanning tunneling microscope. *Applied Physics Letters*, **1997**, 71, 2629-2631	3.4	136
277	Zooming in to see the bigger picture: microfluidic and nanofabrication tools to study bacteria. *Science*, **2014**, 346, 1251821	33.3	132
276	Distinguishing single- and double-stranded nucleic acid molecules using solid-state nanopores. *Nano Letters*, **2009**, 9, 2953-60	11.5	127
275	Measurement of the exponent micro in the low-temperature phase of YBa2Cu3O7- delta films in a magnetic field: Direct evidence for a vortex-glass phase. *Physical Review Letters*, **1992**, 68, 3347-3350	7.4	127
274	Fabrication and characterization of nanopore-based electrodes with radii down to 2 nm. *Nano Letters*, **2006**, 6, 105-9	11.5	125
273	Translocation of RecA-coated double-stranded DNA through solid-state nanopores. *Nano Letters*, **2009**, 9, 3089-96	11.5	118
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271	Plasmonic Nanopores for Trapping, Controlling Displacement, and Sequencing of DNA. *ACS Nano*, **2015**, 9, 10598-611	16.7	117
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269	Carbon nanotube biosensors: The critical role of the reference electrode. *Applied Physics Letters*, **2007**, 91, 093507	3.4	111
268	DNA translocations through solid-state plasmonic nanopores. *Nano Letters*, **2014**, 14, 6917-25	11.5	110
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266	Direct immobilization of native yeast iso-1 cytochrome C on bare gold: fast electron relay to redox enzymes and zeptomole protein-film voltammetry. *Journal of the American Chemical Society*, **2004**, 126, 11103-12	16.4	110
265	Nanobubbles in solid-state nanopores. *Physical Review Letters*, **2006**, 97, 088101	7.4	106
264	Spatially resolved scanning tunneling spectroscopy on single-walled carbon nanotubes. *Physical Review B*, **2000**, 62, 5238-5244	3.3	106
263	Detection of Individual Proteins Bound along DNA Using Solid-State Nanopores. *Nano Letters*, **2015** , 15, 3153-8	11.5	103
262	Human Rad51 filaments on double- and single-stranded DNA: correlating regular and irregular forms with recombination function. *Nucleic Acids Research*, **2005**, 33, 3292-302	20.1	103
261	Absence of a finite-temperature vortex-glass phase transition in two-dimensional YBa2Cu3O7-delta films. *Physical Review Letters*, **1992**, 69, 2717-2720	7.4	103
260	Formation and control of wrinkles in graphene by the wedging transfer method. *Applied Physics Letters*, **2012**, 101, 103116	3.4	102
259	Real-time observation of DNA translocation by the type I restriction modification enzyme EcoR124I. *Nature Structural and Molecular Biology*, **2004**, 11, 838-43	17.6	102
258	Controlling nanopore size, shape and stability. *Nanotechnology*, **2010**, 21, 115304	3.4	100
257	Charge noise in graphene transistors. *Nano Letters*, **2010**, 10, 1563-7	11.5	94
256	Data analysis methods for solid-state nanopores. *Nanotechnology*, **2015**, 26, 084003	3.4	92
255	Controllable atomic scale patterning of freestanding monolayer graphene at elevated temperature. *ACS Nano*, **2013**, 7, 1566-72	16.7	90
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252	Control of shape and material composition of solid-state nanopores. *Nano Letters*, **2009**, 9, 479-84	11.5	88

251	Spontaneous resistance switching and low-frequency noise in quantum point contacts. *Physical Review Letters*, **1991**, 66, 2148-2151	7.4	88
250	Spatiotemporal control of coacervate formation within liposomes. *Nature Communications*, **2019**, 10, 1800	17.4	87
249	Two distinct DNA binding modes guide dual roles of a CRISPR-Cas protein complex. *Molecular Cell*, **2015**, 58, 60-70	17.6	85
248	Toward single-enzyme molecule electrochemistry: [NiFe]-hydrogenase protein film voltammetry at nanoelectrodes. *ACS Nano*, **2008**, 2, 2497-504	16.7	85
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246	Real-time assembly and disassembly of human RAD51 filaments on individual DNA molecules. *Nucleic Acids Research*, **2007**, 35, 5646-57	20.1	84
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244	Robustness and accuracy of cell division in Escherichia coli in diverse cell shapes. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 6957-62	11.5	82
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242	Electronic transport spectroscopy of carbon nanotubes in a magnetic field. *Physical Review Letters*, **2005**, 94, 156802	7.4	81
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235	Non-bias-limited tracking of spherical particles, enabling nanometer resolution at low magnification. *Biophysical Journal*, **2012**, 102, 2362-71	2.9	74
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232	Low-frequency noise in solid-state nanopores. *Nanotechnology*, **2009**, 20, 095501	3.4	73
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212	Electron-beam-induced deformations of SiO2 nanostructures. *Journal of Applied Physics*, **2005**, 98, 014307	2.5	58
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207	Real-time detection of condensin-driven DNA compaction reveals a multistep binding mechanism. *EMBO Journal*, **2017**, 36, 3448-3457	13	55
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202	When a helicase is not a helicase: dsDNA tracking by the motor protein EcoR124I. *EMBO Journal*, **2006**, 25, 2230-9	13	52
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200	Single-molecule studies of nucleic acid motors. *Current Opinion in Structural Biology*, **2007**, 17, 80-6	8.1	51
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196	Nano-Optical Tweezing of Single Proteins in Plasmonic Nanopores. *Small Methods*, **2019**, 3, 1800465	12.8	49
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192	Label-Free Detection of Post-translational Modifications with a Nanopore. *Nano Letters*, **2019**, 19, 7957-7964	11.5	48
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174	Scanning tunneling spectroscopy of suspended single-wall carbon nanotubes. *Applied Physics Letters*, **2004**, 84, 4280-4282	3.4	42
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172	Finite-size effects on the vortex-glass transition in thin YBa2Cu3O7- delta films. *Physical Review B*, **1995**, 52, 4536-4544	3.3	41
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18	DNA sequence encodes the position of DNA supercoils		2

List of Publications

17	Direct imaging of the circular chromosome in a live bacterium		2
16	Optimized cDICE for efficient reconstitution of biological systems in giant unilamellar vesicles		2
15	Annealing helicase HARP closes RPA-stabilized DNA bubbles non-processively. *Nucleic Acids Research*, **2017**, 45, 4687-4695	20.1	1
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