

# John van Noort

## List of Publications by Year in descending order

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83  
papers

4,351  
citations

126858

33  
h-index

118793

62  
g-index

86  
all docs

86  
docs citations

86  
times ranked

4655  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Method for Genetically Installing Site-Specific Acetylation in Recombinant Histones Defines the Effects of H3 K56 Acetylation. <i>Molecular Cell</i> , 2009, 36, 153-163.	4.5	453
2	Human Rad50/Mre11 Is a Flexible Complex that Can Tether DNA Ends. <i>Molecular Cell</i> , 2001, 8, 1129-1135.	4.5	437
3	Insulating behavior for DNA molecules between nanoelectrodes at the 100 nm length scale. <i>Applied Physics Letters</i> , 2001, 79, 3881-3883.	1.5	419
4	Dual architectural roles of HU: Formation of flexible hinges and rigid filaments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 6969-6974.	3.3	272
5	Single-molecule force spectroscopy reveals a highly compliant helical folding for the 30-nm chromatin fiber. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 534-540.	3.6	230
6	Transcriptional Regulation of the Ambient Temperature Response by H2A.Z Nucleosomes and HSF1 Transcription Factors in Arabidopsis. <i>Molecular Plant</i> , 2017, 10, 1258-1273.	3.9	169
7	Height anomalies in tapping mode atomic force microscopy in air caused by adhesion. <i>Ultramicroscopy</i> , 1997, 69, 117-127.	0.8	136
8	Human Rad51 filaments on double- and single-stranded DNA: correlating regular and irregular forms with recombination function. <i>Nucleic Acids Research</i> , 2005, 33, 3292-3302.	6.5	116
9	Dextran based photodegradable hydrogels formed via a Michael addition. <i>Soft Matter</i> , 2011, 7, 4881.	1.2	113
10	Real-time observation of DNA translocation by the type I restriction modification enzyme EcoR124I. <i>Nature Structural and Molecular Biology</i> , 2004, 11, 838-843.	3.6	111
11	spFRET Using Alternating Excitation and FCS Reveals Progressive DNA Unwrapping in Nucleosomes. <i>Biophysical Journal</i> , 2009, 97, 195-204.	0.2	108
12	Single-Pair FRET Microscopy Reveals Mononucleosome Dynamics. <i>Journal of Fluorescence</i> , 2007, 17, 785-795.	1.3	105
13	Direct Visualization of Dynamic Protein-DNA Interactions with a Dedicated Atomic Force Microscope. <i>Biophysical Journal</i> , 1998, 74, 2840-2849.	0.2	96
14	Nucleosomes can invade DNA territories occupied by their neighbors. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 151-158.	3.6	95
15	Quantitative analysis of single-molecule force spectroscopy on folded chromatin fibers. <i>Nucleic Acids Research</i> , 2015, 43, 3578-3590.	6.5	86
16	The coiled-coil of the human Rad50 DNA repair protein contains specific segments of increased flexibility. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7581-7586.	3.3	82
17	Sequence-based prediction of single nucleosome positioning and genome-wide nucleosome occupancy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E2514-22.	3.3	70
18	Single-pair FRET experiments on nucleosome conformational dynamics. <i>Biochimie</i> , 2010, 92, 1729-1740.	1.3	69

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19	Subpiconewton Dynamic Force Spectroscopy Using Magnetic Tweezers. <i>Biophysical Journal</i> , 2008, 94, 2343-2348.	0.2	65
20	Hidden Markov Analysis of Nucleosome Unwrapping Under Force. <i>Biophysical Journal</i> , 2009, 96, 3708-3715.	0.2	62
21	Light-triggered switching of liposome surface charge directs delivery of membrane impermeable payloads in vivo. <i>Nature Communications</i> , 2020, 11, 3638.	5.8	62
22	Nucleosome dynamics: Sequence matters. <i>Advances in Colloid and Interface Science</i> , 2016, 232, 101-113.	7.0	61
23	10 Years of Tension on Chromatin: Results from Single Molecule Force Spectroscopy. <i>Current Pharmaceutical Biotechnology</i> , 2009, 10, 474-485.	0.9	58
24	Parallel Nanometric 3D Tracking of Intracellular Gold Nanorods Using Multifocal Two-Photon Microscopy. <i>Nano Letters</i> , 2013, 13, 980-986.	4.5	57
25	Single-Molecule Microscopy Reveals Membrane Microdomain Organization of Cells in a Living Vertebrate. <i>Biophysical Journal</i> , 2009, 97, 1206-1214.	0.2	53
26	Near-field optical microscopy for DNA studies at the single molecular level. <i>Bioimaging</i> , 1998, 6, 43-53.	1.8	48
27	Chromatin fibers stabilize nucleosomes under torsional stress. <i>Nature Communications</i> , 2020, 11, 126.	5.8	46
28	Multiplexing Genetic and Nucleosome Positioning Codes: A Computational Approach. <i>PLoS ONE</i> , 2016, 11, e0156905.	1.1	43
29	DNA bending by photolyase in specific and non-specific complexes studied by atomic force microscopy. <i>Nucleic Acids Research</i> , 1999, 27, 3875-3880.	6.5	42
30	Multiple Aspects of ATP-Dependent Nucleosome Translocation by RSC and Mi-2 Are Directed by the Underlying DNA Sequence. <i>PLoS ONE</i> , 2009, 4, e6345.	1.1	40
31	Mapping Electrostatic Forces Using Higher Harmonics Tapping Mode Atomic Force Microscopy in Liquid. <i>Langmuir</i> , 1999, 15, 7101-7107.	1.6	39
32	Crenarchaeal chromatin proteins Cren7 and Sul7 compact DNA by inducing rigid bends. <i>Nucleic Acids Research</i> , 2013, 41, 196-205.	6.5	39
33	Torque-limited RecA polymerization on dsDNA. <i>Nucleic Acids Research</i> , 2005, 33, 2099-2105.	6.5	37
34	Coexistence of Twisted, Plectonemic, and Melted DNA in Small Topological Domains. <i>Biophysical Journal</i> , 2014, 106, 1174-1181.	0.2	36
35	High Speed Atomic Force Microscopy of Biomolecules by Image Tracking. <i>Biophysical Journal</i> , 1999, 77, 2295-2303.	0.2	34
36	Histone H3 phosphorylation near the nucleosome dyad alters chromatin structure. <i>Nucleic Acids Research</i> , 2014, 42, 4922-4933.	6.5	34

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37	Dynamics of initiation, termination and reinitiation of DNA translocation by the motor protein EcoR124I. <i>EMBO Journal</i> , 2005, 24, 4188-4197.	3.5	33
38	Single-molecule force spectroscopy on histone H4 tail-cross-linked chromatin reveals fiber folding. <i>Journal of Biological Chemistry</i> , 2017, 292, 17506-17513.	1.6	33
39	Initiation of translocation by Type I restriction-modification enzymes is associated with a short DNA extrusion. <i>Nucleic Acids Research</i> , 2004, 32, 6540-6547.	6.5	30
40	Single-molecule analysis reveals two separate DNA-binding domains in the <i>Escherichia coli</i> UvrA dimer. <i>Nucleic Acids Research</i> , 2009, 37, 1962-1972.	6.5	25
41	Nucleosome Immobilization Strategies for Single- $\epsilon$ Pair FRET Microscopy. <i>ChemPhysChem</i> , 2008, 9, 2002-2009.	1.0	23
42	Atomic force microscopy of pollen grains, cellulose microfibrils, and protoplasts. <i>Protoplasma</i> , 1996, 194, 29-39.	1.0	19
43	Rigid Basepair Monte Carlo Simulations of One-Start and Two-Start Chromatin Fiber Unfolding by Force. <i>Biophysical Journal</i> , 2018, 115, 1848-1859.	0.2	19
44	A critical role for linker DNA in higher-order folding of chromatin fibers. <i>Nucleic Acids Research</i> , 2021, 49, 2537-2551.	6.5	19
45	spFRET reveals changes in nucleosome breathing by neighboring nucleosomes. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 064103.	0.7	17
46	Probing Chromatin Structure with Magnetic Tweezers. <i>Methods in Molecular Biology</i> , 2018, 1814, 297-323.	0.4	17
47	Mechanical and structural properties of archaeal hypernucleosomes. <i>Nucleic Acids Research</i> , 2021, 49, 4338-4349.	6.5	16
48	Displacement imaging in porous media using the line scan NMR technique. <i>Geoderma</i> , 1997, 80, 405-416.	2.3	14
49	Optimization of adhesion mode atomic force microscopy resolves individual molecules in topography and adhesion. <i>Ultramicroscopy</i> , 1999, 80, 133-144.	0.8	11
50	Toehold-enhanced LNA probes for selective pull down and single-molecule analysis of native chromatin. <i>Scientific Reports</i> , 2017, 7, 16721.	1.6	11
51	Unraveling DNA Organization with Single-Molecule Force Spectroscopy Using Magnetic Tweezers. <i>Methods in Molecular Biology</i> , 2018, 1837, 317-349.	0.4	10
52	Multiplexed Nanometric 3D Tracking of Microbeads Using an FFT-Phasor Algorithm. <i>Biophysical Journal</i> , 2020, 118, 2245-2257.	0.2	7
53	Bending moduli and spontaneous curvature in one-phase microemulsion systems. A molecular approach. <i>Faraday Discussions</i> , 1996, 104, 317.	1.6	6
54	Exploring molecular biology in sequence space: The road to next-generation single-molecule biophysics. <i>Molecular Cell</i> , 2022, 82, 1788-1805.	4.5	3

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55	Unraveling Bacteriorhodopsin. <i>Biophysical Journal</i> , 2005, 88, 763-764.	0.2	2
56	Regulation of Nucleosome Conformational Dynamics by Post-Translational Histone Modifications Studied with Single-Pair FRET. <i>Biophysical Journal</i> , 2010, 98, 475a.	0.2	2
57	Accuracy of the detection of binding events using 3D single particle tracking. <i>BMC Biophysics</i> , 2017, 10, 3.	4.4	2
58	Coating Gold Nanorods with Self-Assembling Peptide Amphiphiles Promotes Stability and Facilitates in vivo Two-Photon Imaging. <i>Journal of Materials Chemistry B</i> , 2022, . .	2.9	2
59	Analysis of the H-Ras mobility pattern <i>in vivo</i> shows cellular heterogeneity inside epidermal tissue. <i>DMM Disease Models and Mechanisms</i> , 2022, 15, .	1.2	2
60	A Multifocal Two-Photon Microscopy Setup for Parallel 3D Tracking of Gold Nanorods. <i>Biophysical Journal</i> , 2010, 98, 178a.	0.2	1
61	Structure and Dynamics of the Telomeric Nucleosome and Chromatin. <i>Biophysical Journal</i> , 2019, 116, 71a.	0.2	1
62	Overcoming chromatin barriers. <i>ELife</i> , 2019, 8, .	2.8	1
63	Nucleosome Stacking Defines The Structural And Mechanical Properties Of Chromatin Fibers. <i>Biophysical Journal</i> , 2009, 96, 35a.	0.2	0
64	Effect of Histone Acetylation on Nucleosome Dynamics Revealed by spFRET Microscopy. <i>Biophysical Journal</i> , 2009, 96, 55a.	0.2	0
65	Unraveling Chromatin Structure Using Magnetic Tweezers. <i>Biophysical Journal</i> , 2010, 98, 207a.	0.2	0
66	Introduction "DNA and chromosomes: Physical and biological approaches" <i>Biochimie</i> , 2010, 92, v-vi.	1.3	0
67	Quantification of Nucleosome Stacking in Single 30 nm Chromatin Fibers. <i>Biophysical Journal</i> , 2010, 98, 474a-475a.	0.2	0
68	Single Molecule Force Spectroscopy Reveals a Left Handed Helical Folding for the 30 nm Chromatin Fiber. <i>Biophysical Journal</i> , 2012, 102, 481a-482a.	0.2	0
69	Nucleosome Conformation and the Higher Order Structure of Chromatin: spFRET Experiments on (Di)Nucleosomes. <i>Biophysical Journal</i> , 2013, 104, 39a.	0.2	0
70	Thermodynamics and Kinetics of Stretched, Plectonemic and Melted DNA. <i>Biophysical Journal</i> , 2013, 104, 28a-29a.	0.2	0
71	Unraveling the Higher Order Structure of Chromatin using Single Molecule Force Spectroscopy. <i>Biophysical Journal</i> , 2013, 104, 13a.	0.2	0
72	Parallel Single-Molecule Excitation Spectroscopy of Gold Nanorods. <i>Biophysical Journal</i> , 2014, 106, 196a.	0.2	0

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73	Interactions and Stacking in Ordered Mononucleosomes and Folded Chromatin: Effects of Histone Tail Modifications. <i>Biophysical Journal</i> , 2014, 106, 74a.	0.2	0
74	Quantitative Analysis of Single-Molecule Force Spectroscopy Data on Chromatin Fibers. <i>Biophysical Journal</i> , 2014, 106, 451a.	0.2	0
75	Unravelling the Role of Linker Histone H1 and the H4-Tail in Chromatin (Un-)Folding. <i>Biophysical Journal</i> , 2016, 110, 68a.	0.2	0
76	A Novel Method for Multiplexed Nanometric Bead Tracking. <i>Biophysical Journal</i> , 2016, 110, 516a-517a.	0.2	0
77	Tracking Gold Nanorods in Live Cells. <i>Biophysical Journal</i> , 2016, 110, 485a.	0.2	0
78	Linker DNA Length Defines the Structure of Chromatin Fibers. <i>Biophysical Journal</i> , 2018, 114, 256a.	0.2	0
79	Structure and Function of Archaeal Histones. <i>Biophysical Journal</i> , 2018, 114, 446a.	0.2	0
80	Two Photon Excitation Spectroscopy of Gold Nanorods for Bio-Sensing. <i>Biophysical Journal</i> , 2018, 114, 169a.	0.2	0
81	(A)Specific DNA Binding of Archaeal Histones, the Formation and Positioning of Hypernucleosomes. <i>Biophysical Journal</i> , 2021, 120, 317a.	0.2	0
82	Engineering Mononucleosomes for Single-Pair FRET Experiments. <i>Methods in Molecular Biology</i> , 2011, 749, 291-303.	0.4	0
83	Multiplexed two-photon excitation spectroscopy of single gold nanorods. <i>Journal of Chemical Physics</i> , 2022, 156, 094201.	1.2	0