

Bart W Hoogenboom

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,674
citations

147566

31
h-index

205818

48
g-index

87
all docs

87
docs citations

87
times ranked

3344
citing authors

#	ARTICLE	IF	CITATIONS
1	The Supramolecular Assemblies of Voltage-dependent Anion Channels in the Native Membrane. <i>Journal of Molecular Biology</i> , 2007, 370, 246-255.	2.0	157
2	Stepwise visualization of membrane pore formation by suliyisin, a bacterial cholesterol-dependent cytolysin. <i>ELife</i> , 2014, 3, e04247.	2.8	145
3	Nanoscale imaging reveals laterally expanding antimicrobial pores in lipid bilayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8918-8923.	3.3	112
4	Charge transfer and doping-dependent hybridization of C60 on noble metals. <i>Physical Review B</i> , 1998, 57, 11939-11942.	1.1	104
5	Single-Molecule Reconstruction of Oligonucleotide Secondary Structure by Atomic Force Microscopy. <i>Small</i> , 2014, 10, 3257-3261.	5.2	96
6	Quantitative dynamic-mode scanning force microscopy in liquid. <i>Applied Physics Letters</i> , 2006, 88, 193109.	1.5	88
7	Real-time visualization of perforin nanopore assembly. <i>Nature Nanotechnology</i> , 2017, 12, 467-473.	15.6	88
8	Imaging Surface Charges of Individual Biomolecules. <i>Nano Letters</i> , 2009, 9, 2769-2773.	4.5	85
9	A Programmable DNA Origami Platform for Organizing Intrinsically Disordered Nucleoporins within Nanopore Confinement. <i>ACS Nano</i> , 2018, 12, 1508-1518.	7.3	84
10	Atomic Force Microscopy with Nanoscale Cantilevers Resolves Different Structural Conformations of the DNA Double Helix. <i>Nano Letters</i> , 2012, 12, 3846-3850.	4.5	83
11	Bacterial killing by complement requires membrane attack complex formation via surface-bound C5 convertases. <i>EMBO Journal</i> , 2019, 38, .	3.5	76
12	Single-molecule kinetics of pore assembly by the membrane attack complex. <i>Nature Communications</i> , 2019, 10, 2066.	5.8	74
13	Base-pair resolution analysis of the effect of supercoiling on DNA flexibility and major groove recognition by triplex-forming oligonucleotides. <i>Nature Communications</i> , 2021, 12, 1053.	5.8	73
14	A physical model describing the interaction of nuclear transport receptors with FG nucleoporin domain assemblies. <i>ELife</i> , 2016, 5, .	2.8	69
15	The cryo-EM structure of the acid activatable pore-forming immune effector Macrophage-expressed gene 1. <i>Nature Communications</i> , 2019, 10, 4288.	5.8	65
16	Antimicrobial peptide capsids of de novo design. <i>Nature Communications</i> , 2017, 8, 2263.	5.8	63
17	Nanoscale stiffness topography reveals structure and mechanics of the transport barrier in intact nuclear pore complexes. <i>Nature Nanotechnology</i> , 2015, 10, 60-64.	15.6	57
18	Lipid order and charge protect killer T cells from accidental death. <i>Nature Communications</i> , 2019, 10, 5396.	5.8	56

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19	Acoustic Immunosensing of Exosomes Using a Quartz Crystal Microbalance with Dissipation Monitoring. <i>Analytical Chemistry</i> , 2020, 92, 4082-4093.	3.2	55
20	Hexagonal and Square Flux Line Lattices in CeCoIn ₅ . <i>Physical Review Letters</i> , 2003, 90, 187001.	2.9	53
21	Phase separation in the outer membrane of <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	53
22	The membrane attack complex, perforin and cholesterol-dependent cytolysin superfamily of pore-forming proteins. <i>Journal of Cell Science</i> , 2016, 129, 2125-33.	1.2	45
23	Physics of the nuclear pore complex: Theory, modeling and experiment. <i>Physics Reports</i> , 2021, 921, 1-53.	10.3	44
24	Structurally plastic peptide capsules for synthetic antimicrobial viruses. <i>Chemical Science</i> , 2016, 7, 1707-1711.	3.7	43
25	Linear and Field-Independent Relation between Vortex Core State Energy and Gap in Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . <i>Physical Review Letters</i> , 2001, 87, 267001.	2.9	42
26	Engineering Chirally Blind Protein Pseudocapsids into Antibacterial Persisters. <i>ACS Nano</i> , 2020, 14, 1609-1622.	7.3	42
27	Imaging the Essential Role of Spin Fluctuations in High- T_c Superconductivity. <i>Physical Review Letters</i> , 2009, 103, 227001.	2.9	40
28	Field Dependent Coherence Length in the Superclean, High- T_c Superconductor CeCoIn ₅ . <i>Physical Review Letters</i> , 2006, 97, 127001.	2.9	37
29	Biomechanics of the transport barrier in the nuclear pore complex. <i>Seminars in Cell and Developmental Biology</i> , 2017, 68, 42-51.	2.3	37
30	Improved Kelvin probe force microscopy for imaging individual DNA molecules on insulating surfaces. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	36
31	Atomic force microscopy to elucidate how peptides disrupt membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183447.	1.4	36
32	Bistable collective behavior of polymers tethered in a nanopore. <i>Physical Review E</i> , 2012, 85, 061917.	0.8	35
33	Engineering monolayer poration for rapid exfoliation of microbial membranes. <i>Chemical Science</i> , 2017, 8, 1105-1115.	3.7	35
34	Model Inspired by Nuclear Pore Complex Suggests Possible Roles for Nuclear Transport Receptors in Determining Its Structure. <i>Biophysical Journal</i> , 2013, 105, 2781-2789.	0.2	29
35	Physical modelling of the nuclear pore complex. <i>Soft Matter</i> , 2013, 9, 10442.	1.2	28
36	Bacterial killing by complement requires direct anchoring of membrane attack complex precursor C5b-7. <i>PLoS Pathogens</i> , 2020, 16, e1008606.	2.1	28

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37	Atomic force microscopy reveals structural variability amongst nuclear pore complexes. Life Science Alliance, 2018, 1, e201800142.	1.3	28
38	Tuneable poration: host defense peptides as sequence probes for antimicrobial mechanisms. Scientific Reports, 2018, 8, 14926.	1.6	24
39	Single-molecule measurements reveal that PARP1 condenses DNA by loop stabilization. Science Advances, 2021, 7, .	4.7	23
40	TopoStats â€” A program for automated tracing of biomolecules from AFM images. Methods, 2021, 193, 68-79.	1.9	23
41	Imaging live bacteria at the nanoscale: comparison of immobilisation strategies. Analyst, The, 2019, 144, 6944-6952.	1.7	21
42	Intrinsically disordered nuclear pore proteins show ideal-polymer morphologies and dynamics. Physical Review E, 2020, 101, 022420.	0.8	18
43	Atomic force microscopy of membrane pore formation by cholesterol dependent cytolysins. Current Opinion in Structural Biology, 2016, 39, 8-15.	2.6	17
44	Switching Cytolytic Nanopores into Antimicrobial Fractal Ruptures by a Single Side Chain Mutation. ACS Nano, 2021, 15, 9679-9689.	7.3	17
45	Flowering Porationâ€”A Synergistic Multi-Mode Antibacterial Mechanism by a Bacteriocin Fold. IScience, 2020, 23, 101423.	1.9	16
46	Studies of G-quadruplexes formed within self-assembled DNA mini-circles. Chemical Communications, 2016, 52, 12454-12457.	2.2	15
47	PEGylated surfaces for the study of DNAâ€”protein interactions by atomic force microscopy. Nanoscale, 2019, 11, 20072-20080.	2.8	15
48	Imaging DNA Structure by Atomic Force Microscopy. Methods in Molecular Biology, 2016, 1431, 47-60.	0.4	14
49	Quantification of Biomolecular Dynamics Inside Real and Synthetic Nuclear Pore Complexes Using Time-Resolved Atomic Force Microscopy. ACS Nano, 2019, 13, 7949-7956.	7.3	14
50	Physical modeling of multivalent interactions in the nuclear pore complex. Biophysical Journal, 2021, 120, 1565-1577.	0.2	14
51	Cooperative amyloid fibre binding and disassembly by the Hsp70 disaggregase. EMBO Journal, 2022, 41, .	3.5	14
52	Using Micromechanical Resonators to Measure Rheological Properties and Alcohol Content of Model Solutions and Commercial Beverages. Sensors, 2012, 12, 6497-6507.	2.1	13
53	Structural basis for tuning activity and membrane specificity of bacterial cytolysins. Nature Communications, 2020, 11, 5818.	5.8	13
54	Enhanced quality factors and force sensitivity by attaching magnetic beads to cantilevers for atomic force microscopy in liquid. Journal of Applied Physics, 2012, 112, .	1.1	12

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55	Helminth Defense Molecules as Design Templates for Membrane Active Antibiotics. ACS Infectious Diseases, 2019, 5, 1471-1479.	1.8	11
56	Resolving the structure of a model hydrophobic surface: DODAB monolayers on mica. RSC Advances, 2012, 2, 4181.	1.7	10
57	Crowding-induced phase separation of nuclear transport receptors in FG nucleoporin assemblies. ELife, 2022, 11, .	2.8	10
58	Stretching the resolution limit of atomic force microscopy. Nature Structural and Molecular Biology, 2021, 28, 629-630.	3.6	8
59	Lipid specificity of the immune effector perforin. Faraday Discussions, 2021, 232, 236-255.	1.6	7
60	AFM imaging of pore forming proteins. Methods in Enzymology, 2021, 649, 149-188.	0.4	3
61	Imaging the Effects of Peptide Materials on Phospholipid Membranes by Atomic Force Microscopy. Methods in Molecular Biology, 2021, 2208, 225-235.	0.4	3
62	Reversible Dissolution of Microdomains in Detergent-Resistant Membranes at Physiological Temperature. PLoS ONE, 2015, 10, e0132696.	1.1	2
63	The case for biophysics super-groups in physics departments. Physical Biology, 2018, 15, 060201.	0.8	2
64	Atomic force microscopy on plasma membranes from <i>Xenopus laevis</i> oocytes containing human aquaporin 4. Journal of Molecular Recognition, 2014, 27, 669-675.	1.1	1
65	AFM in Liquids. , 2015, , 1-9.		0
66	Membrane disrupting peptides: mechanistic elucidation of antimicrobial activity. Amino Acids, Peptides and Proteins, 2020, , 115-139.	0.7	0
67	Title is missing!. , 2020, 16, e1008606.		0
68	Title is missing!. , 2020, 16, e1008606.		0
69	Title is missing!. , 2020, 16, e1008606.		0
70	In-situ nanoscale imaging reveals self-concentrating nanomolar antimicrobial pores. Nanoscale, 2022, , .	2.8	0