

Iwan A T Schaap

List of Publications by Year in descending order

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43
papers

3,845
citations

218677

26
h-index

265206

42
g-index

43
all docs

43
docs citations

43
times ranked

5571
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromechanical Photophysics of GFP Packed Inside Viral Protein Cages Probed by Force-Fluorescence Hybrid Single-Molecule Microscopy. <i>Small</i> , 2022, 18, .	10.0	7
2	Rotational speed measurements of small spherical particles driven by acoustic viscous torques utilizing an optical trap. <i>Journal of Micromechanics and Microengineering</i> , 2021, 31, 034004.	2.6	3
3	Atomic Force Microscopy of Viruses. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1215, 159-179.	1.6	18
4	The AP2 adaptor enhances clathrin coat stiffness. <i>FEBS Journal</i> , 2019, 286, 4074-4085.	4.7	16
5	The 2018 correlative microscopy techniques roadmap. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 443001.	2.8	99
6	Atomic force microscopy of virus shells. <i>Biochemical Society Transactions</i> , 2017, 45, 499-511.	3.4	25
7	Atomic Force Microscopy micro-rheology reveals large structural inhomogeneities in single cell-nuclei. <i>Scientific Reports</i> , 2017, 7, 8116.	3.3	44
8	Imaging the position-dependent 3D force on microbeads subjected to acoustic radiation forces and streaming. <i>Lab on A Chip</i> , 2016, 16, 2682-2693.	6.0	24
9	Calcium Promotes the Formation of Syntaxin 1 Mesoscale Domains through Phosphatidylinositol 4,5-Bisphosphate. <i>Journal of Biological Chemistry</i> , 2016, 291, 7868-7876.	3.4	29
10	Super-Resolution Optical Fluctuation Bio-Imaging with Dual-Color Carbon Nanodots. <i>Nano Letters</i> , 2016, 16, 237-242.	9.1	122
11	Swelling and Softening of the Cowpea Chlorotic Mottle Virus in Response to pH Shifts. <i>Biophysical Journal</i> , 2015, 108, 2541-2549.	0.5	40
12	Label-Free Measurement of Amyloid Elongation by Suspended Microchannel Resonators. <i>Analytical Chemistry</i> , 2015, 87, 1821-1828.	6.5	12
13	Effect of Clathrin Light Chains on the Stiffness of Clathrin Lattices and Membrane Budding. <i>Traffic</i> , 2015, 16, 519-533.	2.7	39
14	Drebrin-like protein DBN-1 is a sarcomere component that stabilizes actin filaments during muscle contraction. <i>Nature Communications</i> , 2015, 6, 7523.	12.8	16
15	Actin Filament Turnover Drives Leading Edge Growth during Myelin Sheath Formation in the Central Nervous System. <i>Developmental Cell</i> , 2015, 34, 139-151.	7.0	183
16	Fluorescence Tracking of Genome Release during Mechanical Unpacking of Single Viruses. <i>ACS Nano</i> , 2015, 9, 10571-10579.	14.6	67
17	Durable protein lattices of clathrin that can be functionalized with nanoparticles and active biomolecules. <i>Nature Nanotechnology</i> , 2015, 10, 954-957.	31.5	11
18	Direct 2D measurement of time-averaged forces and pressure amplitudes in acoustophoretic devices using optical trapping. <i>Lab on A Chip</i> , 2015, 15, 290-300.	6.0	18

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19	pH-Controlled Two-Step Uncoating of Influenza Virus. <i>Biophysical Journal</i> , 2014, 106, 1447-1456.	0.5	106
20	Photoluminescence of Carbon Nanodots: Dipole Emission Centers and Electron-Phonon Coupling. <i>Nano Letters</i> , 2014, 14, 5656-5661.	9.1	187
21	A high-speed vertical optical trap for the mechanical testing of living cells at piconewton forces. <i>Review of Scientific Instruments</i> , 2013, 84, 113707.	1.3	10
22	Myelin Membrane Assembly Is Driven by a Phase Transition of Myelin Basic Proteins Into a Cohesive Protein Meshwork. <i>PLoS Biology</i> , 2013, 11, e1001577.	5.6	148
23	Propranolol Restricts the Mobility of Single EGF-Receptors on the Cell Surface before Their Internalization. <i>PLoS ONE</i> , 2013, 8, e83086.	2.5	3
24	Effect of Envelope Proteins on the Mechanical Properties of Influenza Virus. <i>Journal of Biological Chemistry</i> , 2012, 287, 41078-41088.	3.4	63
25	Critical Time Window of Neuronal Cholesterol Synthesis during Neurite Outgrowth. <i>Journal of Neuroscience</i> , 2012, 32, 7632-7645.	3.6	65
26	Cell Visco-Elasticity Measured with AFM and Optical Trapping at Sub-Micrometer Deformations. <i>PLoS ONE</i> , 2012, 7, e45297.	2.5	178
27	Direct Measurement of Phage phi29 Stiffness Provides Evidence of Internal Pressure. <i>Small</i> , 2012, 8, 2366-2370.	10.0	71
28	Bending and Puncturing the Influenza Lipid Envelope. <i>Biophysical Journal</i> , 2011, 100, 637-645.	0.5	101
29	Built-In Mechanical Stress in Viral Shells. <i>Biophysical Journal</i> , 2011, 100, 1100-1108.	0.5	75
30	Kinesin Walks the Line: Single Motors Observed by Atomic Force Microscopy. <i>Biophysical Journal</i> , 2011, 100, 2450-2456.	0.5	36
31	Structural and Dynamic Characterization of Biochemical Processes by Atomic Force Microscopy. <i>Methods in Molecular Biology</i> , 2011, 778, 71-95.	0.9	8
32	Malaria Parasite Actin Polymerization and Filament Structure. <i>Journal of Biological Chemistry</i> , 2010, 285, 36577-36585.	3.4	54
33	Swelling and Softening of the CCMV Plant Virus Capsid in Response to pH Shifts. <i>Biophysical Journal</i> , 2010, 98, 656a.	0.5	4
34	Manipulating and imaging molecular motors with optical traps, single-molecule fluorescence and atomic force microscopy. , 2008, , 217-218.		0
35	Tau protein binding forms a 1nm thick layer along protofilaments without affecting the radial elasticity of microtubules. <i>Journal of Structural Biology</i> , 2007, 158, 282-292.	2.8	50
36	Elastic Response, Buckling, and Instability of Microtubules under Radial Indentation. <i>Biophysical Journal</i> , 2006, 91, 1521-1531.	0.5	163

#	ARTICLE	IF	CITATIONS
37	Structural and Mechanical Study of a Self-Assembling Protein Nanotube. Nano Letters, 2006, 6, 616-621.	9.1	115
38	DNA-mediated anisotropic mechanical reinforcement of a virus. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13706-13711.	7.1	186
39	Rapid Chiral Assembly of Rigid DNA Building Blocks for Molecular Nanofabrication. Science, 2005, 310, 1661-1665.	12.6	1,013
40	Resolving the molecular structure of microtubules under physiological conditions with scanning force microscopy. European Biophysics Journal, 2004, 33, 462-467.	2.2	47
41	Observation of microtubules with scanning force microscopy in liquid. Nanotechnology, 2003, 14, 143-146.	2.6	13
42	Persistence and transmission of natural type I feline coronavirus infection. Journal of General Virology, 2003, 84, 2735-2744.	2.9	156
43	Deformation and Collapse of Microtubules on the Nanometer Scale. Physical Review Letters, 2003, 91, 098101.	7.8	220