

Jan T Liphardt

List of Publications by Citations

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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.

51
papers

8,424
citations

32
h-index

56
g-index

56
ext. papers

9,455
ext. citations

14.1
avg, IF

5.74
L-index

#	Paper	IF	Citations
51	A molecular ruler based on plasmon coupling of single gold and silver nanoparticles. <i>Nature Biotechnology</i> , 2005 , 23, 741-5	44.5	1300
50	Equilibrium information from nonequilibrium measurements in an experimental test of Jarzynski's equality. <i>Science</i> , 2002 , 296, 1832-5	33.3	901
49	Single-molecule studies of DNA mechanics. <i>Current Opinion in Structural Biology</i> , 2000 , 10, 279-85	8.1	665
48	ZnO-Al ₂ O ₃ and ZnO-TiO ₂ core-shell nanowire dye-sensitized solar cells. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 22652-63	3.4	644
47	The Nonequilibrium Thermodynamics of Small Systems. <i>Physics Today</i> , 2005 , 58, 43-48	0.9	550
46	Calibration of dynamic molecular rulers based on plasmon coupling between gold nanoparticles. <i>Nano Letters</i> , 2005 , 5, 2246-52	11.5	498
45	Tunable nanowire nonlinear optical probe. <i>Nature</i> , 2007 , 447, 1098-101	50.4	448
44	Optical trapping and integration of semiconductor nanowire assemblies in water. <i>Nature Materials</i> , 2006 , 5, 97-101	27	323
43	Self-organization of the Escherichia coli chemotaxis network imaged with super-resolution light microscopy. <i>PLoS Biology</i> , 2009 , 7, e1000137	9.7	264
42	Molecular architecture and assembly principles of Vibrio cholerae biofilms. <i>Science</i> , 2012 , 337, 236-9	33.3	257
41	Use of plasmon coupling to reveal the dynamics of DNA bending and cleavage by single EcoRV restriction enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 2667-72	11.5	246
40	Identifying kinetic barriers to mechanical unfolding of the T. thermophila ribozyme. <i>Science</i> , 2003 , 299, 1892-5	33.3	210
39	Experimental test of Hatano and Sasa's nonequilibrium steady-state equality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 15038-41	11.5	192
38	Light-powering Escherichia coli with proteorhodopsin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 2408-12	11.5	145
37	What does physics have to do with cancer?. <i>Nature Reviews Cancer</i> , 2011 , 11, 657-70	31.3	143
36	Selectivity mechanism of the nuclear pore complex characterized by single cargo tracking. <i>Nature</i> , 2010 , 467, 600-3	50.4	131
35	ATAC-seq reveals the accessible genome by transposase-mediated imaging and sequencing. <i>Nature Methods</i> , 2016 , 13, 1013-1020	21.6	122

34	Single-molecule superresolution imaging allows quantitative analysis of RAF multimer formation and signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18519-24	11.5	119
33	Controlling DNA capture and propagation through artificial nanopores. <i>Nano Letters</i> , 2007 , 7, 2824-30	11.5	108
32	Biocompatible force sensor with optical readout and dimensions of 6 nm ³ . <i>Nano Letters</i> , 2005 , 5, 1509-14	11.5	101
31	Rapid disorganization of mechanically interacting systems of mammary acini. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 658-63	11.5	98
30	mMaple: a photoconvertible fluorescent protein for use in multiple imaging modalities. <i>PLoS ONE</i> , 2012 , 7, e51314	3.7	98
29	Scanning angle interference microscopy reveals cell dynamics at the nanoscale. <i>Nature Methods</i> , 2012 , 9, 825-7	21.6	78
28	Single-molecule in vivo imaging of bacterial respiratory complexes indicates delocalized oxidative phosphorylation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014 , 1837, 811-24	4.6	73
27	The role of RNA pseudoknot stem 1 length in the promotion of efficient -1 ribosomal frameshifting. <i>Journal of Molecular Biology</i> , 1999 , 288, 305-20	6.5	69
26	Importin- β modulates the permeability of the nuclear pore complex in a Ran-dependent manner. <i>ELife</i> , 2015 , 4,	8.9	69
25	Mechanisms of Plastic Deformation in Collagen Networks Induced by Cellular Forces. <i>Biophysical Journal</i> , 2018 , 114, 450-461	2.9	65
24	Evidence for an RNA pseudoknot loop-helix interaction essential for efficient -1 ribosomal frameshifting. <i>Journal of Molecular Biology</i> , 1999 , 288, 321-35	6.5	61
23	A single-molecule analysis reveals morphological targets for cellulase synergy. <i>Nature Chemical Biology</i> , 2013 , 9, 356-61	11.7	58
22	Scaffold nucleoporins Nup188 and Nup192 share structural and functional properties with nuclear transport receptors. <i>ELife</i> , 2013 , 2, e00745	8.9	54
21	Strong triaxial coupling and anomalous Poisson effect in collagen networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6790-6799	11.5	41
20	Potential of light-harvesting proton pumps for bioenergy applications. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 265-70	11.4	33
19	A Mutation in Histone H2B Represents a New Class of Oncogenic Driver. <i>Cancer Discovery</i> , 2019 , 9, 1438-1451	14.1	30
18	NuSeT: A deep learning tool for reliably separating and analyzing crowded cells. <i>PLoS Computational Biology</i> , 2020 , 16, e1008193	5	29
17	Fabrication of 10 nm diameter hydrocarbon nanopores. <i>Applied Physics Letters</i> , 2008 , 93, 183101	3.4	23

16	Origins of chemoreceptor curvature sorting in Escherichia coli. <i>Nature Communications</i> , 2017 , 8, 14838	17.4	22
15	Optical measurement of mechanical forces inside short DNA loops. <i>Biophysical Journal</i> , 2008 , 94, 2179-86.9		22
14	A fluorogenic array for temporally unlimited single-molecule tracking. <i>Nature Chemical Biology</i> , 2019 , 15, 401-409	11.7	21
13	Stiff stroma increases breast cancer risk by inducing the oncogene ZNF217. <i>Journal of Clinical Investigation</i> , 2020 , 130, 5721-5737	15.9	19
12	Satb1 integrates DNA binding site geometry and torsional stress to differentially target nucleosome-dense regions. <i>Nature Communications</i> , 2019 , 10, 3221	17.4	18
11	Q&A: Single-molecule localization microscopy for biological imaging. <i>BMC Biology</i> , 2010 , 8, 106	7.3	18
10	Plasmon rulers as dynamic molecular rulers in enzymology. <i>Methods in Enzymology</i> , 2010 , 475, 175-98	1.7	9
9	Physical confinement induces malignant transformation in mammary epithelial cells. <i>Biomaterials</i> , 2019 , 217, 119307	15.6	8
8	Concerted localization-resets precede YAP-dependent transcription. <i>Nature Communications</i> , 2020 , 11, 4581	17.4	8
7	Achieving Trustworthy Biomedical Data Solutions 2020 ,		5
6	Concerted localization-resets precede YAP-dependent transcription		5
5	Optical control of fast and processive engineered myosins in vitro and in living cells. <i>Nature Chemical Biology</i> , 2021 , 17, 540-548	11.7	5
4	A fluorogenic nanobody array tag for prolonged single molecule imaging in live cells		3
3	The great hunt for extra compliance. <i>Biophysical Journal</i> , 2007 , 93, 4099	2.9	2
2	A Fluorogenic Array Tag for Temporally Unlimited Single Molecule Tracking		1
1	Unfolding Single RNA Molecules with Optical Tweezers. <i>Microscopy and Microanalysis</i> , 2001 , 7, 26-27	0.5	