

J-F Allemand

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

5,760
citations

126907

33
h-index

123424

61
g-index

75
all docs

75
docs citations

75
times ranked

4425
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel approaches to study helicases using magnetic tweezers. <i>Methods in Enzymology</i> , 2022, , 359-403.	1.0	5
2	Parallel, linear, and subnanometric 3D tracking of microparticles with Stereo Darkfield Interferometry. <i>Science Advances</i> , 2021, 7, .	10.3	14
3	Folding and persistence times of intramolecular G-quadruplexes transiently embedded in a DNA duplex. <i>Nucleic Acids Research</i> , 2021, 49, 5189-5201.	14.5	16
4	Single-molecule kinetic locking allows fluorescence-free quantification of protein/nucleic-acid binding. <i>Communications Biology</i> , 2021, 4, 1083.	4.4	7
5	Detection of genetic variation and base modifications at base-pair resolution on both DNA and RNA. <i>Communications Biology</i> , 2021, 4, 128.	4.4	1
6	Visualizing the dynamics of exported bacterial proteins with the chemogenetic fluorescent reporter FAST. <i>Scientific Reports</i> , 2020, 10, 15791.	3.3	15
7	Parallelized DNA tethered bead measurements to scrutinize DNA mechanical structure. <i>Methods</i> , 2019, 169, 46-56.	3.8	2
8	PICH and TOP3A cooperate to induce positive DNA supercoiling. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 267-274.	8.2	29
9	A mechanistic study of helicases with magnetic traps. <i>Protein Science</i> , 2017, 26, 1314-1336.	7.6	12
10	Single molecule studies of helicases with magnetic tweezers. <i>Methods</i> , 2016, 105, 3-15.	3.8	23
11	Are the SSB-Interacting Proteins RecO, RecG, PriA and the DnaB-Interacting Protein Rep Bound to Progressing Replication Forks in <i>Escherichia coli</i> ?. <i>PLoS ONE</i> , 2015, 10, e0134892.	2.5	15
12	Molecular motors. , 2014, , 71-90.		0
13	Polymerase Exchange During Okazaki Fragment Synthesis Observed in Living Cells. <i>Science</i> , 2012, 335, 328-331.	12.6	51
14	Mechanism of strand displacement synthesis by DNA replicative polymerases. <i>Nucleic Acids Research</i> , 2012, 40, 6174-6186.	14.5	68
15	Energy Propagation Through a Protometabolism Leading to the Local Emergence of Singular Stationary Concentration Profiles. <i>Chemistry - A European Journal</i> , 2012, 18, 14375-14383.	3.3	17
16	Molecular motors for DNA translocation in prokaryotes. <i>Current Opinion in Biotechnology</i> , 2012, 23, 503-509.	6.6	22
17	Single-Molecule Studies Using Magnetic Traps. <i>Cold Spring Harbor Protocols</i> , 2012, 2012, pdb.top067488.	0.3	39
18	Single-molecule mechanical identification and sequencing. <i>Nature Methods</i> , 2012, 9, 367-372.	19.0	51

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19	Magnetic Trap Construction: Figure 1.. Cold Spring Harbor Protocols, 2012, 2012, pdb.prot067496.	0.3	26
20	Soft magnetic tweezers: A proof of principle. Review of Scientific Instruments, 2011, 82, 034302.	1.3	51
21	Separating speed and ability to displace roadblocks during DNA translocation by FtsK. EMBO Journal, 2010, 29, 1423-1433.	7.8	34
22	Magnetic Tweezers for the Study of DNA Tracking Motors. Methods in Enzymology, 2010, 475, 297-320.	1.0	34
23	Measurement of the Torque on a Single Stretched and Twisted DNA Using Magnetic Tweezers. Physical Review Letters, 2009, 102, 078301.	7.8	171
24	Asymmetric DNA requirements in Xer recombination activation by FtsK. Nucleic Acids Research, 2009, 37, 2371-2380.	14.5	24
25	Single DNA/protein studies with magnetic traps. Current Opinion in Structural Biology, 2009, 19, 615-622.	5.7	27
26	Bacterial translocation motors investigated by single molecule techniques. FEMS Microbiology Reviews, 2009, 33, 593-610.	8.6	34
27	Single-molecule Visualization of Binding Modes of Helicase to DNA on PEGylated Surfaces. Chemistry Letters, 2009, 38, 308-309.	1.3	20
28	Nanoforce and Imaging. , 2009, , 375-475.		0
29	A Caged Retinoic Acid for One- and Two-Photon Excitation in Zebrafish Embryos. Angewandte Chemie - International Edition, 2008, 47, 3744-3746.	13.8	83
30	Some nonlinear challenges in biology. Nonlinearity, 2008, 21, T131-T147.	1.4	26
31	The manipulation of single biomolecules. Interdisciplinary Science Reviews, 2007, 32, 149-161.	1.4	2
32	Single-Molecule Micromanipulation Techniques. Annual Review of Materials Research, 2007, 37, 33-67.	9.3	153
33	Fourier Analysis To Measure Diffusion Coefficients and Resolve Mixtures on a Continuous Electrophoresis Chip. Analytical Chemistry, 2007, 79, 8222-8231.	6.5	16
34	Studies of DNA-Protein Interactions at the Single Molecule Level with Magnetic Tweezers. , 2007, , 123-140.		2
35	Structural plasticity of single chromatin fibers revealed by torsional manipulation. Nature Structural and Molecular Biology, 2006, 13, 444-450.	8.2	156
36	Oriented loading of FtsK on KOPS. Nature Structural and Molecular Biology, 2006, 13, 1026-1028.	8.2	88

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37	Loops in DNA: An overview of experimental and theoretical approaches. <i>European Physical Journal E</i> , 2006, 19, 293-302.	1.6	58
38	Photophysics of a Series of Efficient Fluorescent pH Probes for Dual-Emission-Wavelength Measurements in Aqueous Solutions. <i>Chemistry - A European Journal</i> , 2006, 12, 1097-1113.	3.3	51
39	DNA mechanics as a tool to probe helicase and translocase activity. <i>Nucleic Acids Research</i> , 2006, 34, 4232-4244.	14.5	56
40	Analysis of DNA supercoil induction by FtsK indicates translocation without groove-tracking. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 436-440.	8.2	62
41	KOPS: DNA motifs that control <i>E. coli</i> chromosome segregation by orienting the FtsK translocase. <i>EMBO Journal</i> , 2005, 24, 3770-3780.	7.8	169
42	Single-Molecule Manipulation Measurements of DNA Transport Proteins. <i>ChemPhysChem</i> , 2005, 6, 813-818.	2.1	15
43	Reactant Concentrations from Fluorescence Correlation Spectroscopy with Tailored Fluorescent Probes. An Example of Local Calibration-Free pH Measurement. <i>Journal of the American Chemical Society</i> , 2005, 127, 15491-15505.	13.7	22
44	Stochastic Resonance to Control Diffusive Motion in Chemistry. <i>Journal of Physical Chemistry B</i> , 2005, 109, 1318-1328.	2.6	12
45	Statistical determination of the step size of molecular motors. <i>Journal of Physics Condensed Matter</i> , 2005, 17, S3811-S3820.	1.8	28
46	Fast, DNA-sequence independent translocation by FtsK in a single-molecule experiment. <i>EMBO Journal</i> , 2004, 23, 2430-2439.	7.8	135
47	Controlled assembly of covalent and supramolecular chemical modules: from engineering of complex structures to high-performance chromatography. <i>Russian Chemical Bulletin</i> , 2004, 53, 1379-1384.	1.5	0
48	An Efficient Fluorescent Probe for Ratiometric pH Measurements in Aqueous Solutions. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4785-4788.	13.8	137
49	Diaroyl(methanato)boron Difluoride Compounds as Medium-Sensitive Two-Photon Fluorescent Probes. <i>Chemistry - A European Journal</i> , 2004, 10, 1445-1455.	3.3	191
50	Twisting and Untwisting a Single DNA Molecule Covered by RecA Protein. <i>Biophysical Journal</i> , 2004, 87, 2552-2563.	0.5	40
51	Twisting DNA: single molecule studies. <i>Contemporary Physics</i> , 2004, 45, 383-403.	1.8	66
52	Stretching DNA and RNA to probe their interactions with proteins. <i>Current Opinion in Structural Biology</i> , 2003, 13, 266-274.	5.7	92
53	Supercoiling and denaturation in Gal repressor/heat unstable nucleoid protein (HU)-mediated DNA looping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 11373-11377.	7.1	105
54	Single-Molecule DNA Nanomanipulation: Detection of Promoter-Unwinding Events by RNA Polymerase. <i>Methods in Enzymology</i> , 2003, 370, 577-598.	1.0	23

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55	Transverse fluctuations of single DNA molecules attached at both extremities to a surface. <i>Physical Review E</i> , 2003, 67, 051910.	2.1	23
56	Stretching of macromolecules and proteins. <i>Reports on Progress in Physics</i> , 2003, 66, 1-45.	20.1	230
57	Structure and mechanics of single biomolecules: experiment and simulation. <i>Journal of Physics Condensed Matter</i> , 2002, 14, R383-R414.	1.8	88
58	Tracking enzymatic steps of DNA topoisomerases using single-molecule micromanipulation. <i>Comptes Rendus Physique</i> , 2002, 3, 595-618.	0.9	14
59	The Manipulation of Single Biomolecules. <i>Physics Today</i> , 2001, 54, 46-51.	0.3	81
60	Twisting and stretching single DNA molecules. <i>Progress in Biophysics and Molecular Biology</i> , 2000, 74, 115-140.	2.9	317
61	Stress-Induced Structural Transitions in DNA and Proteins. <i>Annual Review of Biophysics and Biomolecular Structure</i> , 2000, 29, 523-543.	18.3	99
62	Phase coexistence in a single DNA molecule. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999, 263, 392-404.	2.6	56
63	Estimating the Persistence Length of a Worm-Like Chain Molecule from Force-Extension Measurements. <i>Biophysical Journal</i> , 1999, 76, 409-413.	0.5	616
64	Behavior of Supercoiled DNA. <i>Biophysical Journal</i> , 1998, 74, 2016-2028.	0.5	466
65	The Elasticity of a Single Supercoiled DNA Molecule. <i>Science</i> , 1996, 271, 1835-1837.	12.6	1,161