

Taekjip Ha

List of Publications by Year in descending order

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338
papers

33,376
citations

4345

89
h-index

5739

167
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391
all docs

391
docs citations

391
times ranked

31932
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering Functional Membraneâ€“Membrane Interfaces by InterSpy. <i>Small</i> , 2023, 19, .	5.2	3
2	Next generation single-molecule techniques: Imaging, labeling, and manipulation inÂvitro and in cellulo. <i>Molecular Cell</i> , 2022, 82, 304-314.	4.5	17
3	Characterization and <i>in vitro</i> testing of newly isolated lytic bacteriophages for theÂbiocontrol of <i>Pseudomonas aeruginosa</i> . <i>Future Microbiology</i> , 2022, 17, 111-141.	1.0	7
4	Catalytic DNA Polymerization Can Be Expedited by Active Product Release**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	5
5	Improving the specificity of nucleic acid detection with endonuclease-actuated degradation. <i>Communications Biology</i> , 2022, 5, 290.	2.0	3
6	Coordinated DNA and histone dynamics drive accurate histone H2A.Z exchange. <i>Science Advances</i> , 2022, 8, eabj5509.	4.7	11
7	Deep learning modeling m6A deposition reveals the importance of downstream cis-element sequences. <i>Nature Communications</i> , 2022, 13, 2720.	5.8	12
8	Orc6 is a component of the replication fork and enables efficient mismatch repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	7
9	Vectorial folding of telomere overhang promotes higher accessibility. <i>Nucleic Acids Research</i> , 2022, 50, 6271-6283.	6.5	4
10	Dynamin is primed at endocytic sites for ultrafast endocytosis. <i>Neuron</i> , 2022, 110, 2815-2835.e13.	3.8	38
11	Measuring DNA mechanics on the genome scale. <i>Nature</i> , 2021, 589, 462-467.	13.7	81
12	Mechanical expansion microscopy. <i>Methods in Cell Biology</i> , 2021, 161, 125-146.	0.5	6
13	<i>In vitro</i> Cleavage and Electrophoretic Mobility Shift Assays for Very Fast CRISPR. <i>Bio-protocol</i> , 2021, 11, e4138.	0.2	0
14	Effects of individual base-pairs on <i>in vivo</i> target search and destruction kinetics of bacterial small RNA. <i>Nature Communications</i> , 2021, 12, 874.	5.8	7
15	Dynamic interactions between the RNA chaperone Hfq, small regulatory RNAs, and mRNAs in live bacterial cells. <i>ELife</i> , 2021, 10, .	2.8	25
16	FRET-based dynamic structural biology: Challenges, perspectives and an appeal for open-science practices. <i>ELife</i> , 2021, 10, .	2.8	152
17	Mechanical stress determines the configuration of TGFÎ² activation in articular cartilage. <i>Nature Communications</i> , 2021, 12, 1706.	5.8	81
18	DNA mechanics and its biological impact. <i>Journal of Molecular Biology</i> , 2021, 433, 166861.	2.0	31

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19	Genome oligopaint via local denaturation fluorescence in situ hybridization. <i>Molecular Cell</i> , 2021, 81, 1566-1577.e8.	4.5	19
20	Cas9 deactivation with photocleavable guide RNAs. <i>Molecular Cell</i> , 2021, 81, 1553-1565.e8.	4.5	30
21	Regeneration of PEG slide for multiple rounds of single-molecule measurements. <i>Biophysical Journal</i> , 2021, 120, 1788-1799.	0.2	19
22	Hippocampal AMPA receptor assemblies and mechanism of allosteric inhibition. <i>Nature</i> , 2021, 594, 448-453.	13.7	52
23	Molecular Nanomechanical Mapping of Histamine-Induced Smooth Muscle Cell Contraction and Shortening. <i>ACS Nano</i> , 2021, 15, 11585-11596.	7.3	10
24	Redefining the specificity of phosphoinositide-binding by human PH domain-containing proteins. <i>Nature Communications</i> , 2021, 12, 4339.	5.8	27
25	K29-linked ubiquitin signaling regulates proteotoxic stress response and cell cycle. <i>Nature Chemical Biology</i> , 2021, 17, 896-905.	3.9	40
26	Binding of the RNA Chaperone Hfq on Target mRNAs Promotes the Small RNA RyhB-Induced Degradation in <i>Escherichia coli</i> . <i>Non-coding RNA</i> , 2021, 7, 64.	1.3	2
27	Kinetic modeling reveals additional regulation at co-transcriptional level by post-transcriptional sRNA regulators. <i>Cell Reports</i> , 2021, 36, 109764.	2.9	8
28	Multicolor single-molecule FRET for DNA and RNA processes. <i>Current Opinion in Structural Biology</i> , 2021, 70, 26-33.	2.6	34
29	Real-time observation of Cas9 postcatalytic domain motions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2010650118.	3.3	17
30	DNA sequence and methylation prescribe the inside-out conformational dynamics and bending energetics of DNA minicircles. <i>Nucleic Acids Research</i> , 2021, 49, 11459-11475.	6.5	11
31	CRISPR deactivation in mammalian cells using photocleavable guide RNAs. <i>STAR Protocols</i> , 2021, 2, 100909.	0.5	0
32	Single molecule methods for studying CRISPR Cas9-induced DNA unwinding. <i>Methods</i> , 2021, , .	1.9	3
33	A viral genome packaging ring-ATPase is a flexibly coordinated pentamer. <i>Nature Communications</i> , 2021, 12, 6548.	5.8	10
34	Light activation and deactivation of Cas9 for DNA repair studies. <i>Methods in Enzymology</i> , 2021, 661, 219-249.	0.4	0
35	Single-Molecule Analysis and Engineering of DNA Motors. <i>Chemical Reviews</i> , 2020, 120, 36-78.	23.0	59
36	COL2A1 Is a Novel Biomarker of Melanoma Tumor Repopulating Cells. <i>Biomedicines</i> , 2020, 8, 360.	1.4	8

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37	Increasing kinase domain proximity promotes MST2 autophosphorylation during Hippo signaling. <i>Journal of Biological Chemistry</i> , 2020, 295, 16166-16179.	1.6	10
38	Real-time monitoring of single ZTP riboswitches reveals a complex and kinetically controlled decision landscape. <i>Nature Communications</i> , 2020, 11, 4531.	5.8	36
39	Stochastic Analysis Demonstrates the Dual Role of Hfq in Chaperoning E. coli Sugar Shock Response. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 593826.	1.6	3
40	ALS/FTLD-Linked Mutations in FUS Glycine Residues Cause Accelerated Gelation and Reduced Interactions with Wild-Type FUS. <i>Molecular Cell</i> , 2020, 80, 666-681.e8.	4.5	62
41	Light-controlled twister ribozyme with single-molecule detection resolves RNA function in time and space. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 12080-12086.	3.3	15
42	Very fast CRISPR on demand. <i>Science</i> , 2020, 368, 1265-1269.	6.0	129
43	Force-dependent trans-endocytosis by breast cancer cells depletes costimulatory receptor CD80 and attenuates T cell activation. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112389.	5.3	11
44	ORCA/LRWD1 Regulates Homologous Recombination at ALT-Telomeres by Modulating Heterochromatin Organization. <i>IScience</i> , 2020, 23, 101038.	1.9	10
45	Crystal structure and ligand-induced folding of the SAM/SAH riboswitch. <i>Nucleic Acids Research</i> , 2020, 48, 7545-7556.	6.5	6
46	Continuous active development of super-resolution fluorescence microscopy. <i>Physical Biology</i> , 2020, 17, 030401.	0.8	2
47	Deoxyribozyme-based method for absolute quantification of N6-methyladenosine fractions at specific sites of RNA. <i>Journal of Biological Chemistry</i> , 2020, 295, 6992-7000.	1.6	13
48	Just Took a DNA Test, Turns Out 100% Not That Phase. <i>Molecular Cell</i> , 2020, 78, 193-194.	4.5	10
49	E. coli Rep helicase and RecA recombinase unwind G4 DNA and are important for resistance to G4-stabilizing ligands. <i>Nucleic Acids Research</i> , 2020, 48, 6640-6653.	6.5	24
50	Contractility kits promote assembly of the mechanoresponsive cytoskeletal network. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	14
51	Determinants of target prioritization and regulatory hierarchy for the bacterial small RNA SgrS. <i>Molecular Microbiology</i> , 2019, 112, 1199-1218.	1.2	26
52	Streamlining effects of extra telomeric repeat on telomeric DNA folding revealed by fluorescence-force spectroscopy. <i>Nucleic Acids Research</i> , 2019, 47, 11044-11056.	6.5	16
53	Strategy for Compositional Analysis of the Hair Cell Mechanotransduction Complex Using TIRF Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1266-1267.	0.2	1
54	Single molecule analysis of effects of non-canonical guide RNAs and specificity-enhancing mutations on Cas9-induced DNA unwinding. <i>Nucleic Acids Research</i> , 2019, 47, 11880-11888.	6.5	33

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55	An Improved Method for Bacterial Immunofluorescence Staining To Eliminate Antibody Exclusion from the Fixed Nucleoid. <i>Biochemistry</i> , 2019, 58, 4457-4465.	1.2	11
56	Nanomechanics and co-transcriptional folding of Spinach and Mango. <i>Nature Communications</i> , 2019, 10, 4318.	5.8	19
57	Junction resolving enzymes use multivalency to keep the Holliday junction dynamic. <i>Nature Chemical Biology</i> , 2019, 15, 269-275.	3.9	23
58	Accurate Background Subtraction in STED Nanoscopy by Polarization Switching. <i>ACS Photonics</i> , 2019, 6, 1789-1797.	3.2	16
59	Fight against background noise in stimulated emission depletion nanoscopy. <i>Physical Biology</i> , 2019, 16, 051002.	0.8	24
60	Nuclear speckle fusion via long-range directional motion regulates speckle morphology after transcriptional inhibition. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	64
61	Extreme mechanical diversity of human telomeric DNA revealed by fluorescence-force spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8350-8359.	3.3	41
62	Structural basis for DNA unwinding at forked dsDNA by two coordinating Pif1 helicases. <i>Nature Communications</i> , 2019, 10, 5375.	5.8	18
63	Real-Time Measurement of Molecular Tension during Cell Adhesion and Migration Using Multiplexed Differential Analysis of Tension Gauge Tethers. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 3856-3863.	2.6	29
64	Structural Mechanisms of Cooperative DNA Binding by Bacterial Single-Stranded DNA-Binding Proteins. <i>Journal of Molecular Biology</i> , 2019, 431, 178-195.	2.0	31
65	Functional instability allows access to DNA in longer transcription Activator-Like effector (TALE) arrays. <i>ELife</i> , 2019, 8, .	2.8	8
66	Hexameric helicase G40P unwinds DNA in single base pair steps. <i>ELife</i> , 2019, 8, .	2.8	17
67	The Single-Molecule Centroid Localization Algorithm Improves the Accuracy of Fluorescence Binding Assays. <i>Biochemistry</i> , 2018, 57, 1572-1576.	1.2	9
68	Quantitative Super-Resolution Imaging of Small RNAs in Bacterial Cells. <i>Methods in Molecular Biology</i> , 2018, 1737, 199-212.	0.4	6
69	Mechanisms of improved specificity of engineered Cas9s revealed by single-molecule FRET analysis. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 347-354.	3.6	103
70	TGF β 21 reinforces arterial aging in the vascular smooth muscle cell through a long-range regulation of the cytoskeletal stiffness. <i>Scientific Reports</i> , 2018, 8, 2668.	1.6	33
71	Understanding the Molecular Mechanisms of the CRISPR Toolbox Using Single Molecule Approaches. <i>ACS Chemical Biology</i> , 2018, 13, 516-526.	1.6	10
72	Editorial Overview: Single-Molecule Approaches to Difficult Challenges in Folding and Dynamics. <i>Journal of Molecular Biology</i> , 2018, 430, 405-408.	2.0	3

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73	An Automated Image Analysis Method for Segmenting Fluorescent Bacteria in Three Dimensions. <i>Biochemistry</i> , 2018, 57, 209-215.	1.2	12
74	Mechanism of polypurine tract primer generation by HIV-1 reverse transcriptase. <i>Journal of Biological Chemistry</i> , 2018, 293, 191-202.	1.6	21
75	Conducting Multiple Imaging Modes with One Fluorescence Microscope. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	7
76	RNA Localization in Bacteria. <i>Microbiology Spectrum</i> , 2018, 6, .	1.2	24
77	Precision and accuracy of single-molecule FRET measurements—a multi-laboratory benchmark study. <i>Nature Methods</i> , 2018, 15, 669-676.	9.0	350
78	RNA Localization in Bacteria. , 2018, , 421-439.		4
79	Correlating Transcription Initiation and Conformational Changes by a Single-Subunit RNA Polymerase with Near Base-Pair Resolution. <i>Molecular Cell</i> , 2018, 70, 695-706.e5.	4.5	25
80	Toward Single-Cell Single-Molecule Pull-Down. <i>Biophysical Journal</i> , 2018, 115, 283-288.	0.2	9
81	Measuring molecular mass with light. <i>Nature Photonics</i> , 2018, 12, 380-381.	15.6	0
82	Single-Molecule FRET Analysis of Replicative Helicases. <i>Methods in Molecular Biology</i> , 2018, 1805, 233-250.	0.4	3
83	Mimicking Co-Transcriptional RNA Folding Using a Superhelicase. <i>Journal of the American Chemical Society</i> , 2018, 140, 10067-10070.	6.6	44
84	Single-Molecule Studies of ssDNA-Binding Proteins Exchange. <i>Methods in Enzymology</i> , 2018, 600, 463-477.	0.4	10
85	Cdc42-dependent modulation of rigidity sensing and cell spreading in tumor repopulating cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 500, 557-563.	1.0	9
86	Real-time observation of DNA target interrogation and product release by the RNA-guided endonuclease CRISPR Cpf1 (Cas12a). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5444-5449.	3.3	156
87	Specific structural elements of the T-box riboswitch drive the two-step binding of the tRNA ligand. <i>ELife</i> , 2018, 7, .	2.8	24
88	Growth factor rattled out of its cage. <i>Nature</i> , 2017, 542, 40-41.	13.7	14
89	Single-molecule imaging reveals the translocation and DNA looping dynamics of hepatitis C virus NS3 helicase. <i>Protein Science</i> , 2017, 26, 1391-1403.	3.1	16
90	Flipping nanoscopy on its head. <i>Science</i> , 2017, 355, 582-584.	6.0	5

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91	Notch-Jagged complex structure implicates a catch bond in tuning ligand sensitivity. <i>Science</i> , 2017, 355, 1320-1324.	6.0	232
92	The Small Protein SgrT Controls Transport Activity of the Glucose-Specific Phosphotransferase System. <i>Journal of Bacteriology</i> , 2017, 199, .	1.0	71
93	Mapping cell surface adhesion by rotation tracking and adhesion footprinting. <i>Scientific Reports</i> , 2017, 7, 44502.	1.6	27
94	Metals induce transient folding and activation of the twister ribozyme. <i>Nature Chemical Biology</i> , 2017, 13, 1109-1114.	3.9	33
95	Evolution of protein-coupled RNA dynamics during hierarchical assembly of ribosomal complexes. <i>Nature Communications</i> , 2017, 8, 492.	5.8	30
96	Sphingolipids facilitate age asymmetry of membrane proteins in dividing yeast cells. <i>Molecular Biology of the Cell</i> , 2017, 28, 2712-2722.	0.9	21
97	Voltage-gated sodium channels assemble and gate as dimers. <i>Nature Communications</i> , 2017, 8, 2077.	5.8	108
98	Quantitative analysis of multilayer organization of proteins and RNA in nuclear speckles at super resolution. <i>Journal of Cell Science</i> , 2017, 130, 4180-4192.	1.2	206
99	Single-cell analysis of early antiviral gene expression reveals a determinant of stochastic <i>IFNβ</i> expression. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 857-867.	0.6	19
100	Probing Single Helicase Dynamics on Long Nucleic Acids Through Fluorescence-Force Measurement. <i>Methods in Molecular Biology</i> , 2017, 1486, 295-316.	0.4	7
101	A genetically encoded fluorescent tRNA is active in live-cell protein synthesis. <i>Nucleic Acids Research</i> , 2017, 45, 4081-4093.	6.5	13
102	Robust nonparametric quantification of clustering density of molecules in single-molecule localization microscopy. <i>PLoS ONE</i> , 2017, 12, e0179975.	1.1	4
103	A Prophage-Encoded Small RNA Controls Metabolism and Cell Division in <i>Escherichia coli</i> . <i>MSystems</i> , 2016, 1, .	1.7	38
104	Effects of cytosine modifications on DNA flexibility and nucleosome mechanical stability. <i>Nature Communications</i> , 2016, 7, 10813.	5.8	177
105	Single-Molecule Analysis of Lipid-Protein Interactions in Crude Cell Lysates. <i>Analytical Chemistry</i> , 2016, 88, 4269-4276.	3.2	16
106	Defining Single Molecular Forces Required for Notch Activation Using Nano Yoyo. <i>Nano Letters</i> , 2016, 16, 3892-3897.	4.5	73
107	Single-molecule fluorescence microscopy of native macromolecular complexes. <i>Current Opinion in Structural Biology</i> , 2016, 41, 225-232.	2.6	38
108	Nanoscale mechanics guides cellular decision making. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 929-935.	0.6	20

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109	In Planta Single-Molecule Pull-Down Reveals Tetrameric Stoichiometry of HD-ZIPIII:LITTLE ZIPPER Complexes. <i>Plant Cell</i> , 2016, 28, 1783-1794.	3.1	25
110	Ebola Virus Does Not Induce Stress Granule Formation during Infection and Sequesters Stress Granule Proteins within Viral Inclusions. <i>Journal of Virology</i> , 2016, 90, 7268-7284.	1.5	63
111	Ultrasensitivity of Cell Adhesion to the Presence of Mechanically Strong Ligands. <i>Physical Review X</i> , 2016, 6, .	2.8	7
112	Constructing modular and universal single molecule tension sensor using protein G to study mechano-sensitive receptors. <i>Scientific Reports</i> , 2016, 6, 21584.	1.6	44
113	Direct evidence for sequence-dependent attraction between double-stranded DNA controlled by methylation. <i>Nature Communications</i> , 2016, 7, 11045.	5.8	64
114	Real-time observation of DNA recognition and rejection by the RNA-guided endonuclease Cas9. <i>Nature Communications</i> , 2016, 7, 12778.	5.8	221
115	Structural dynamics of potassium-channel gating revealed by single-molecule FRET. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 31-36.	3.6	69
116	A Chemical Controller of SNARE-Driven Membrane Fusion That Primes Vesicles for Ca ²⁺ -Triggered Millisecond Exocytosis. <i>Journal of the American Chemical Society</i> , 2016, 138, 4512-4521.	6.6	21
117	Rupture force of cell adhesion ligand tethers modulates biological activities of a cell-laden hydrogel. <i>Chemical Communications</i> , 2016, 52, 4757-4760.	2.2	6
118	Spider Silk Peptide Is a Compact, Linear Nanospring Ideal for Intracellular Tension Sensing. <i>Nano Letters</i> , 2016, 16, 2096-2102.	4.5	61
119	Natural antisense RNA promotes 3' end processing and maturation of MALAT1 lncRNA. <i>Nucleic Acids Research</i> , 2016, 44, 2898-2908.	6.5	58
120	Probing Nature's Nanomachines One Molecule at a Time. <i>Biophysical Journal</i> , 2016, 110, 1004-1007.	0.2	13
121	Plantazolicin Is an Ultranarrow-Spectrum Antibiotic That Targets the <i>Bacillus anthracis</i> Membrane. <i>ACS Infectious Diseases</i> , 2016, 2, 207-220.	1.8	37
122	Kaposi's Sarcoma-Associated Herpesvirus Viral Interferon Regulatory Factor 4 (vIRF4) Perturbs the G ₁ -S Cell Cycle Progression via Dereglulation of the <i>cyclin D1</i> Gene. <i>Journal of Virology</i> , 2016, 90, 1139-1143.	1.5	12
123	The light side of the force. <i>ELife</i> , 2016, 5, .	2.8	0
124	Tandem Spinach Array for mRNA Imaging in Living Bacterial Cells. <i>Scientific Reports</i> , 2015, 5, 17295.	1.6	88
125	The preRC protein ORCA organizes heterochromatin by assembling histone H3 lysine 9 methyltransferases on chromatin. <i>ELife</i> , 2015, 4, .	2.8	38
126	Determination of in vivo target search kinetics of regulatory noncoding RNA. <i>Science</i> , 2015, 347, 1371-1374.	6.0	115

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127	A parameter estimation method for fluorescence lifetime data. BMC Research Notes, 2015, 8, 230.	0.6	1
128	Effects of DNA replication on mRNA noise. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 15886-15891.	3.3	46
129	Asymmetric Unwrapping of Nucleosomes under Tension Directed by DNA Local Flexibility. Cell, 2015, 160, 1135-1144.	13.5	261
130	Single molecular force across single integrins dictates cell spreading. Integrative Biology (United Kingdom), 2015, 7, 110-117.	0.6	42
131	Nucleosomes undergo slow spontaneous gapping. Nucleic Acids Research, 2015, 43, 3964-3971.	6.5	60
132	BEND3 represses rDNA transcription by stabilizing a NoRC component via USP21 deubiquitinase. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8338-8343.	3.3	35
133	Direct observation of structure-function relationship in a nucleic acid processing enzyme. Science, 2015, 348, 352-354.	6.0	161
134	Engineering of a superhelicase through conformational control. Science, 2015, 348, 344-347.	6.0	88
135	Dual-color three-dimensional STED microscopy with a single high-repetition-rate laser. Optics Letters, 2015, 40, 2653.	1.7	41
136	Allosteric Regulation of E-Cadherin Adhesion. Journal of Biological Chemistry, 2015, 290, 21749-21761.	1.6	41
137	Integrin Molecular Tension within Motile Focal Adhesions. Biophysical Journal, 2015, 109, 2259-2267.	0.2	72
138	RNA Fluorescence In Situ Hybridization in Cultured Mammalian Cells. Methods in Molecular Biology, 2015, 1206, 123-136.	0.4	18
139	Dynamic Growth and Shrinkage Govern the pH Dependence of RecA Filament Stability. PLoS ONE, 2015, 10, e0115611.	1.1	9
140	Distinct mechanisms regulating mechanical force-induced Ca ²⁺ signals at the plasma membrane and the ER in human MSCs. eLife, 2015, 4, e04876.	2.8	90
141	Towards a Computational Model of a Methane Producing Archaeum. Archaea, 2014, 2014, 1-18.	2.3	16
142	Single molecule analysis of <i>Thermus thermophilus</i> SSB protein dynamics on single-stranded DNA. Nucleic Acids Research, 2014, 42, 3821-3832.	6.5	25
143	Structural mechanisms of PriA-mediated DNA replication restart. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1373-1378.	3.3	94
144	Stoichiometry and assembly of mTOR complexes revealed by single-molecule pulldown. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17833-17838.	3.3	51

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145	Single-molecule pull-down (SiMPull) for new-age biochemistry. <i>BioEssays</i> , 2014, 36, 1109-1119.	1.2	25
146	Single-molecule methods leap ahead. <i>Nature Methods</i> , 2014, 11, 1015-1018.	9.0	77
147	Ultraslow relaxation of confined DNA. <i>Science</i> , 2014, 345, 380-381.	6.0	8
148	Kaposi's Sarcoma-Associated Herpesvirus Viral Interferon Regulatory Factor 4 (vIRF4) Targets Expression of Cellular IRF4 and the Myc Gene To Facilitate Lytic Replication. <i>Journal of Virology</i> , 2014, 88, 2183-2194.	1.5	30
149	Ultrafast Redistribution of <i>E. coli</i> SSB along Long Single-Stranded DNA via Intersegment Transfer. <i>Journal of Molecular Biology</i> , 2014, 426, 2413-2421.	2.0	57
150	Single-Molecule Fluorescence Reveals the Unwinding Stepping Mechanism of Replicative Helicase. <i>Cell Reports</i> , 2014, 6, 1037-1045.	2.9	55
151	Protein-guided RNA dynamics during early ribosome assembly. <i>Nature</i> , 2014, 506, 334-338.	13.7	133
152	Crosstalk between the cGAS DNA Sensor and Beclin-1 Autophagy Protein Shapes Innate Antimicrobial Immune Responses. <i>Cell Host and Microbe</i> , 2014, 15, 228-238.	5.1	291
153	Single-molecule optical spectroscopy. <i>Chemical Society Reviews</i> , 2014, 43, 973.	18.7	52
154	An improved surface passivation method for single-molecule studies. <i>Nature Methods</i> , 2014, 11, 1233-1236.	9.0	120
155	A Price To Pay for Relaxed Substrate Specificity: A Comparative Kinetic Analysis of the Class II Lanthipeptide Synthetases ProcM and HalM2. <i>Journal of the American Chemical Society</i> , 2014, 136, 17513-17529.	6.6	66
156	Designing a nine cysteine-less DNA packaging motor from bacteriophage T4 reveals new insights into ATPase structure and function. <i>Virology</i> , 2014, 468-470, 660-668.	1.1	4
157	Single-molecule packaging initiation in real time by a viral DNA packaging machine from bacteriophage T4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 15096-15101.	3.3	22
158	Targeting DNA G-quadruplexes with Helical Small Molecules. <i>ChemBioChem</i> , 2014, 15, 2563-2570.	1.3	31
159	A Coarse-Grained Model of Unstructured Single-Stranded DNA Derived from Atomistic Simulation and Single-Molecule Experiment. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 2891-2896.	2.3	79
160	The ribosome uses cooperative conformational changes to maximize and regulate the efficiency of translation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 12073-12078.	3.3	42
161	Matrix softness regulates plasticity of tumour-repopulating cells via H3K9 demethylation and Sox2 expression. <i>Nature Communications</i> , 2014, 5, 4619.	5.8	162
162	Dynamic look at DNA unwinding by a replicative helicase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E827-35.	3.3	60

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163	Cooperative Conformational Transitions Keep RecA Filament Active During ATPase Cycle. <i>Journal of the American Chemical Society</i> , 2014, 136, 14796-14800.	6.6	24
164	EttA regulates translation by binding the ribosomal E site and restricting ribosome-tRNA dynamics. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 152-159.	3.6	80
165	Single-Molecule Imaging Reveals the Translocation Dynamics of Hepatitis C Virus NS3 Helicase. <i>Biophysical Journal</i> , 2014, 106, 72a.	0.2	2
166	Relaxed Rotational and Scrunching Changes in P266L Mutant of T7 RNA Polymerase Reduce Short Abortive RNAs while Delaying Transition into Elongation. <i>PLoS ONE</i> , 2014, 9, e91859.	1.1	11
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