Achillefs Kapanidis

List of Publications by Year in Descending Order

29 papers	766 citations	14 h-index	27 g-index
34 ext. papers	1,101 ext. citations	12.1 avg, IF	4.28 L-index

#	Paper	IF	Citations
29	Transcription initiation at a consensus bacterial promoter proceeds via a "bind-unwind-load-and-lock" mechanism. *ELife*, **2021**, 10,	8.9	2
28	Transient non-specific DNA binding dominates the target search of bacterial DNA-binding proteins. *Molecular Cell*, **2021**, 81, 1499-1514.e6	17.6	9
27	RNA polymerase clamp conformational dynamics: long-lived states and modulation by crowding, cations, and nonspecific DNA binding. *Nucleic Acids Research*, **2021**, 49, 2790-2802	20.1	2
26	The switching mechanism of the bacterial rotary motor combines tight regulation with inherent flexibility. *EMBO Journal*, **2021**, 40, e104683	13	4
25	High-throughput nitrogen-vacancy center imaging for nanodiamond photophysical characterization and pH nanosensing. *Nanoscale*, **2020**, 12, 21821-21831	7.7	6
24	Closing and opening of the RNA polymerase trigger loop. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 15642-15649	11.5	7
23	Substrate conformational dynamics facilitate structure-specific recognition of gapped DNA by DNA polymerase. *Nucleic Acids Research*, **2019**, 47, 10788-10800	20.1	24
22	Guidelines for DNA recombination and repair studies: Mechanistic assays of DNA repair processes. *Microbial Cell*, **2019**, 6, 65-101	3.9	5
21	Recent Advances in Understanding σ0-Dependent Transcription Initiation Mechanisms. *Journal of Molecular Biology*, **2019**, 431, 3947-3959	6.5	30
20	Real-time analysis of single influenza virus replication complexes reveals large promoter-dependent differences in initiation dynamics. *Nucleic Acids Research*, **2019**, 47, 6466-6477	20.1	7
19	Tracking antibiotic mechanisms. *Nature Reviews Microbiology*, **2019**, 17, 201	22.2	3
18	Confinement-Free Wide-Field Ratiometric Tracking of Single Fluorescent Molecules. *Biophysical Journal*, **2019**, 117, 2141-2153	2.9	2
17	Rediscovering Bacteria through Single-Molecule Imaging in Living Cells. *Biophysical Journal*, **2018**, 115, 190-202	2.9	16
16	The RNA polymerase clamp interconverts dynamically among three states and is stabilized in a partly closed state by ppGpp. *Nucleic Acids Research*, **2018**, 46, 7284-7295	20.1	24
15	Precision and accuracy of single-molecule FRET measurements-a multi-laboratory benchmark study. *Nature Methods*, **2018**, 15, 669-676	21.6	188
14	Conformational heterogeneity and bubble dynamics in single bacterial transcription initiation complexes. *Nucleic Acids Research*, **2018**, 46, 677-688	20.1	18
13	Tracking tRNA packages. *Nature Chemical Biology*, **2018**, 14, 528-529	11.7	

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12	Understanding Protein Mobility in Bacteria by Tracking Single Molecules. *Journal of Molecular Biology*, **2018**, 430, 4443-4455	6.5	29
11	Tracking Low-Copy Transcription Factors in Living Bacteria: The Case of the lac Repressor. *Biophysical Journal*, **2017**, 112, 1316-1327	2.9	28
10	In vivo single-RNA tracking shows that most tRNA diffuses freely in live bacteria. *Nucleic Acids Research*, **2017**, 45, 926-937	20.1	28
9	RNA Polymerase Pausing during Initial Transcription. *Molecular Cell*, **2016**, 63, 939-50	17.6	74
8	Solution-Based Single-Molecule FRET Studies of K(+) Channel Gating in a Lipid Bilayer. *Biophysical Journal*, **2016**, 110, 2663-2670	2.9	17
7	Stable end-sealed DNA as robust nano-rulers for single-molecule fluorescence. *Chemical Science*, **2016**, 7, 4418-4422	9.4	6
6	DNA Polymerase Conformational Dynamics and the Role of Fidelity-Conferring Residues: Insights from Computational Simulations. *Frontiers in Molecular Biosciences*, **2016**, 3, 20	5.6	8
5	Single-molecule FRET reveals the pre-initiation and initiation conformations of influenza virus promoter RNA. *Nucleic Acids Research*, **2016**, 44, 10304-10315	20.1	27
4	Live-cell superresolution microscopy reveals the organization of RNA polymerase in the bacterial nucleoid. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E4390-9	11.5	162
3	Single in the (Cell) City: a protein-folding story. *Nature Methods*, **2015**, 12, 715-6	21.6	1
2	Assembly, translocation, and activation of XerCD-dif recombination by FtsK translocase analyzed in real-time by FRET and two-color tethered fluorophore motion. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E5133-41	11.5	14
1	Real-time single-molecule studies of the motions of DNA polymerase fingers illuminate DNA synthesis mechanisms. *Nucleic Acids Research*, **2015**, 43, 5998-6008	20.1	25