Joseph J Loparo

List of Publications by Year
in descending order

36 papers	1,604 citations	394421 19 h-index	414414 32 g-index
42 all docs	42 docs citations	42 times ranked	1843 citing authors

#	Article	IF	Citations
1	Real-Time Imaging of Polioviral RNA Translocation across a Membrane. MBio, 2021, 12, .	4.1	2
2	Repair of DNA Double-Strand Breaks by the Nonhomologous End Joining Pathway. Annual Review of Biochemistry, 2021, 90, 137-164.	11.1	76
3	More than just content: building community in the graduate classroom. Nature Biotechnology, 2021, 39, 1161-1165.	17.5	1
4	A Mechanism to Minimize Errors during Non-homologous End Joining. Molecular Cell, 2020, 77, 1080-1091.e8.	9.7	65
5	Self-Efficacy and Performance of Research Skills among First-Semester Bioscience Doctoral Students. CBE Life Sciences Education, 2020, 19, .	2.3	3
6	Catalytically inactive T7 DNA polymerase imposes a lethal replication roadblock. Journal of Biological Chemistry, 2020, 295, 9542-9550.	3.4	3
7	XLF acts as a flexible connector during non-homologous end joining. ELife, 2020, 9, .	6.0	22
8	Experimental Design Chalk Talks, a Formative Assessment Employed in a Graduate Molecular Biology Course, Promotes Active Learning and Growth in the Competencies of Experimental Design and Science Communication. FASEB Journal, 2020, 34, 1-1.	0.5	0
9	The Gene-Silencing Protein MORC-1 Topologically Entraps DNA and Forms Multimeric Assemblies to Cause DNA Compaction. Molecular Cell, 2019, 75, 700-710.e6.	9.7	34
10	Guidelines for DNA recombination and repair studies: Mechanistic assays of DNA repair processes. Microbial Cell, 2019, 6, 65-101.	3.2	10
11	The Role of Noncognate Sites in the 1D Search Mechanism of EcoRI. Biophysical Journal, 2019, 116, 2367-2377.	0.5	8
12	Protein translocation by the SecA ATPase occurs by a powerâ€stroke mechanism. EMBO Journal, 2019, 38, .	7.8	47
13	A Flow-Extension Tethered Particle Motion Assay for Single-Molecule Proteolysis. Biochemistry, 2019, 58, 2509-2518.	2.5	2
14	A gatekeeping function of the replicative polymerase controls pathway choice in the resolution of lesion-stalled replisomes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 25591-25601.	7.1	17
15	Embedding academic and professional skills training with experimental-design chalk talks. Nature Biotechnology, 2019, 37, 1523-1527.	17.5	3
16	A Lethal Replication Roadblock Imposed by a Catalytically Inactive DNA Polymerase. FASEB Journal, 2019, 33, lb174.	0.5	0
17	A single XLF dimer bridges DNA ends during nonhomologous end joining. Nature Structural and Molecular Biology, 2018, 25, 877-884.	8.2	52
18	Observing Bacterial Chromatin Protein-DNA Interactions by Combining DNA Flow-Stretching with Single-Molecule Imaging. Methods in Molecular Biology, 2018, 1837, 277-299.	0.9	4

#	Article	IF	Citations
19	Single-molecule imaging reveals multiple pathways for the recruitment of translesion polymerases after DNA damage. Nature Communications, 2017, 8, 2170.	12.8	29
20	A network of cis and trans interactions is required for ParB spreading. Nucleic Acids Research, 2017, 45, 7106-7117.	14.5	44
21	Ensemble and Single-Molecule Analysis of Non-Homologous End Joining in Frog Egg Extracts. Methods in Enzymology, 2017, 591, 233-270.	1.0	19
22	A general approach to visualize protein binding and DNA conformation without protein labelling. Nature Communications, 2016, 7, 10976.	12.8	30
23	Mapping DNA polymerase errors by single-molecule sequencing. Nucleic Acids Research, 2016, 44, e118-e118.	14.5	33
24	A single molecule assay for measuring site-specific DNA cleavage. Analytical Biochemistry, 2016, 495, 3-5.	2.4	9
25	Two-Stage Synapsis of DNA Ends during Non-homologous End Joining. Molecular Cell, 2016, 61, 850-858.	9.7	162
26	Exchange between<i>Escherichia coli</i>polymerases II and III on a processivity clamp. Nucleic Acids Research, 2016, 44, 1681-1690.	14.5	32
27	Multistep assembly of DNA condensation clusters by SMC. Nature Communications, 2016, 7, 10200.	12.8	50
28	Mechanical Allostery: Evidence for a Force Requirement in the Proteolytic Activation of Notch. Developmental Cell, 2015, 33, 729-736.	7.0	288
29	DNA Motion Capture Reveals the Mechanical Properties of DNA at the Mesoscale. Biophysical Journal, 2015, 108, 2532-2540.	0.5	18
30	Building bridges within the bacterial chromosome. Trends in Genetics, 2015, 31, 164-173.	6.7	53
31	A Genetic Selection for dinB Mutants Reveals an Interaction between DNA Polymerase IV and the Replicative Polymerase That Is Required for Translesion Synthesis. PLoS Genetics, 2015, 11, e1005507.	3.5	26
32	A Singleâ€Molecule Reconstitution of Translesion Synthesis and Competition Between DNA Polymerases. FASEB Journal, 2015, 29, 561.6.	0.5	0
33	Condensation and localization of the partitioning protein ParB on the bacterial chromosome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8809-8814.	7.1	96
34	Polymerase exchange on single DNA molecules reveals processivity clamp control of translesion synthesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7647-7652.	7.1	76
35	ParB spreading requires DNA bridging. Genes and Development, 2014, 28, 1228-1238.	5.9	177
36	Simultaneous single-molecule measurements of phage T7 replisome composition and function reveal the mechanism of polymerase exchange. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3584-3589.	7.1	106