

# Joseph J Loparo

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Mechanical Allostery: Evidence for a Force Requirement in the Proteolytic Activation of Notch. <i>Developmental Cell</i> , 2015, 33, 729-736.	7.0	288
2	ParB spreading requires DNA bridging. <i>Genes and Development</i> , 2014, 28, 1228-1238.	5.9	177
3	Two-Stage Synapsis of DNA Ends during Non-homologous End Joining. <i>Molecular Cell</i> , 2016, 61, 850-858.	9.7	162
4	Simultaneous single-molecule measurements of phage T7 replisome composition and function reveal the mechanism of polymerase exchange. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 3584-3589.	7.1	106
5	Condensation and localization of the partitioning protein ParB on the bacterial chromosome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8809-8814.	7.1	96
6	Polymerase exchange on single DNA molecules reveals processivity clamp control of translesion synthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 7647-7652.	7.1	76
7	Repair of DNA Double-Strand Breaks by the Nonhomologous End Joining Pathway. <i>Annual Review of Biochemistry</i> , 2021, 90, 137-164.	11.1	76
8	A Mechanism to Minimize Errors during Non-homologous End Joining. <i>Molecular Cell</i> , 2020, 77, 1080-1091.e8.	9.7	65
9	Building bridges within the bacterial chromosome. <i>Trends in Genetics</i> , 2015, 31, 164-173.	6.7	53
10	A single XLF dimer bridges DNA ends during nonhomologous end joining. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 877-884.	8.2	52
11	Multistep assembly of DNA condensation clusters by SMC. <i>Nature Communications</i> , 2016, 7, 10200.	12.8	50
12	Protein translocation by the SecA ATPase occurs by a powerâ€stroke mechanism. <i>EMBO Journal</i> , 2019, 38, .	7.8	47
13	A network of cis and trans interactions is required for ParB spreading. <i>Nucleic Acids Research</i> , 2017, 45, 7106-7117.	14.5	44
14	The Gene-Silencing Protein MORC-1 Topologically Entraps DNA and Forms Multimeric Assemblies to Cause DNA Compaction. <i>Molecular Cell</i> , 2019, 75, 700-710.e6.	9.7	34
15	Mapping DNA polymerase errors by single-molecule sequencing. <i>Nucleic Acids Research</i> , 2016, 44, e118-e118.	14.5	33
16	Exchange between <i>Escherichia coli</i> polymerases II and III on a processivity clamp. <i>Nucleic Acids Research</i> , 2016, 44, 1681-1690.	14.5	32
17	A general approach to visualize protein binding and DNA conformation without protein labelling. <i>Nature Communications</i> , 2016, 7, 10976.	12.8	30
18	Single-molecule imaging reveals multiple pathways for the recruitment of translesion polymerases after DNA damage. <i>Nature Communications</i> , 2017, 8, 2170.	12.8	29

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19	A Genetic Selection for <i>dinB</i> Mutants Reveals an Interaction between DNA Polymerase IV and the Replicative Polymerase That Is Required for Translesion Synthesis. <i>PLoS Genetics</i> , 2015, 11, e1005507.	3.5	26
20	XLF acts as a flexible connector during non-homologous end joining. <i>ELife</i> , 2020, 9, .	6.0	22
21	Ensemble and Single-Molecule Analysis of Non-Homologous End Joining in Frog Egg Extracts. <i>Methods in Enzymology</i> , 2017, 591, 233-270.	1.0	19
22	DNA Motion Capture Reveals the Mechanical Properties of DNA at the Mesoscale. <i>Biophysical Journal</i> , 2015, 108, 2532-2540.	0.5	18
23	A gatekeeping function of the replicative polymerase controls pathway choice in the resolution of lesion-stalled replisomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25591-25601.	7.1	17
24	Guidelines for DNA recombination and repair studies: Mechanistic assays of DNA repair processes. <i>Microbial Cell</i> , 2019, 6, 65-101.	3.2	10
25	A single molecule assay for measuring site-specific DNA cleavage. <i>Analytical Biochemistry</i> , 2016, 495, 3-5.	2.4	9
26	The Role of Noncognate Sites in the 1D Search Mechanism of EcoRI. <i>Biophysical Journal</i> , 2019, 116, 2367-2377.	0.5	8
27	Observing Bacterial Chromatin Protein-DNA Interactions by Combining DNA Flow-Stretching with Single-Molecule Imaging. <i>Methods in Molecular Biology</i> , 2018, 1837, 277-299.	0.9	4
28	Embedding academic and professional skills training with experimental-design chalk talks. <i>Nature Biotechnology</i> , 2019, 37, 1523-1527.	17.5	3
29	Self-Efficacy and Performance of Research Skills among First-Semester Bioscience Doctoral Students. <i>CBE Life Sciences Education</i> , 2020, 19, .	2.3	3
30	Catalytically inactive T7 DNA polymerase imposes a lethal replication roadblock. <i>Journal of Biological Chemistry</i> , 2020, 295, 9542-9550.	3.4	3
31	A Flow-Extension Tethered Particle Motion Assay for Single-Molecule Proteolysis. <i>Biochemistry</i> , 2019, 58, 2509-2518.	2.5	2
32	Real-Time Imaging of Polioviral RNA Translocation across a Membrane. <i>MBio</i> , 2021, 12, .	4.1	2
33	More than just content: building community in the graduate classroom. <i>Nature Biotechnology</i> , 2021, 39, 1161-1165.	17.5	1
34	A Single-Molecule Reconstitution of Translesion Synthesis and Competition Between DNA Polymerases. <i>FASEB Journal</i> , 2015, 29, 561.6.	0.5	0
35	A Lethal Replication Roadblock Imposed by a Catalytically Inactive DNA Polymerase. <i>FASEB Journal</i> , 2019, 33, 1b174.	0.5	0
36	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. <i>FASEB Journal</i> , 2020, 34, 1-1.	0.5	0