

Kenneth J Marians

List of Publications by Year in descending order

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63
papers

5,846
citations

101543

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123424

61
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65
all docs

65
docs citations

65
times ranked

3454
citing authors

#	ARTICLE	IF	CITATIONS
1	The importance of repairing stalled replication forks. <i>Nature</i> , 2000, 404, 37-41.	27.8	1,008
2	Coupling of a Replicative Polymerase and Helicase: A β -DnaB Interaction Mediates Rapid Replication Fork Movement. <i>Cell</i> , 1996, 84, 643-650.	28.9	374
3	Prokaryotic DNA Replication. <i>Annual Review of Biochemistry</i> , 1992, 61, 673-715.	11.1	322
4	DNA gyrase and topoisomerase IV: biochemical activities, physiological roles during chromosome replication, and drug sensitivities. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1998, 1400, 29-43.	2.4	311
5	Replication fork reactivation downstream of a blocked nascent leading strand. <i>Nature</i> , 2006, 439, 557-562.	27.8	285
6	Replisome assembly and the direct restart of stalled replication forks. <i>Nature Reviews Molecular Cell Biology</i> , 2006, 7, 932-943.	37.0	259
7	Rescuing Stalled or Damaged Replication Forks. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a012815-a012815.	5.5	197
8	The Structure of Supercoiled Intermediates in DNA Replication. <i>Cell</i> , 1998, 94, 819-827.	28.9	153
9	The Disposition of Nascent Strands at Stalled Replication Forks Dictates the Pathway of Replisome Loading during Restart. <i>Molecular Cell</i> , 2005, 17, 733-743.	9.7	137
10	Independent and Stochastic Action of DNA Polymerases in the Replisome. <i>Cell</i> , 2017, 169, 1201-1213.e17.	28.9	136
11	Lesion Bypass and the Reactivation of Stalled Replication Forks. <i>Annual Review of Biochemistry</i> , 2018, 87, 217-238.	11.1	135
12	The Interaction between Helicase and Primase Sets the Replication Fork Clock. <i>Journal of Biological Chemistry</i> , 1996, 271, 21398-21405.	3.4	133
13	Structure of the SSB-DNA polymerase III interface and its role in DNA replication. <i>EMBO Journal</i> , 2011, 30, 4236-4247.	7.8	132
14	Resolution of Converging Replication Forks by RecQ and Topoisomerase III. <i>Molecular Cell</i> , 2008, 30, 779-789.	9.7	123
15	The <i>Escherichia coli</i> Replisome Is Inherently DNA Damage Tolerant. <i>Science</i> , 2011, 334, 235-238.	12.6	121
16	PriA Mediates DNA Replication Pathway Choice at Recombination Intermediates. <i>Molecular Cell</i> , 2003, 11, 817-826.	9.7	106
17	Two Distinct Modes of Strand Unlinking during θ -Type DNA Replication. <i>Journal of Biological Chemistry</i> , 1996, 271, 21529-21535.	3.4	103
18	β , Couples the Leading- and Lagging-strand Polymerases at the <i>Escherichia coli</i> DNA Replication Fork. <i>Journal of Biological Chemistry</i> , 1996, 271, 21406-21412.	3.4	103

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19	Temporal Regulation of Topoisomerase IV Activity in <i>E. coli</i> . <i>Molecular Cell</i> , 2003, 11, 189-201.	9.7	102
20	A Physical and Functional Interaction between <i>Escherichia coli</i> FtsK and Topoisomerase IV. <i>Journal of Biological Chemistry</i> , 2003, 278, 44639-44644.	3.4	101
21	Physical and functional interaction between the condensin MukB and the decatenase topoisomerase IV in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18826-18831.	7.1	97
22	Recruitment to stalled replication forks of the PriA DNA helicase and replisome-loading activities is essential for survival. <i>DNA Repair</i> , 2010, 9, 202-209.	2.8	95
23	Untangling intracellular DNA topology. <i>Molecular Microbiology</i> , 2004, 52, 925-931.	2.5	89
24	dnaC mutations suppress defects in DNA replication- and recombination-associated functions in priB and priC double mutants in <i>Escherichia coli</i> K-12. <i>Molecular Microbiology</i> , 1999, 34, 91-101.	2.5	86
25	Topoisomerase III Can Serve as the Cellular Decatenase in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 8653-8660.	3.4	76
26	Dynamics of Leading-Strand Lesion Skipping by the Replisome. <i>Molecular Cell</i> , 2013, 52, 855-865.	9.7	72
27	Protein-DNA complexes are the primary sources of replication fork pausing in <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7252-7257.	7.1	71
28	Mechanisms of replication fork restart in <i>Escherichia coli</i> . <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2004, 359, 71-77.	4.0	64
29	SetB: an integral membrane protein that affects chromosome segregation in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2003, 50, 495-509.	2.5	59
30	[40] Ψ X174-Type primosomal proteins: Purification and assay. <i>Methods in Enzymology</i> , 1995, 262, 507-521.	1.0	53
31	Role of the Core DNA Polymerase III Subunits at the Replication Fork. <i>Journal of Biological Chemistry</i> , 1998, 273, 2452-2457.	3.4	52
32	Ψ , Protects Ψ^2 in the Leading-strand Polymerase Complex at the Replication Fork. <i>Journal of Biological Chemistry</i> , 1996, 271, 4315-4318.	3.4	51
33	Characterization of the Unique C Terminus of the <i>Escherichia coli</i> Ψ , DnaX Protein. <i>Journal of Biological Chemistry</i> , 2000, 275, 15512-15519.	3.4	50
34	Actin Homolog MreB Affects Chromosome Segregation by Regulating Topoisomerase IV in <i>Escherichia coli</i> . <i>Molecular Cell</i> , 2009, 33, 171-180.	9.7	45
35	Identification of a unique domain essential for <i>Escherichia coli</i> DNA topoisomerase III-catalysed decatenation of replication intermediates. <i>Molecular Microbiology</i> , 2000, 35, 888-895.	2.5	42
36	A role for topoisomerase III in <i>Escherichia coli</i> chromosome segregation. <i>Molecular Microbiology</i> , 2012, 86, 1007-1022.	2.5	40

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37	Regression of Replication Forks Stalled by Leading-strand Template Damage. <i>Journal of Biological Chemistry</i> , 2014, 289, 28376-28387.	3.4	39
38	Replisome-mediated Translesion Synthesis and Leading Strand Template Lesion Skipping Are Competing Bypass Mechanisms. <i>Journal of Biological Chemistry</i> , 2014, 289, 32811-32823.	3.4	38
39	Topoisomerase III Acts at the Replication Fork To Remove Precatenanes. <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	38
40	The MukB-ParC Interaction Affects the Intramolecular, Not Intermolecular, Activities of Topoisomerase IV. <i>Journal of Biological Chemistry</i> , 2013, 288, 7653-7661.	3.4	36
41	Purification and Characterization of DnaC810, a Primosomal Protein Capable of Bypassing PriA Function. <i>Journal of Biological Chemistry</i> , 2000, 275, 8196-8205.	3.4	32
42	DNA chirality-dependent stimulation of topoisomerase IV activity by the C-terminal AAA+ domain of FtsK. <i>Nucleic Acids Research</i> , 2010, 38, 3031-3040.	14.5	27
43	The bacterial condensin MukB compacts DNA by sequestering supercoils and stabilizing topologically isolated loops. <i>Journal of Biological Chemistry</i> , 2017, 292, 16904-16920.	3.4	26
44	Replisome bypass of transcription complexes and R-loops. <i>Nucleic Acids Research</i> , 2020, 48, 10353-10367.	14.5	26
45	Replisome-mediated translesion synthesis by a cellular replicase. <i>Journal of Biological Chemistry</i> , 2017, 292, 13833-13842.	3.4	21
46	Identification of dnaX as a High-Copy Suppressor of the Conditional Lethal and Partition Phenotypes of the parE10 Allele. <i>Journal of Bacteriology</i> , 1998, 180, 1232-1240.	2.2	21
47	Understanding how the replisome works. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 125-127.	8.2	19
48	Characterization of the Nucleoid-associated Protein YejK. <i>Journal of Biological Chemistry</i> , 2013, 288, 31503-31516.	3.4	17
49	The MukB-topoisomerase IV interaction is required for proper chromosome compaction. <i>Journal of Biological Chemistry</i> , 2017, 292, 16921-16932.	3.4	17
50	Regression of Replication Forks Stalled by Leading-strand Template Damage. <i>Journal of Biological Chemistry</i> , 2014, 289, 28388-28398.	3.4	15
51	MukB-mediated Catenation of DNA Is ATP and MukEF Independent. <i>Journal of Biological Chemistry</i> , 2016, 291, 23999-24008.	3.4	13
52	Overexpression and Purification of Bacterial Topoisomerase IV. , 1999, 94, 163-170.		12
53	Mutational Analysis of Escherichia coli Topoisomerase IV. <i>Journal of Biological Chemistry</i> , 2000, 275, 4104-4111.	3.4	11
54	Mutational Analysis of Escherichia coli Topoisomerase IV. <i>Journal of Biological Chemistry</i> , 2000, 275, 4099-4103.	3.4	9

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55	Bypass of complex co-directional replication-transcription collisions by replisome skipping. <i>Nucleic Acids Research</i> , 2021, 49, 9870-9885.	14.5	9
56	The MukB-topoisomerase IV interaction mutually suppresses their catalytic activities. <i>Nucleic Acids Research</i> , 2022, 50, 2621-2634.	14.5	9
57	The recombination mediator proteins RecFOR maintain RecA* levels for maximal DNA polymerase V Mut activity. <i>Journal of Biological Chemistry</i> , 2019, 294, 852-860.	3.4	8
58	Two components of DNA replication-dependent LexA cleavage. <i>Journal of Biological Chemistry</i> , 2020, 295, 10368-10379.	3.4	8
59	Rescuing US biomedical research: Some comments on Alberts, Kirschner, Tilghman, and Varmus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2632-3.	7.1	7
60	Dissecting DNA Compaction by the Bacterial Condensin MukB. <i>Methods in Molecular Biology</i> , 2019, 2004, 169-180.	0.9	2
61	Intersubunit and intrasubunit interactions driving the MukBEF ATPase. <i>Journal of Biological Chemistry</i> , 2022, 298, 101964.	3.4	2
62	A role for topoisomerase III in <i>Escherichia coli</i> chromosome segregation. <i>Molecular Microbiology</i> , 2012, 86, 1548-1548.	2.5	1
63	Replication Hits 50. , 0, , 167-176.		0