Jan Karlseder

List of Publications by Year
in descending order

55 papers	8,346 citations	109137 35 h-index	168136 53 g-index
82 all docs	82 docs citations	82 times ranked	8732 citing authors

#	Article	IF	Citations
1	Mammalian Telomeres Resemble Fragile Sites and Require TRF1 for Efficient Replication. Cell, 2009, 138, 90-103.	13.5	835
2	Telomeres: protecting chromosomes against genome instability. Nature Reviews Molecular Cell Biology, 2010, 11, 171-181.	16.1	775
3	Senescence Induced by Altered Telomere State, Not Telomere Loss. Science, 2002, 295, 2446-2449.	6.0	711
4	Defective Telomere Lagging Strand Synthesis in Cells Lacking WRN Helicase Activity. Science, 2004, 306, 1951-1953.	6.0	546
5	Replication and protection of telomeres. Nature, 2007, 447, 924-931.	13.7	409
6	Reduced histone biosynthesis and chromatin changes arising from a damage signal at telomeres. Nature Structural and Molecular Biology, 2010, 17, 1218-1225.	3.6	365
7	DNA Ligase IV-Dependent NHEJ of Deprotected Mammalian Telomeres in G1 and G2. Current Biology, 2002, 12, 1635-1644.	1.8	336
8	The Telomeric Protein TRF2 Binds the ATM Kinase and Can Inhibit the ATM-Dependent DNA Damage Response. PLoS Biology, 2004, 2, e240.	2.6	306
9	The DNA Damage Machinery and Homologous Recombination Pathway Act Consecutively to Protect Human Telomeres. Cell, 2006, 127, 709-720.	13.5	306
10	TERRA and hnRNPA1 orchestrate an RPA-to-POT1 switch on telomeric single-stranded DNA. Nature, 2011, 471, 532-536.	13.7	300
11	Autophagic cell death restricts chromosomal instability during replicative crisis. Nature, 2019, 565, 659-663.	13.7	297
12	Functional Human Telomeres Are Recognized as DNA Damage in G2 of the Cell Cycle. Molecular Cell, 2005, 20, 551-561.	4.5	252
13	Telomere dysfunction as a cause of genomic instability in Werner syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 2205-2210.	3.3	207
14	Rapid induction of alternative lengthening of telomeres by depletion of the histone chaperone ASF1. Nature Structural and Molecular Biology, 2014, 21, 167-174.	3.6	207
15	Regulation of DNA repair pathway choice in S and G2 phases by the NHEJ inhibitor CYREN. Nature, 2017, 549, 548-552.	13.7	184
16	Complex interactions between the DNA-damage response and mammalian telomeres. Nature Structural and Molecular Biology, 2015, 22, 859-866.	3.6	171
17	Targeted Deletion Reveals an Essential Function for the Telomere Length Regulator Trf1. Molecular and Cellular Biology, 2003, 23, 6533-6541.	1.1	150
18	A telomere-dependent DNA damage checkpoint induced by prolonged mitotic arrest. Nature Structural and Molecular Biology, 2012, 19, 387-394.	3.6	147

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19	Asf1b, the necessary Asf1 isoform for proliferation, is predictive of outcome in breast cancer. EMBO Journal, 2011, 30, 480-493.	3.5	137
20	The BLM helicase contributes to telomere maintenance through processing of late-replicating intermediate structures. Nucleic Acids Research, 2012, 40, 7358-7367.	6.5	136
21	TZAP: A telomere-associated protein involved in telomere length control. Science, 2017, 355, 638-641.	6.0	136
22	The Telomere Deprotection Response Is Functionally Distinct from the Genomic DNA Damage Response. Molecular Cell, 2013, 51, 141-155.	4.5	133
23	C. elegans Telomeres Contain G-Strand and C-Strand Overhangs that Are Bound by Distinct Proteins. Cell, 2008, 132, 745-757.	13.5	121
24	Cell death during crisis is mediated by mitotic telomere deprotection. Nature, 2015, 522, 492-496.	13.7	97
25	The great unravelling: chromatin as a modulator of the aging process. Trends in Biochemical Sciences, 2012, 37, 466-476.	3.7	95
26	Patterns of dna amplification at band q13 of chromosome 11 in human breast cancer. Genes Chromosomes and Cancer, 1994, 9, 42-48.	1.5	85
27	A balance between elongation and trimming regulates telomere stability in stem cells. Nature Structural and Molecular Biology, 2017, 24, 30-39.	3.6	84
28	Telomere repeat binding factors: keeping the ends in check. Cancer Letters, 2003, 194, 189-197.	3.2	82
29	Mammalian 5â€² C-Rich Telomeric Overhangs Are a Mark of Recombination-Dependent Telomere Maintenance. Molecular Cell, 2011, 42, 224-236.	4.5	76
30	A three-state model of telomere control over human proliferative boundaries. Current Opinion in Cell Biology, 2012, 24, 731-738.	2.6	75
31	HSP70 Overexpression Mediates the Escape of a Doxorubicin-Induced G2 Cell Cycle Arrest. Biochemical and Biophysical Research Communications, 1996, 220, 153-159.	1.0	70
32	The Adenovirus E1b55K/E4orf6 Complex Induces Degradation of the Bloom Helicase during Infection. Journal of Virology, 2011, 85, 1887-1892.	1.5	66
33	Uncoupling of Longevity and Telomere Length in C. elegans. PLoS Genetics, 2005, 1, e30.	1.5	55
34	Telomeric armor: the layers of end protection. Journal of Cell Science, 2009, 122, 4013-4025.	1.2	46
35	A genomics approach identifies senescenceâ€specific gene expression regulation. Aging Cell, 2014, 13, 946-950.	3.0	42
36	Replication stress induces mitotic death through parallel pathways regulated by WAPL and telomere deprotection. Nature Communications, 2019, 10, 4224.	5.8	38

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37	Impact papers on aging in 2009. Aging, 2010, 2, 111-121.	1.4	35
38	Î±-Melanocyte Stimulating Hormone Downregulates Differentiation-Driven Heat Shock Protein 70 Expression in Keratinocytes. Journal of Investigative Dermatology, 1997, 108, 401-405.	0.3	30
39	Telomeres and Cancer: Resolving the Paradox. Annual Review of Cancer Biology, 2021, 5, 59-77.	2.3	30
40	Carboxy-terminal Residues of Mouse Thymidine Kinase are Essential for Rapid Degradation in Quiescent Cells. Journal of Molecular Biology, 1996, 259, 383-392.	2.0	28
41	Organismal propagation in the absence of a functional telomerase pathway inCaenorhabditis elegans. EMBO Journal, 2012, 31, 2024-2033.	3.5	23
42	5â€² C-rich telomeric overhangs are an outcome of rapid telomere truncation events. DNA Repair, 2013, 12, 238-245.	1.3	22
43	Mammalian Rap1 widens its impact. Nature Cell Biology, 2010, 12, 733-735.	4.6	21
44	In the End, its all Structure. Current Molecular Medicine, 2005, 5, 135-143.	0.6	14
45	A siRNA-Based Screen for Genes Involved in Chromosome End Protection. PLoS ONE, 2011, 6, e21407.	1.1	12
46	C. eleganssurvivors without telomerase. Worm, 2013, 2, e21073.	1.0	9
47	ALT Telomeres Borrow from Meiosis to Get Moving. Cell, 2014, 159, 11-12.	13.5	9
48	Telomeric proteins: clearing the way for the replication fork. Nature Structural and Molecular Biology, 2006, 13, 386-387.	3.6	8
49	Chromosome end protection becomes even more complex. Nature Structural and Molecular Biology, 2009, 16, 1205-1206.	3.6	8
50	A stem cell reporter based platform to identify and target drug resistant stem cells in myeloid leukemia. Nature Communications, 2020, 11, 5998.	5.8	8
51	Moderate expression of TRF2 in the hematopoietic system increases development of large cell blastic T-cell lymphomas. Aging, 2009, 1, 122-130.	1.4	8
52	Suppression of genomic instability by replicative senescence and crisis. Genome Instability & Disease, 2020, 1, 143-150.	0.5	1
53	Modern genome editing meets telomeres: the many functions of TPP1. Genes and Development, 2014, 28, 1857-1858.	2.7	0
54	Cellular versus Organismal Aging. , 2008, , 3-22.		0

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55	TRF2 regulates differential DNA damage response signaling from intermediateâ€state and uncappedâ€state telomeres. FASEB Journal, 2012, 26, 933.2.	0.2	0