

# Carol W Greider

## List of Publications by Year in descending order

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88  
papers

31,704  
citations

26630

56  
h-index

51608

86  
g-index

97  
all docs

97  
docs citations

97  
times ranked

17080  
citing authors

#	ARTICLE	IF	CITATIONS
1	Telomeres shorten during ageing of human fibroblasts. <i>Nature</i> , 1990, 345, 458-460.	27.8	5,173
2	Identification of a specific telomere terminal transferase activity in tetrahymena extracts. <i>Cell</i> , 1985, 43, 405-413.	28.9	2,998
3	The RNA Component of Human Telomerase. <i>Science</i> , 1995, 269, 1236-1241.	12.6	2,107
4	Telomere Shortening and Tumor Formation by Mouse Cells Lacking Telomerase RNA. <i>Cell</i> , 1997, 91, 25-34.	28.9	1,988
5	A telomeric sequence in the RNA of Tetrahymena telomerase required for telomere repeat synthesis. <i>Nature</i> , 1989, 337, 331-337.	27.8	1,504
6	Longevity, Stress Response, and Cancer in Aging Telomerase-Deficient Mice. <i>Cell</i> , 1999, 96, 701-712.	28.9	1,294
7	Essential role of mouse telomerase in highly proliferative organs. <i>Nature</i> , 1998, 392, 569-574.	27.8	1,195
8	Telomerase Mutations in Families with Idiopathic Pulmonary Fibrosis. <i>New England Journal of Medicine</i> , 2007, 356, 1317-1326.	27.0	1,175
9	The telomere terminal transferase of tetrahymena is a ribonucleoprotein enzyme with two kinds of primer specificity. <i>Cell</i> , 1987, 51, 887-898.	28.9	1,048
10	The Shortest Telomere, Not Average Telomere Length, Is Critical for Cell Viability and Chromosome Stability. <i>Cell</i> , 2001, 107, 67-77.	28.9	1,030
11	Telomere end-replication problem and cell aging. <i>Journal of Molecular Biology</i> , 1992, 225, 951-960.	4.2	975
12	Telomere Length Regulation. <i>Annual Review of Biochemistry</i> , 1996, 65, 337-365.	11.1	955
13	p53 Deficiency Rescues the Adverse Effects of Telomere Loss and Cooperates with Telomere Dysfunction to Accelerate Carcinogenesis. <i>Cell</i> , 1999, 97, 527-538.	28.9	926
14	Telomeres and telomerase: the path from maize, Tetrahymena and yeast to human cancer and aging. <i>Nature Medicine</i> , 2006, 12, 1133-1138.	30.7	824
15	Secondary Structure of Vertebrate Telomerase RNA. <i>Cell</i> , 2000, 100, 503-514.	28.9	547
16	Haploinsufficiency of telomerase reverse transcriptase leads to anticipation in autosomal dominant dyskeratosis congenita. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 15960-15964.	7.1	423
17	Short Dysfunctional Telomeres Impair Tumorigenesis in the INK4a <sup>+/2/3</sup> Cancer-Prone Mouse. <i>Cell</i> , 1999, 97, 515-525.	28.9	365
18	RAD50 and RAD51 Define Two Pathways That Collaborate to Maintain Telomeres in the Absence of Telomerase. <i>Genetics</i> , 1999, 152, 143-152.	2.9	364

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19	Telomere Dysfunction Increases Mutation Rate and Genomic Instability. <i>Cell</i> , 2001, 106, 275-286.	28.9	348
20	Differential regulation of telomerase activity and telomerase RNA during multi-stage tumorigenesis. <i>Nature Genetics</i> , 1996, 12, 200-204.	21.4	281
21	Short Telomeres Limit Tumor Progression In Vivo by Inducing Senescence. <i>Cancer Cell</i> , 2007, 11, 461-469.	16.8	270
22	Short Telomeres, even in the Presence of Telomerase, Limit Tissue Renewal Capacity. <i>Cell</i> , 2005, 123, 1121-1131.	28.9	264
23	Telomeres, Telomerase and Cancer. <i>Scientific American</i> , 1996, 274, 92-97.	1.0	260
24	Purification of tetrahymena telomerase and cloning of genes encoding the two protein components of the enzyme. <i>Cell</i> , 1995, 81, 677-686.	28.9	257
25	Telomeres, telomerase and senescence. <i>BioEssays</i> , 1990, 12, 363-369.	2.5	254
26	Two Survivor Pathways That Allow Growth in the Absence of Telomerase Are Generated by Distinct Telomere Recombination Events. <i>Molecular and Cellular Biology</i> , 2001, 21, 1819-1827.	2.3	250
27	Telomeres Do D-Loop→T-Loop. <i>Cell</i> , 1999, 97, 419-422.	28.9	226
28	Balancing instability: dual roles for telomerase and telomere dysfunction in tumorigenesis. <i>Oncogene</i> , 2002, 21, 619-626.	5.9	221
29	Short Telomeres are Sufficient to Cause the Degenerative Defects Associated with Aging. <i>American Journal of Human Genetics</i> , 2009, 85, 823-832.	6.2	216
30	Telomere dysfunction and the initiation of genome instability. <i>Nature Reviews Cancer</i> , 2003, 3, 623-627.	28.4	192
31	Recognition and elongation of telomeres by telomerase. <i>Genome</i> , 1989, 31, 553-560.	2.0	190
32	Diagnostic utility of telomere length testing in a hospital-based setting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2358-E2365.	7.1	165
33	Telomeres and senescence: The history, the experiment, the future. <i>Current Biology</i> , 1998, 8, R178-R181.	3.9	163
34	Short Telomeres Induce a DNA Damage Response in <i>Saccharomyces cerevisiae</i> . <i>Molecular Biology of the Cell</i> , 2003, 14, 987-1001.	2.1	163
35	Mammalian telomere dynamics: healing, fragmentation shortening and stabilization. <i>Current Opinion in Genetics and Development</i> , 1994, 4, 203-211.	3.3	157
36	Telomere Dysfunction Triggers Developmentally Regulated Germ Cell Apoptosis. <i>Molecular Biology of the Cell</i> , 2001, 12, 2023-2030.	2.1	153

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37	Template boundary definition in mammalian telomerase. <i>Genes and Development</i> , 2003, 17, 2747-2752.	5.9	139
38	A critical stem-loop structure in the CR4-CR5 domain of mammalian telomerase RNA. <i>Nucleic Acids Research</i> , 2002, 30, 592-597.	14.5	137
39	Telomerase RNA structure and function: implications for dyskeratosis congenita. <i>Trends in Biochemical Sciences</i> , 2004, 29, 183-192.	7.5	129
40	Identification of Two RNA-binding Proteins Associated with Human Telomerase RNA. <i>Molecular Biology of the Cell</i> , 2000, 11, 999-1010.	2.1	123
41	Functional analysis of the pseudoknot structure in human telomerase RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8080-8085.	7.1	120
42	Preprints for the life sciences. <i>Science</i> , 2016, 352, 899-901.	12.6	119
43	Phenotypes in <i>mTERT</i> <sup>+/Δ</sup> and <i>mTERT</i> <sup>Δ/Δ</sup> Mice Are Due to Short Telomeres, Not Telomere-Independent Functions of Telomerase Reverse Transcriptase. <i>Molecular and Cellular Biology</i> , 2011, 31, 2369-2379.	2.3	117
44	Determinants in mammalian telomerase RNA that mediate enzyme processivity and cross-species incompatibility. <i>EMBO Journal</i> , 2003, 22, 304-314.	7.8	116
45	Telomeres. <i>Current Opinion in Cell Biology</i> , 1991, 3, 444-451.	5.4	102
46	Haploinsufficiency of mTR results in defects in telomere elongation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3591-3596.	7.1	98
47	Recombination in telomere-length maintenance. <i>Trends in Biochemical Sciences</i> , 2000, 25, 200-204.	7.5	95
48	Telomerase activation: one step on the road to cancer?. <i>Trends in Genetics</i> , 1999, 15, 109-112.	6.7	91
49	End Resection Initiates Genomic Instability in the Absence of Telomerase. <i>Molecular and Cellular Biology</i> , 2003, 23, 8450-8461.	2.3	91
50	Regulation of Telomere Elongation by the Cyclin-Dependent Kinase CDK1. <i>Molecular Cell</i> , 2006, 24, 423-432.	9.7	90
51	An emerging consensus for telomerase RNA structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 14683-14684.	7.1	89
52	Chromosome first aid. <i>Cell</i> , 1991, 67, 645-647.	28.9	87
53	Short Telomeres Initiate Telomere Recombination in Primary and Tumor Cells. <i>PLoS Genetics</i> , 2009, 5, e1000357.	3.5	68
54	Stem-Loop IV of Tetrahymena Telomerase RNA Stimulates Processivity in trans. <i>Molecular and Cellular Biology</i> , 2003, 23, 5606-5613.	2.3	66

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55	Regulating telomere length from the inside out: the replication fork model. <i>Genes and Development</i> , 2016, 30, 1483-1491.	5.9	66
56	Phosphorylation of H2AX at Short Telomeres in T Cells and Fibroblasts. <i>Journal of Biological Chemistry</i> , 2004, 279, 45148-45154.	3.4	65
57	Telomerase Activity in Human Gliomas. <i>Neurosurgery</i> , 1998, 42, 1120-1124.	1.1	62
58	Short telomeres and ataxia-telangiectasia mutated deficiency cooperatively increase telomere dysfunction and suppress tumorigenesis. <i>Cancer Research</i> , 2003, 63, 8188-96.	0.9	56
59	Increasing gender diversity in the STEM research workforce. <i>Science</i> , 2019, 366, 692-695.	12.6	52
60	Mutational analysis of the Tetrahymena telomerase RNA: identification of residues affecting telomerase activity in vitro. <i>Nucleic Acids Research</i> , 1998, 26, 787-795.	14.5	46
61	Tracking telomerase. <i>Cell</i> , 2004, 116, S83-S87.	28.9	40
62	Comparing effects of mTR and mTERT deletion on gene expression and DNA damage response: a critical examination of telomere length maintenance-independent roles of telomerase. <i>Nucleic Acids Research</i> , 2010, 38, 60-71.	14.5	36
63	TIN2 Functions with TPP1/POT1 To Stimulate Telomerase Processivity. <i>Molecular and Cellular Biology</i> , 2019, 39, .	2.3	36
64	Telomerase Discovery: The Excitement of Putting Together Pieces of the Puzzle (Nobel Lecture). <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7422-7439.	13.8	34
65	BRD4 inhibitors block telomere elongation. <i>Nucleic Acids Research</i> , 2017, 45, 8403-8410.	14.5	33
66	Gel Shift and UV Cross-linking Analysis of Tetrahymena Telomerase. <i>Journal of Biological Chemistry</i> , 1995, 270, 8893-8901.	3.4	32
67	Wnt Regulates TERT "Putting the Horse Before the Cart. <i>Science</i> , 2012, 336, 1519-1520.	12.6	31
68	Treating Myeloproliferation " On Target or Off?. <i>New England Journal of Medicine</i> , 2015, 373, 965-966.	27.0	29
69	Telomere fusion to chromosome breaks reduces oncogenic translocations and tumour formation. <i>Nature Cell Biology</i> , 2005, 7, 706-711.	10.3	28
70	Kinase-Independent Functions of TEL1 in Telomere Maintenance. <i>Molecular and Cellular Biology</i> , 2009, 29, 5193-5202.	2.3	27
71	Extreme Telomere Length Dimorphism in the Tasmanian Devil and Related Marsupials Suggests Parental Control of Telomere Length. <i>PLoS ONE</i> , 2012, 7, e46195.	2.5	27
72	Chromosome-specific telomere lengths and the minimal functional telomere revealed by nanopore sequencing. <i>Genome Research</i> , 2022, 32, 616-628.	5.5	25

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73	Tetrahymena Telomerase RNA levels increase during macronuclear development. <i>Genesis</i> , 1992, 13, 80-86.	2.1	24
74	Ataxia telangiectasia mutated (Atm) is not required for telomerase-mediated elongation of short telomeres. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2249-2251.	7.1	21
75	Regulation of Telomere Length Requires a Conserved N-Terminal Domain of Rif2 in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2015, 201, 573-586.	2.9	21
76	Autoantibodies targeting telomere-associated proteins in systemic sclerosis. <i>Annals of the Rheumatic Diseases</i> , 2021, 80, 912-919.	0.9	19
77	Mouse Models for the Study of Telomerase. <i>Novartis Foundation Symposium</i> , 1997, 211, 160-176.	1.1	19
78	Tel1 Activation by the MRX Complex Is Sufficient for Telomere Length Regulation but Not for the DNA Damage Response in <i>Saccharomyces cerevisiae</i> . <i>Genetics</i> , 2019, 213, 1271-1288.	2.9	16
79	The role of Rif1 in telomere length regulation is separable from its role in origin firing. <i>ELife</i> , 2020, 9, .	6.0	16
80	Genomic instability in both wild-type and telomerase null MEFs. <i>Chromosoma</i> , 2004, 113, 62-8.	2.2	9
81	Rif1 regulates telomere length through conserved HEAT repeats. <i>Nucleic Acids Research</i> , 2021, 49, 3967-3980.	14.5	9
82	Telomere chromatin and gene expression. <i>Current Biology</i> , 1992, 2, 62-64.	3.9	7
83	Not just Salk. <i>Science</i> , 2017, 357, 1105-1106.	12.6	4
84	Balancing instability: dual roles for telomerase and telomere dysfunction in tumorigenesis. , 0, .		4
85	The Bur1 cyclin-dependent kinase regulates telomere length in <i>Saccharomyces cerevisiae</i> . <i>Yeast</i> , 2022, 39, 177-192.	1.7	4
86	Die Entdeckung der Telomerase: vom Vergnügen, Teile des Puzzles zusammenzufügen (Nobelaufsatz). <i>Angewandte Chemie</i> , 2010, 122, 7582-7601.	2.0	1
87	A sequence-dependent exonuclease activity from <i>Tetrahymena thermophila</i> . <i>BMC Biochemistry</i> , 2010, 11, 45.	4.4	1
88	Subtelomere recombination is frequent in tumors lacking telomerase. <i>FASEB Journal</i> , 2012, 26, 933.4.	0.5	0