

Stephen J Elledge

List of Publications by Citations

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121
papers

24,853
citations

55
h-index

140
g-index

140
ext. papers

29,173
ext. citations

22.1
avg, IF

7
L-index

#	Paper	IF	Citations
121	The DNA damage response: making it safe to play with knives. <i>Molecular Cell</i> , 2010 , 40, 179-204	17.6	2828
120	The DNA damage response: putting checkpoints in perspective. <i>Nature</i> , 2000 , 408, 433-9	50.4	2610
119	ATM and ATR substrate analysis reveals extensive protein networks responsive to DNA damage. <i>Science</i> , 2007 , 316, 1160-6	33.3	2303
118	Conservation of the Chk1 checkpoint pathway in mammals: linkage of DNA damage to Cdk regulation through Cdc25. <i>Science</i> , 1997 , 277, 1497-501	33.3	1096
117	The IFITM proteins mediate cellular resistance to influenza A H1N1 virus, West Nile virus, and dengue virus. <i>Cell</i> , 2009 , 139, 1243-54	56.2	921
116	Requirement of ATM-dependent phosphorylation of brca1 in the DNA damage response to double-strand breaks. <i>Science</i> , 1999 , 286, 1162-6	33.3	848
115	Altered cell differentiation and proliferation in mice lacking p57KIP2 indicates a role in Beckwith-Wiedemann syndrome. <i>Nature</i> , 1997 , 387, 151-8	50.4	672
114	Phosphorylation-dependent ubiquitination of cyclin E by the SCFFbw7 ubiquitin ligase. <i>Science</i> , 2001 , 294, 173-7	33.3	650
113	Meta- and Orthogonal Integration of Influenza "OMICs" Data Defines a Role for UBR4 in Virus Budding. <i>Cell Host and Microbe</i> , 2015 , 18, 723-35	23.4	647
112	Cyclin D2 is an FSH-responsive gene involved in gonadal cell proliferation and oncogenesis. <i>Nature</i> , 1996 , 384, 470-4	50.4	611
111	Tumor aneuploidy correlates with markers of immune evasion and with reduced response to immunotherapy. <i>Science</i> , 2017 , 355,	33.3	609
110	Identification of the FANCI protein, a monoubiquitinated FANCD2 paralog required for DNA repair. <i>Cell</i> , 2007 , 129, 289-301	56.2	543
109	Second-generation shRNA libraries covering the mouse and human genomes. <i>Nature Genetics</i> , 2005 , 37, 1281-8	36.3	522
108	The DNA damage response induces inflammation and senescence by inhibiting autophagy of GATA4. <i>Science</i> , 2015 , 349, aaa5612	33.3	478
107	Cumulative haploinsufficiency and triplosensitivity drive aneuploidy patterns and shape the cancer genome. <i>Cell</i> , 2013 , 155, 948-62	56.2	478
106	Control of the DNA damage checkpoint by chk1 and rad53 protein kinases through distinct mechanisms. <i>Science</i> , 1999 , 286, 1166-71	33.3	466
105	Homologous-recombination-deficient tumours are dependent on Pol β -mediated repair. <i>Nature</i> , 2015 , 518, 258-62	50.4	451

104	The pINDUCER lentiviral toolkit for inducible RNA interference in vitro and in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 3665-70	11.5	435
103	Mrc1 transduces signals of DNA replication stress to activate Rad53. <i>Nature Cell Biology</i> , 2001 , 3, 958-65	23.4	419
102	Reconstitution of G1 cyclin ubiquitination with complexes containing SCFGrr1 and Rbx1. <i>Science</i> , 1999 , 284, 662-5	33.3	345
101	Mutations in TGIF cause holoprosencephaly and link NODAL signalling to human neural axis determination. <i>Nature Genetics</i> , 2000 , 25, 205-8	36.3	337
100	Transcriptional regulation and function during the human cell cycle. <i>Nature Genetics</i> , 2001 , 27, 48-54	36.3	330
99	Cancer proliferation gene discovery through functional genomics. <i>Science</i> , 2008 , 319, 620-4	33.3	323
98	Global identification of modular cullin-RING ligase substrates. <i>Cell</i> , 2011 , 147, 459-74	56.2	321
97	Global protein stability profiling in mammalian cells. <i>Science</i> , 2008 , 322, 918-23	33.3	318
96	A SUMOylation-dependent transcriptional subprogram is required for Myc-driven tumorigenesis. <i>Science</i> , 2012 , 335, 348-53	33.3	315
95	Viral epitope profiling of COVID-19 patients reveals cross-reactivity and correlates of severity. <i>Science</i> , 2020 , 370,	33.3	289
94	A role for the deubiquitinating enzyme USP28 in control of the DNA-damage response. <i>Cell</i> , 2006 , 126, 529-42	56.2	250
93	Origins of lymphatic and distant metastases in human colorectal cancer. <i>Science</i> , 2017 , 357, 55-60	33.3	239
92	Viral immunology. Comprehensive serological profiling of human populations using a synthetic human virome. <i>Science</i> , 2015 , 348, aaa0698	33.3	231
91	Quantitative Proteomic Atlas of Ubiquitination and Acetylation in the DNA Damage Response. <i>Molecular Cell</i> , 2015 , 59, 867-81	17.6	206
90	DNA damage and cell cycle regulation of ribonucleotide reductase. <i>BioEssays</i> , 1993 , 15, 333-9	4.1	205
89	FANCI phosphorylation functions as a molecular switch to turn on the Fanconi anemia pathway. <i>Nature Structural and Molecular Biology</i> , 2008 , 15, 1138-46	17.6	183
88	Autoantigen discovery with a synthetic human peptidome. <i>Nature Biotechnology</i> , 2011 , 29, 535-41	44.5	172
87	Measles virus infection diminishes preexisting antibodies that offer protection from other pathogens. <i>Science</i> , 2019 , 366, 599-606	33.3	149

86	Recurrent hemizygous deletions in cancers may optimize proliferative potential. <i>Science</i> , 2012 , 337, 104-9.	33.3	148
85	Identification of SCF ubiquitin ligase substrates by global protein stability profiling. <i>Science</i> , 2008 , 322, 923-9	33.3	147
84	Longitudinal analysis reveals high prevalence of Epstein-Barr virus associated with multiple sclerosis.. <i>Science</i> , 2022 , 375, 296-301	33.3	124
83	How autophagy both activates and inhibits cellular senescence. <i>Autophagy</i> , 2016 , 12, 898-9	10.2	113
82	Design of 240,000 orthogonal 25mer DNA barcode probes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 2289-94	11.5	101
81	A Systematic Analysis of Factors Localized to Damaged Chromatin Reveals PARP-Dependent Recruitment of Transcription Factors. <i>Cell Reports</i> , 2015 , 11, 1486-500	10.6	100
80	The Eukaryotic Proteome Is Shaped by E3 Ubiquitin Ligases Targeting C-Terminal Degrons. <i>Cell</i> , 2018 , 173, 1622-1635.e14	56.2	90
79	Profound Tissue Specificity in Proliferation Control Underlies Cancer Drivers and Aneuploidy Patterns. <i>Cell</i> , 2018 , 173, 499-514.e23	56.2	83
78	Genetic Screens Reveal FEN1 and APEX2 as BRCA2 Synthetic Lethal Targets. <i>Molecular Cell</i> , 2019 , 73, 885-899.e6	17.6	80
77	T-Scan: A Genome-wide Method for the Systematic Discovery of T Cell Epitopes. <i>Cell</i> , 2019 , 178, 1016-1030.e13	38.2	78
76	Amphotericin B increases influenza A virus infection by preventing IFITM3-mediated restriction. <i>Cell Reports</i> , 2013 , 5, 895-908	10.6	78
75	Tissue-specificity in cancer: The rule, not the exception. <i>Science</i> , 2019 , 363, 1150-1151	33.3	76
74	RFWD3-Dependent Ubiquitination of RPA Regulates Repair at Stalled Replication Forks. <i>Molecular Cell</i> , 2015 , 60, 280-93	17.6	68
73	Stopped for repairs. <i>BioEssays</i> , 1995 , 17, 545-8	4.1	68
72	Treacher Collins syndrome TCOF1 protein cooperates with NBS1 in the DNA damage response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18631-6	11.5	64
71	A glycine-specific N-degron pathway mediates the quality control of protein -myristoylation. <i>Science</i> , 2019 , 365,	33.3	62
70	Human CPR (cell cycle progression restoration) genes impart a Far- phenotype on yeast cells. <i>Genetics</i> , 1997 , 147, 1063-76	4	60
69	C-Terminal End-Directed Protein Elimination by CRL2 Ubiquitin Ligases. <i>Molecular Cell</i> , 2018 , 70, 602-613.e7	17.6	59

68	Nudt21 Controls Cell Fate by Connecting Alternative Polyadenylation to Chromatin Signaling. <i>Cell</i> , 2018 , 172, 106-120.e21	56.2	55
67	The primary mechanism of cytotoxicity of the chemotherapeutic agent CX-5461 is topoisomerase II poisoning. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 4053-4060	11.5	50
66	Systematic autoantigen analysis identifies a distinct subtype of scleroderma with coincident cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E7526-E7534	11.5	48
65	DNA repair. Mechanism of DNA interstrand cross-link processing by repair nuclease FAN1. <i>Science</i> , 2014 , 346, 1127-30	33.3	46
64	A Role for Mitochondrial Translation in Promotion of Viability in K-Ras Mutant Cells. <i>Cell Reports</i> , 2017 , 20, 427-438	10.6	45
63	Protein interaction discovery using parallel analysis of translated ORFs (PLATO). <i>Nature Biotechnology</i> , 2013 , 31, 331-334	44.5	43
62	Sources of Error in Mammalian Genetic Screens. <i>G3: Genes, Genomes, Genetics</i> , 2016 , 6, 2781-90	3.2	43
61	A genetic interaction analysis identifies cancer drivers that modify EGFR dependency. <i>Genes and Development</i> , 2017 , 31, 184-196	12.6	42
60	MAPK Pathway Suppression Unmasks Latent DNA Repair Defects and Confers a Chemical Synthetic Vulnerability in -, and -Mutant Melanomas. <i>Cancer Discovery</i> , 2019 , 9, 526-545	24.4	41
59	Comprehensive identification of host modulators of HIV-1 replication using multiple orthologous RNAi reagents. <i>Cell Reports</i> , 2014 , 9, 752-66	10.6	40
58	Brief Report: Anti-RNPC-3 Antibodies As a Marker of Cancer-Associated Scleroderma. <i>Arthritis and Rheumatology</i> , 2017 , 69, 1306-1312	9.5	38
57	Profiling DNA damage-induced phosphorylation in budding yeast reveals diverse signaling networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3667-75	11.5	37
56	Aneuploidy in Cancer: Seq-ing Answers to Old Questions. <i>Annual Review of Cancer Biology</i> , 2017 , 1, 335-354	15.5	36
55	A Serial shRNA Screen for Roadblocks to Reprogramming Identifies the Protein Modifier SUMO2. <i>Stem Cell Reports</i> , 2016 , 6, 704-716	8	35
54	FACT Proteins, SUPT16H and SSRP1, Are Transcriptional Suppressors of HIV-1 and HTLV-1 That Facilitate Viral Latency. <i>Journal of Biological Chemistry</i> , 2015 , 290, 27297-27310	5.4	34
53	Integrated proteogenetic analysis reveals the landscape of a mitochondrial-autophagosome synapse during PARK2-dependent mitophagy. <i>Science Advances</i> , 2019 , 5, eaay4624	14.3	34
52	A family of vectors that facilitate transposon and insertional mutagenesis of cloned genes in yeast. <i>Yeast</i> , 1994 , 10, 1267-72	3.4	32
51	Cloning of the complete coding region for human protein phosphatase inhibitor 2 using the two hybrid system and expression of inhibitor 2 in E. coli. <i>FEBS Letters</i> , 1994 , 340, 93-8	3.8	32

50	Antibody responses to endemic coronaviruses modulate COVID-19 convalescent plasma functionality 2020 ,		31
49	Chlamydia trachomatis-induced alterations in the host cell proteome are required for intracellular growth. <i>Cell Host and Microbe</i> , 2014 , 15, 113-24	23.4	29
48	Antibody responses to endemic coronaviruses modulate COVID-19 convalescent plasma functionality. <i>Journal of Clinical Investigation</i> , 2021 , 131,	15.9	29
47	Structural basis for antibody inhibition of flavivirus NS1-triggered endothelial dysfunction. <i>Science</i> , 2021 , 371, 194-200	33.3	28
46	Functional kinomics establishes a critical node of volume-sensitive cation-Cl cotransporter regulation in the mammalian brain. <i>Scientific Reports</i> , 2016 , 6, 35986	4.9	27
45	Genetic modifiers of the BRD4-NUT dependency of NUT midline carcinoma uncovers a synergism between BETs and CDK4/6is. <i>Genes and Development</i> , 2018 , 32, 1188-1200	12.6	27
44	A Deregulated HOX Gene Axis Confers an Epigenetic Vulnerability in KRAS-Mutant Lung Cancers. <i>Cancer Cell</i> , 2020 , 37, 705-719.e6	24.3	21
43	A Druggable Genome Screen Identifies Modifiers of β Synuclein Levels via a Tiered Cross-Species Validation Approach. <i>Journal of Neuroscience</i> , 2018 , 38, 9286-9301	6.6	21
42	PAT1, an evolutionarily conserved acetyltransferase homologue, is required for multiple steps in the cell cycle. <i>Genes To Cells</i> , 1996 , 1, 923-42	2.3	20
41	RNAi-based functional selection identifies novel cell migration determinants dependent on PI3K and AKT pathways. <i>Nature Communications</i> , 2014 , 5, 5217	17.4	19
40	Ontogeny of recognition specificity and functionality for the broadly neutralizing anti-HIV antibody 4E10. <i>PLoS Pathogens</i> , 2014 , 10, e1004403	7.6	19
39	Genetic interrogation of replicative senescence uncovers a dual role for USP28 in coordinating the p53 and GATA4 branches of the senescence program. <i>Genes and Development</i> , 2017 , 31, 1933-1938	12.6	18
38	A gain-of-function senescence bypass screen identifies the homeobox transcription factor DLX2 as a regulator of ATM-p53 signaling. <i>Genes and Development</i> , 2016 , 30, 293-306	12.6	18
37	The adaptive immune system is a major driver of selection for tumor suppressor gene inactivation. <i>Science</i> , 2021 , 373, 1327-1335	33.3	18
36	NatB domain-containing CRA-1 antagonizes hydrolase ACER-1 linking acetyl-CoA metabolism to the initiation of recombination during <i>C. elegans</i> meiosis. <i>PLoS Genetics</i> , 2015 , 11, e1005029	6	17
35	Natural selection contributed to immunological differences between hunter-gatherers and agriculturalists. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1253-1264	12.3	15
34	Discovery of protein interactions using parallel analysis of translated ORFs (PLATO). <i>Nature Protocols</i> , 2014 , 9, 90-103	18.8	15
33	CARM1 Inhibition Enables Immunotherapy of Resistant Tumors by Dual Action on Tumor Cells and T Cells. <i>Cancer Discovery</i> , 2021 , 11, 2050-2071	24.4	14

32	Troponin T is capable of binding dystrophin via a leucine zipper. <i>FEBS Letters</i> , 1994 , 354, 183-6	3.8	13
31	Identification of FUBP1 as a Long Tail Cancer Driver and Widespread Regulator of Tumor Suppressor and Oncogene Alternative Splicing. <i>Cell Reports</i> , 2019 , 28, 3435-3449.e5	10.6	12
30	Comprehensive Profiling of HIV Antibody Evolution. <i>Cell Reports</i> , 2019 , 27, 1422-1433.e4	10.6	12
29	Temporal virus serological profiling of kidney graft recipients using VirScan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 10899-10904	11.5	11
28	The DNA Damage Response--Self-awareness for DNA: The 2015 Albert Lasker Basic Medical Research Award. <i>JAMA - Journal of the American Medical Association</i> , 2015 , 314, 1111-2	27.4	11
27	Systematic characterization of mutations altering protein degradation in human cancers. <i>Molecular Cell</i> , 2021 , 81, 1292-1308.e11	17.6	11
26	Identification of S-phase DNA damage-response targets in fission yeast reveals conservation of damage-response networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E3676-85	11.5	10
25	Interspecies analysis of MYC targets identifies tRNA synthetases as mediators of growth and survival in MYC-overexpressing cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 14614-14619	11.5	10
24	Coordinate regulation of the senescent state by selective autophagy. <i>Developmental Cell</i> , 2021 , 56, 1512-1525.e7	11.5	10
23	Aneuploidy Police Detect Chromosomal Imbalance Triggering Immune Crackdown!. <i>Trends in Genetics</i> , 2017 , 33, 662-664	8.5	8
22	ORF10-Cullin-2-ZYG11B complex is not required for SARS-CoV-2 infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	8
21	An adjuvant strategy enabled by modulation of the physical properties of microbial ligands expands antigen immunogenicity.. <i>Cell</i> , 2022 , 185, 614-629.e21	56.2	7
20	Functional genomics reveals that tumors with activating phosphoinositide 3-kinase mutations are dependent on accelerated protein turnover. <i>Genes and Development</i> , 2016 , 30, 2684-2695	12.6	7
19	Robust dengue virus infection in bat cells and limited innate immune responses coupled with positive serology from bats in IndoMalaya and Australasia. <i>Cellular and Molecular Life Sciences</i> , 2020 , 77, 1607-1622	10.3	7
18	Comprehensive viromewide antibody responses by systematic epitope scanning after hematopoietic cell transplantation. <i>Blood</i> , 2019 , 134, 503-514	2.2	6
17	2.5 Million Person-Years of Life Have Been Lost Due to COVID-19 in the United States		5
16	Diversified Application of Barcoded PLATO (PLATO-BC) Platform for Identification of Protein Interactions. <i>Genomics, Proteomics and Bioinformatics</i> , 2019 , 17, 319-331	6.5	4
15	Empirical identification and validation of tumor-targeting T cell receptors from circulation using autologous pancreatic tumor organoids 2021 , 9,		4

14	High-Throughput Screening of Kawasaki Disease Sera for Antiviral Antibodies. <i>Journal of Infectious Diseases</i> , 2020 , 222, 1853-1857	7	3
13	Taking the brakes off telomerase. <i>ELife</i> , 2015 , 4,	8.9	3
12	High-resolution epitope mapping by AllerScan reveals relationships between IgE and IgG repertoires during peanut oral immunotherapy. <i>Cell Reports Medicine</i> , 2021 , 2, 100410	18	3
11	CRISPR-based peptide library display and programmable microarray self-assembly for rapid quantitative protein binding assays. <i>Molecular Cell</i> , 2021 , 81, 3650-3658.e5	17.6	3
10	Genetic analysis of cancer drivers reveals cohesin and CTCF as suppressors of PD-L1.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119,	11.5	2
9	When noise makes music: HIV reactivation with transcriptional noise enhancers. <i>Genome Medicine</i> , 2014 , 6, 55	14.4	1
8	Gain-of-function genetic screening identifies the antiviral function of TMEM120A via STING activation.. <i>Nature Communications</i> , 2022 , 13, 105	17.4	1
7	The Protexin complex counters resection on stalled forks to promote homologous recombination and crosslink repair. <i>Molecular Cell</i> , 2021 , 81, 4440-4456.e7	17.6	1
6	A GATA4-regulated secretory program suppresses tumors through recruitment of cytotoxic CD8 T cells.. <i>Nature Communications</i> , 2022 , 13, 256	17.4	0
5	Integrated loss- and gain-of-function screens define a core network governing human embryonic stem cell behavior. <i>Genes and Development</i> , 2021 , 35, 1527-1547	12.6	0
4	The uncharacterized SANT and BTB domain-containing protein SANBR inhibits class switch recombination. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100625	5.4	0
3	Reply. <i>Arthritis and Rheumatology</i> , 2017 , 69, 1915-1916	9.5	
2	Sequencer Hacking Unlocks Quantitative Protein Studies. <i>Molecular Cell</i> , 2019 , 73, 863-865	17.6	
1	Checkpoint signaling and protein degradation. <i>FASEB Journal</i> , 2007 , 21, A154	0.9	