

Lee Zou

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

97
papers

8,987
citations

41
h-index

94
g-index

139
ext. papers

11,095
ext. citations

15.2
avg, IF

6.68
L-index

#	Paper	IF	Citations
97	Sensing DNA damage through ATRIP recognition of RPA-ssDNA complexes. <i>Science</i> , 2003 , 300, 1542-8	33.3	2041
96	DNA damage sensing by the ATM and ATR kinases. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013 , 5,	10.2	739
95	RNA mA methylation regulates the ultraviolet-induced DNA damage response. <i>Nature</i> , 2017 , 543, 573-576	36.4	449
94	Regulation of ATR substrate selection by Rad17-dependent loading of Rad9 complexes onto chromatin. <i>Genes and Development</i> , 2002 , 16, 198-208	12.6	394
93	Replication protein A-mediated recruitment and activation of Rad17 complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 13827-32	11.5	348
92	Alternative lengthening of telomeres renders cancer cells hypersensitive to ATR inhibitors. <i>Science</i> , 2015 , 347, 273-7	33.3	294
91	Single-stranded DNA orchestrates an ATM-to-ATR switch at DNA breaks. <i>Molecular Cell</i> , 2009 , 33, 547-551	17.6	273
90	TERRA and hnRNPA1 orchestrate an RPA-to-POT1 switch on telomeric single-stranded DNA. <i>Nature</i> , 2011 , 471, 532-6	50.4	250
89	RPA-coated single-stranded DNA as a platform for post-translational modifications in the DNA damage response. <i>Cell Research</i> , 2015 , 25, 9-23	24.7	220
88	ATR: a master conductor of cellular responses to DNA replication stress. <i>Trends in Biochemical Sciences</i> , 2011 , 36, 133-40	10.3	212
87	ATR inhibition disrupts rewired homologous recombination and fork protection pathways in PARP inhibitor-resistant BRCA-deficient cancer cells. <i>Genes and Development</i> , 2017 , 31, 318-332	12.6	205
86	MRE11 and EXO1 nucleases degrade reversed forks and elicit MUS81-dependent fork rescue in BRCA2-deficient cells. <i>Nature Communications</i> , 2017 , 8, 860	17.4	194
85	Distinct but Concerted Roles of ATR, DNA-PK, and Chk1 in Countering Replication Stress during SPhase. <i>Molecular Cell</i> , 2015 , 59, 1011-24	17.6	189
84	ATR autophosphorylation as a molecular switch for checkpoint activation. <i>Molecular Cell</i> , 2011 , 43, 192-202	17.6	177
83	PRP19 transforms into a sensor of RPA-ssDNA after DNA damage and drives ATR activation via a ubiquitin-mediated circuitry. <i>Molecular Cell</i> , 2014 , 53, 235-246	17.6	161
82	Molecular Pathways: Targeting ATR in Cancer Therapy. <i>Clinical Cancer Research</i> , 2015 , 21, 4780-5	12.9	151
81	A mitosis-specific and R loop-driven ATR pathway promotes faithful chromosome segregation. <i>Science</i> , 2018 , 359, 108-114	33.3	138

80	Oligonucleotide/oligosaccharide-binding fold proteins: a growing family of genome guardians. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2010 , 45, 266-75	8.7	131
79	Functions of Replication Protein A as a Sensor of R Loops and a Regulator of RNaseH1. <i>Molecular Cell</i> , 2017 , 65, 832-847.e4	17.6	128
78	Passenger hotspot mutations in cancer driven by APOBEC3A and mesoscale genomic features. <i>Science</i> , 2019 , 364,	33.3	121
77	Functions, Regulation, and Therapeutic Implications of the ATR Checkpoint Pathway. <i>Annual Review of Genetics</i> , 2016 , 50, 155-173	14.5	114
76	Alternative Lengthening of Telomeres through Two Distinct Break-Induced Replication Pathways. <i>Cell Reports</i> , 2019 , 26, 955-968.e3	10.6	111
75	Rad17 phosphorylation is required for claspin recruitment and Chk1 activation in response to replication stress. <i>Molecular Cell</i> , 2006 , 23, 331-41	17.6	109
74	The FANCM/FAAP24 complex is required for the DNA interstrand crosslink-induced checkpoint response. <i>Molecular Cell</i> , 2010 , 39, 259-68	17.6	101
73	Two distinct modes of ATR activation orchestrated by Rad17 and Nbs1. <i>Cell Reports</i> , 2013 , 3, 1651-62	10.6	100
72	Coupling of Homologous Recombination and the Checkpoint by ATR. <i>Molecular Cell</i> , 2017 , 65, 336-346	17.6	90
71	Single- and double-stranded DNA: building a trigger of ATR-mediated DNA damage response. <i>Genes and Development</i> , 2007 , 21, 879-85	12.6	90
70	Chk1 and Claspin potentiate PCNA ubiquitination. <i>Genes and Development</i> , 2008 , 22, 1147-52	12.6	89
69	ATRIP associates with replication protein A-coated ssDNA through multiple interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 580-5	11.5	79
68	ROS-induced R loops trigger a transcription-coupled but BRCA1/2-independent homologous recombination pathway through CSB. <i>Nature Communications</i> , 2018 , 9, 4115	17.4	68
67	Spliceosome Mutations Induce R Loop-Associated Sensitivity to ATR Inhibition in Myelodysplastic Syndromes. <i>Cancer Research</i> , 2018 , 78, 5363-5374	10.1	67
66	Noncovalent interactions with SUMO and ubiquitin orchestrate distinct functions of the SLX4 complex in genome maintenance. <i>Molecular Cell</i> , 2015 , 57, 108-22	17.6	59
65	APOBEC3A and APOBEC3B Activities Render Cancer Cells Susceptible to ATR Inhibition. <i>Cancer Research</i> , 2017 , 77, 4567-4578	10.1	58
64	Genomic Instability Is Induced by Persistent Proliferation of Cells Undergoing Epithelial-to-Mesenchymal Transition. <i>Cell Reports</i> , 2016 , 17, 2632-2647	10.6	58
63	Suppression of genome instability in pRB-deficient cells by enhancement of chromosome cohesion. <i>Molecular Cell</i> , 2014 , 53, 993-1004	17.6	56

62	ATR signaling at a glance. <i>Journal of Cell Science</i> , 2009 , 122, 301-4	5.3	51
61	Nek1 kinase associates with ATR-ATRIP and primes ATR for efficient DNA damage signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 2175-80	11.5	46
60	ATR Protects the Genome against R Loops through a MUS81-Triggered Feedback Loop. <i>Molecular Cell</i> , 2020 , 77, 514-527.e4	17.6	46
59	Analysis of DNA Damage Response Gene Alterations and Tumor Mutational Burden Across 17,486 Tubular Gastrointestinal Carcinomas: Implications for Therapy. <i>Oncologist</i> , 2019 , 24, 1340-1347	5.7	43
58	Myc targeted CDK18 promotes ATR and homologous recombination to mediate PARP inhibitor resistance in glioblastoma. <i>Nature Communications</i> , 2019 , 10, 2910	17.4	42
57	SUMOylation of ATRIP potentiates DNA damage signaling by boosting multiple protein interactions in the ATR pathway. <i>Genes and Development</i> , 2014 , 28, 1472-84	12.6	42
56	mC modification of mRNA serves a DNA damage code to promote homologous recombination. <i>Nature Communications</i> , 2020 , 11, 2834	17.4	40
55	Alternative lengthening of telomeres: from molecular mechanisms to therapeutic outlooks. <i>Cell and Bioscience</i> , 2020 , 10, 30	9.8	32
54	Quantification of ongoing APOBEC3A activity in tumor cells by monitoring RNA editing at hotspots. <i>Nature Communications</i> , 2020 , 11, 2971	17.4	29
53	The BRCA1-interacting protein Abraxas is required for genomic stability and tumor suppression. <i>Cell Reports</i> , 2014 , 8, 807-17	10.6	29
52	Dual functions of DNA replication forks in checkpoint signaling and PCNA ubiquitination. <i>Cell Cycle</i> , 2009 , 8, 191-4	4.7	29
51	An R-loop-initiated CSB-RAD52-POLD3 pathway suppresses ROS-induced telomeric DNA breaks. <i>Nucleic Acids Research</i> , 2020 , 48, 1285-1300	20.1	28
50	cGAS suppresses genomic instability as a decelerator of replication forks. <i>Science Advances</i> , 2020 , 6,	14.3	28
49	SCF(E3RCP) promotes cell growth by targeting PR-Set7/Set8 for degradation. <i>Nature Communications</i> , 2015 , 6, 10185	17.4	27
48	Potentiated DNA Damage Response in Circulating Breast Tumor Cells Confers Resistance to Chemotherapy. <i>Journal of Biological Chemistry</i> , 2015 , 290, 14811-25	5.4	24
47	Critical questions in ovarian cancer research and treatment: Report of an American Association for Cancer Research Special Conference. <i>Cancer</i> , 2019 , 125, 1963-1972	6.4	22
46	RNA transcripts stimulate homologous recombination by forming DR-loops. <i>Nature</i> , 2021 , 594, 283-288	50.4	21
45	CARM1 regulates replication fork speed and stress response by stimulating PARP1. <i>Molecular Cell</i> , 2021 , 81, 784-800.e8	17.6	21

44	RPA and POT1: friends or foes at telomeres?. <i>Cell Cycle</i> , 2012 , 11, 652-7	4.7	20
43	The SUMO (Small Ubiquitin-like Modifier) Ligase PIAS3 Primes ATR for Checkpoint Activation. <i>Journal of Biological Chemistry</i> , 2016 , 291, 279-90	5.4	17
42	Four pillars of the S-phase checkpoint. <i>Genes and Development</i> , 2013 , 27, 227-33	12.6	17
41	The conserved C terminus of Claspin interacts with Rad9 and promotes rapid activation of Chk1. <i>Cell Cycle</i> , 2012 , 11, 2711-6	4.7	17
40	A phosphorylation-and-ubiquitylation circuitry driving ATR activation and homologous recombination. <i>Nucleic Acids Research</i> , 2017 , 45, 8859-8872	20.1	16
39	The BRUCE-ATR Signaling Axis Is Required for Accurate DNA Replication and Suppression of Liver Cancer Development. <i>Hepatology</i> , 2019 , 69, 2608-2622	11.2	15
38	An extended APOBEC3A mutation signature in cancer. <i>Nature Communications</i> , 2021 , 12, 1602	17.4	15
37	Loss of Slug Compromises DNA Damage Repair and Accelerates Stem Cell Aging in Mammary Epithelium. <i>Cell Reports</i> , 2019 , 28, 394-407.e6	10.6	14
36	Temporally distinct post-replicative repair mechanisms fill PRIMPOL-dependent ssDNA gaps in human cells. <i>Molecular Cell</i> , 2021 , 81, 4026-4040.e8	17.6	14
35	Alternative lengthening of telomeres is a self-perpetuating process in ALT-associated PML bodies. <i>Molecular Cell</i> , 2021 , 81, 1027-1042.e4	17.6	14
34	BRG1 Loss Predisposes Lung Cancers to Replicative Stress and ATR Dependency. <i>Cancer Research</i> , 2020 , 80, 3841-3854	10.1	13
33	DNA Replication Checkpoint: New ATR Activator Identified. <i>Current Biology</i> , 2017 , 27, R33-R35	6.3	11
32	Localized protein biotinylation at DNA damage sites identifies ZPET, a repressor of homologous recombination. <i>Genes and Development</i> , 2019 , 33, 75-89	12.6	10
31	Prevalence and functional analysis of sequence variants in the ATR checkpoint mediator Claspin. <i>Molecular Cancer Research</i> , 2009 , 7, 1510-6	6.6	9
30	Synthetic lethality by targeting the RUVBL1/2-TTT complex in mTORC1-hyperactive cancer cells. <i>Science Advances</i> , 2020 , 6, eaay9131	14.3	9
29	Regulation of DNA break repair by transcription and RNA. <i>Science China Life Sciences</i> , 2017 , 60, 1081-1088	5	8
28	Identification of Somatic Acquired Mutations by cfDNA Analysis in Patients with Metastatic Breast Cancer. <i>Clinical Cancer Research</i> , 2020 , 26, 4852-4862	12.9	7
27	An extending ATR-CHK1 circuitry: the replication stress response and beyond. <i>Current Opinion in Genetics and Development</i> , 2021 , 71, 92-98	4.9	7

26	Sources, resolution and physiological relevance of R-loops and RNA-DNA hybrids.. <i>Nature Reviews Molecular Cell Biology</i> , 2022 ,	48.7	7
25	Inhibition of ATR-Chk1 signaling blocks DNA double-strand-break repair and induces cytoplasmic vacuolization in metastatic osteosarcoma. <i>Therapeutic Advances in Medical Oncology</i> , 2020 , 12, 1758835920956900	54.6	6
24	The cell cycle effects of PARP inhibitors underlie their selectivity toward BRCA1/2-deficient cells. <i>Genes and Development</i> , 2021 , 35, 1271-1289	12.6	6
23	Induction of BRCAness in Triple-Negative Breast Cancer by a CDK12/13 Inhibitor Improves Chemotherapy. <i>Cancer Cell</i> , 2019 , 36, 461-463	24.3	5
22	Targeting the DNA replication stress phenotype of KRAS mutant cancer cells. <i>Scientific Reports</i> , 2021 , 11, 3656	4.9	5
21	Checkpoint Mec-tivation comes in many flavors. <i>Molecular Cell</i> , 2009 , 36, 734-5	17.6	4
20	BRCA2 associates with MCM10 to suppress PRIMPOL-mediated repriming and single-stranded gap formation after DNA damage. <i>Nature Communications</i> , 2021 , 12, 5966	17.4	4
19	A human cell extract-based assay for the activation of ATM and ATR checkpoint kinases. <i>Methods in Molecular Biology</i> , 2011 , 782, 181-91	1.4	4
18	APOBEC3A drives acquired resistance to targeted therapies in non-small cell lung cancer		4
17	NR4A1 regulates expression of immediate early genes, suppressing replication stress in cancer. <i>Molecular Cell</i> , 2021 , 81, 4041-4058.e15	17.6	3
16	Co-regulation and function of / bidirectional genes in cancer. <i>ELife</i> , 2021 , 10,	8.9	3
15	Calcium Influx Guards Replication Forks against Exonuclease 1. <i>Molecular Cell</i> , 2019 , 74, 1103-1105	17.6	2
14	Ataxia Telangiectasia-Mutated and Rad3-Related Inhibition and Topoisomerase I Trapping Create a Synthetic Lethality in Cancer Cells. <i>Journal of Clinical Oncology</i> , 2018 , 36, 1628-1630	2.2	2
13	Impacts of chromatin dynamics and compartmentalization on DNA repair. <i>DNA Repair</i> , 2021 , 105, 103162.3	4.3	2
12	FMRP promotes transcription-coupled homologous recombination via facilitating TET1-mediated m5C RNA modification demethylation.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2116251119	11.5	2
11	DNA repair defects in cancer and therapeutic opportunities.. <i>Genes and Development</i> , 2022 , 36, 278-293	12.6	2
10	A genome-wide and cotranscriptional suppressor of R loops. <i>Genes and Development</i> , 2020 , 34, 863-864	12.6	1
9	Sensing of DNA breaks by the ATM and ATR checkpoint kinases. <i>FASEB Journal</i> , 2013 , 27, 334.2	0.9	1

8	A Zygotic Checkpoint for Unrepaired Lesions. <i>Cell</i> , 2016 , 167, 1676-1678	56.2	1
7	Getting a Genomic View of DNA Replication Stress. <i>Molecular Cell</i> , 2018 , 72, 201-203	17.6	1
6	Translesion DNA synthesis mediates acquired resistance to olaparib plus temozolomide in small cell lung cancer.. <i>Science Advances</i> , 2022 , 8, eabn1229	14.3	1
5	RAP80 suppresses the vulnerability of R-loops during DNA double-strand break repair.. <i>Cell Reports</i> , 2022 , 38, 110335	10.6	0
4	loss overrides PARP inhibitor sensitivity driven by loss in prostate cancer.. <i>Science Advances</i> , 2022 , 8, eabl9794	14.3	0
3	DNA Damage: Sensing1		
2	Signaling of DNA Replication Stress Through the ATR Checkpoint 2016 , 405-428		
1	Revealing the DNA Structural Determinants for ATM Activation. <i>FASEB Journal</i> , 2009 , 23, 655.1	0.9	