

# Xiaolan Zhao

## List of Publications by Year in descending order

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68  
papers

5,148  
citations

159585

30  
h-index

106344

65  
g-index

70  
all docs

70  
docs citations

70  
times ranked

4455  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifaceted regulation of the sumoylation of the Sgs1 DNA helicase. <i>Journal of Biological Chemistry</i> , 2022, 298, 102092.	3.4	1
2	Cryo-EM structure of DNA-bound Smc5/6 reveals DNA clamping enabled by multi-subunit conformational changes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	27
3	Esc2 orchestrates substrate-specific sumoylation by acting as a SUMO E2 cofactor in genome maintenance. <i>Genes and Development</i> , 2021, 35, 261-272.	5.9	6
4	The Srs2 helicase dampens DNA damage checkpoint by recycling RPA from chromatin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, e2020185118.	7.1	12
5	Structure of Rad5 provides insights into its role in tolerance to replication stress. <i>Molecular and Cellular Oncology</i> , 2021, 8, 1889348.	0.7	0
6	Structure Basis for Shaping the Nse4 Protein by the Nse1 and Nse3 Dimer within the Smc5/6 Complex. <i>Journal of Molecular Biology</i> , 2021, 433, 166910.	4.2	12
7	Integrative analysis reveals unique structural and functional features of the Smc5/6 complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	35
8	Advances in SUMO-based regulation of homologous recombination. <i>Current Opinion in Genetics and Development</i> , 2021, 71, 114-119.	3.3	4
9	Structural basis for the multi-activity factor Rad5 in replication stress tolerance. <i>Nature Communications</i> , 2021, 12, 321.	12.8	10
10	Relocation of Collapsed Forks to the Nuclear Pore Complex Depends on Sumoylation of DNA Repair Proteins and Permits Rad51 Association. <i>Cell Reports</i> , 2020, 31, 107635.	6.4	43
11	DNA polymerase $\hat{\mu}$ relies on a unique domain for efficient replisome assembly and strand synthesis. <i>Nature Communications</i> , 2020, 11, 2437.	12.8	16
12	Molecular Basis for Control of Diverse Genome Stability Factors by the Multi-BRCT Scaffold Rtt107. <i>Molecular Cell</i> , 2019, 75, 238-251.e5.	9.7	21
13	Intricate SUMO-based control of the homologous recombination machinery. <i>Genes and Development</i> , 2019, 33, 1346-1354.	5.9	12
14	Sumoylation of the DNA polymerase $\hat{\mu}$ by the Smc5/6 complex contributes to DNA replication. <i>PLoS Genetics</i> , 2019, 15, e1008426.	3.5	15
15	Replication protein A (RPA) sumoylation positively influences the DNA damage checkpoint response in yeast. <i>Journal of Biological Chemistry</i> , 2019, 294, 2690-5388.	3.4	24
16	SUMO-Mediated Regulation of Nuclear Functions and Signaling Processes. <i>Molecular Cell</i> , 2018, 71, 409-418.	9.7	184
17	Acute Smc5/6 depletion reveals its primary role in rDNA replication by restraining recombination at fork pausing sites. <i>PLoS Genetics</i> , 2018, 14, e1007129.	3.5	35
18	Replication fork regression and its regulation. <i>FEMS Yeast Research</i> , 2017, 17, fow110.	2.3	11

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19	A guide for targeted SUMO removal. <i>Genes and Development</i> , 2017, 31, 719-720.	5.9	3
20	Roles of SUMO in Replication Initiation, Progression, and Termination. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1042, 371-393.	1.6	10
21	SUMO Teams Up with a Translocase to Save TOPO. <i>Molecular Cell</i> , 2017, 66, 577-578.	9.7	1
22	Replication-Associated Recombinational Repair: Lessons from Budding Yeast. <i>Genes</i> , 2016, 7, 48.	2.4	7
23	Multi-BRCT scaffolds use distinct strategies to support genome maintenance. <i>Cell Cycle</i> , 2016, 15, 2561-2570.	2.6	16
24	Smc5/6 Mediated Sumoylation of the Sgs1-Top3-Rmi1 Complex Promotes Removal of Recombination Intermediates. <i>Cell Reports</i> , 2016, 16, 368-378.	6.4	66
25	The Rtt107 BRCT scaffold and its partner modification enzymes collaborate to promote replication. <i>Nucleus</i> , 2016, 7, 346-351.	2.2	6
26	SUMOylation of Rad52-Rad59 synergistically change the outcome of mitotic recombination. <i>DNA Repair</i> , 2016, 42, 11-25.	2.8	9
27	A new MCM modification cycle regulates DNA replication initiation. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 209-216.	8.2	53
28	Differential regulation of the anti-crossover and replication fork regression activities of Mph1 by Mte1. <i>Genes and Development</i> , 2016, 30, 687-699.	5.9	17
29	Role of Posttranslational Modifications in Replication Initiation. , 2016, , 371-392.		1
30	Binding of the Fkh1 Forkhead Associated Domain to a Phosphopeptide within the Mph1 DNA Helicase Regulates Mating-Type Switching in Budding Yeast. <i>PLoS Genetics</i> , 2016, 12, e1006094.	3.5	16
31	SUMO-mediated regulation of DNA damage repair and responses. <i>Trends in Biochemical Sciences</i> , 2015, 40, 233-242.	7.5	120
32	Concerted and differential actions of two enzymatic domains underlie Rad5 contributions to DNA damage tolerance. <i>Nucleic Acids Research</i> , 2015, 43, 2666-2677.	14.5	43
33	Sumoylation Influences DNA Break Repair Partly by Increasing the Solubility of a Conserved End Resection Protein. <i>PLoS Genetics</i> , 2015, 11, e1004899.	3.5	27
34	Selective modulation of the functions of a conserved DNA motor by a histone fold complex. <i>Genes and Development</i> , 2015, 29, 1000-1005.	5.9	17
35	DNA break-induced sumoylation is enabled by collaboration between a SUMO ligase and the ssDNA-binding complex RPA. <i>Genes and Development</i> , 2015, 29, 1593-1598.	5.9	38
36	Rtt107 Is a Multi-functional Scaffold Supporting Replication Progression with Partner SUMO and Ubiquitin Ligases. <i>Molecular Cell</i> , 2015, 60, 268-279.	9.7	26

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37	Functions and regulation of the multitasking FANCM family of DNA motor proteins. <i>Genes and Development</i> , 2015, 29, 1777-1788.	5.9	66
38	A Versatile Scaffold Contributes to Damage Survival via Sumoylation and Nuclease Interactions. <i>Cell Reports</i> , 2014, 9, 143-152.	6.4	16
39	Restriction of Replication Fork Regression Activities by a Conserved SMC Complex. <i>Molecular Cell</i> , 2014, 56, 436-445.	9.7	60
40	Sumoylation of the Rad1 nuclease promotes DNA repair and regulates its DNA association. <i>Nucleic Acids Research</i> , 2014, 42, 6393-6404.	14.5	25
41	Regulation of Ku-DNA Association by Yku70 C-terminal Tail and SUMO Modification. <i>Journal of Biological Chemistry</i> , 2014, 289, 10308-10317.	3.4	28
42	A STUbL wards off telomere fusions. <i>EMBO Journal</i> , 2013, 32, 775-777.	7.8	0
43	Lif1 SUMOylation and its role in non-homologous end-joining. <i>Nucleic Acids Research</i> , 2013, 41, 5341-5353.	14.5	13
44	DNA damage checkpoint and recombinational repair differentially affect the replication stress tolerance of smc6 mutants. <i>Molecular Biology of the Cell</i> , 2013, 24, 2431-2441.	2.1	15
45	Sumoylation and the DNA Damage Response. <i>Biomolecules</i> , 2012, 2, 376-388.	4.0	25
46	Dual roles of the SUMO-interacting motif in the regulation of Srs2 sumoylation. <i>Nucleic Acids Research</i> , 2012, 40, 7831-7843.	14.5	54
47	Homologous recombination and its regulation. <i>Nucleic Acids Research</i> , 2012, 40, 5795-5818.	14.5	532
48	Extensive DNA Damage-Induced Sumoylation Contributes to Replication and Repair and Acts in Addition to the Mec1 Checkpoint. <i>Molecular Cell</i> , 2012, 45, 422-432.	9.7	171
49	The Smc5-Smc6 Complex Regulates Recombination at Centromeric Regions and Affects Kinetochores Protein Sumoylation during Normal Growth. <i>PLoS ONE</i> , 2012, 7, e51540.	2.5	31
50	SUMOylation regulates telomere length homeostasis by targeting Cdc13. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 920-926.	8.2	75
51	SUMO bridges Elg1 and SUMO interactors. <i>Cell Cycle</i> , 2011, 10, 3628-3628.	2.6	1
52	The Smc5/6 Complex and Esc2 Influence Multiple Replication-associated Recombination Processes in <i>Saccharomyces cerevisiae</i> . <i>Molecular Biology of the Cell</i> , 2010, 21, 2306-2314.	2.1	74
53	Rad52 SUMOylation affects the efficiency of the DNA repair. <i>Nucleic Acids Research</i> , 2010, 38, 4708-4721.	14.5	85
54	Interplay between the Smc5/6 complex and the Mph1 helicase in recombinational repair. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21252-21257.	7.1	84

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55	Architecture of the Smc5/6 Complex of <i>Saccharomyces cerevisiae</i> Reveals a Unique Interaction between the Nse5-6 Subcomplex and the Hinge Regions of Smc5 and Smc6. <i>Journal of Biological Chemistry</i> , 2009, 284, 8507-8515.	3.4	83
56	Structural and Functional Insights into the Roles of the Mms21 Subunit of the Smc5/6 Complex. <i>Molecular Cell</i> , 2009, 35, 657-668.	9.7	86
57	Cooperation of Sumoylated Chromosomal Proteins in rDNA Maintenance. <i>PLoS Genetics</i> , 2008, 4, e1000215.	3.5	61
58	Nucleoporins Prevent DNA Damage Accumulation by Modulating Ulp1-dependent Sumoylation Processes. <i>Molecular Biology of the Cell</i> , 2007, 18, 2912-2923.	2.1	129
59	The Slx5-Slx8 Complex Affects Sumoylation of DNA Repair Proteins and Negatively Regulates Recombination. <i>Molecular and Cellular Biology</i> , 2007, 27, 6153-6162.	2.3	124
60	Ubc9- and Mms21-Mediated Sumoylation Counteracts Recombinogenic Events at Damaged Replication Forks. <i>Cell</i> , 2006, 127, 509-522.	28.9	266
61	Smc5-Smc6 mediate DNA double-strand-break repair by promoting sister-chromatid recombination. <i>Nature Cell Biology</i> , 2006, 8, 1032-1034.	10.3	170
62	A SUMO ligase is part of a nuclear multiprotein complex that affects DNA repair and chromosomal organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4777-4782.	7.1	394
63	Mlp-dependent anchorage and stabilization of a desumoylating enzyme is required to prevent clonal lethality. <i>Journal of Cell Biology</i> , 2004, 167, 605-611.	5.2	134
64	Sml1p Is a Dimer in Solution: Characterization of Denaturation and Renaturation of Recombinant Sml1p. <i>Biochemistry</i> , 2004, 43, 8568-8578.	2.5	14
65	Survival of DNA Damage in Yeast Directly Depends on Increased dNTP Levels Allowed by Relaxed Feedback Inhibition of Ribonucleotide Reductase. <i>Cell</i> , 2003, 112, 391-401.	28.9	382
66	The Dun1 checkpoint kinase phosphorylates and regulates the ribonucleotide reductase inhibitor Sml1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3746-3751.	7.1	236
67	Mutational and Structural Analyses of the Ribonucleotide Reductase Inhibitor Sml1 Define Its Rnr1 Interaction Domain Whose Inactivation Allows Suppression of <i>mec1</i> and <i>rad53</i> Lethality. <i>Molecular and Cellular Biology</i> , 2000, 20, 9076-9083.	2.3	85
68	A Suppressor of Two Essential Checkpoint Genes Identifies a Novel Protein that Negatively Affects dNTP Pools. <i>Molecular Cell</i> , 1998, 2, 329-340.	9.7	681