Johannes C Walter

List of Publications by Year
in descending order

101 papers	13,809 citations	19657 61 h-index	31849 101 g-index
119 all docs	119 docs citations	119 times ranked	10363 citing authors

#	Article	IF	Citations
1	Inhibition of Eukaryotic DNA Replication by Geminin Binding to Cdt1. Science, 2000, 290, 2309-2312.	12.6	660
2	Functional uncoupling of MCM helicase and DNA polymerase activities activates the ATR-dependent checkpoint. Genes and Development, 2005, 19, 1040-1052.	5.9	635
3	A Family of Diverse Cul4-Ddb1-Interacting Proteins Includes Cdt2, which Is Required for S Phase Destruction of the Replication Factor Cdt1. Molecular Cell, 2006, 23, 709-721.	9.7	551
4	Self-Assembling Protein Microarrays. Science, 2004, 305, 86-90.	12.6	537
5	The Nucleosomal Surface as a Docking Station for Kaposi's Sarcoma Herpesvirus LANA. Science, 2006, 311, 856-861.	12.6	469
6	The Fanconi Anemia Pathway Promotes Replication-Dependent DNA Interstrand Cross-Link Repair. Science, 2009, 326, 1698-1701.	12.6	454
7	Mechanism of Replication-Coupled DNA Interstrand Crosslink Repair. Cell, 2008, 134, 969-980.	28.9	443
8	Initiation of Eukaryotic DNA Replication. Molecular Cell, 2000, 5, 617-627.	9.7	372
9	Strength in numbers: preventing rereplication via multiple mechanisms in eukaryotic cells. Genes and Development, 2007, 21, 497-518.	5.9	355
10	Localization of MCM2-7, Cdc45, and GINS to the Site of DNA Unwinding during Eukaryotic DNA Replication. Molecular Cell, 2006, 21, 581-587.	9.7	324
11	Selective Bypass of a Lagging Strand Roadblock by the Eukaryotic Replicative DNA Helicase. Cell, 2011, 146, 931-941.	28.9	317
12	PCNA functions as a molecular platform to trigger Cdt1 destruction and prevent re-replication. Nature Cell Biology, 2006, 8, 84-90.	10.3	286
13	The BRCA1/BARD1 Heterodimer Modulates Ran-Dependent Mitotic Spindle Assembly. Cell, 2006, 127, 539-552.	28.9	266
14	Regulated Chromosomal DNA Replication in the Absence of a Nucleus. Molecular Cell, 1998, 1, 519-529.	9.7	264
15	Sequence-independent DNA binding and replication initiation by the human origin recognition complex. Genes and Development, 2003, 17, 1894-1908.	5.9	256
16	XPF-ERCC1 Acts in Unhooking DNA Interstrand Crosslinks in Cooperation with FANCD2 and FANCP/SLX4. Molecular Cell, 2014, 54, 460-471.	9.7	254
17	MCM2â€“7 Complexes Bind Chromatin in a Distributed Pattern Surrounding the Origin Recognition Complex inXenopus Egg Extracts. Journal of Biological Chemistry, 2002, 277, 33049-33057.	3.4	237
18	A requirement for MCM7 and Cdc45 in chromosome unwinding during eukaryotic DNA replication. EMBO Journal, 2004, 23, 3667-3676.	7.8	221

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19	PCNA Is a Cofactor for Cdt1 Degradation by CUL4/DDB1-mediated N-terminal Ubiquitination. Journal of Biological Chemistry, 2006, 281, 6246-6252.	3.4	215
20	Mechanism of RAD51-Dependent DNA Interstrand Cross-Link Repair. Science, 2011, 333, 84-87.	12.6	213
21	CRL4Cdt2-Mediated Destruction of the Histone Methyltransferase Set8 Prevents Premature Chromatin Compaction in S Phase. Molecular Cell, 2010, 40, 22-33.	9.7	201
22	Mechanism of CRL4^{Cdt2}, a PCNA-dependent E3 ubiquitin ligase. Genes and Development, 2011, 25, 1568-1582.	5.9	196
23	Repair of a DNA-Protein Crosslink by Replication-Coupled Proteolysis. Cell, 2014, 159, 346-357.	28.9	190
24	Proteomics reveals dynamic assembly of repair complexes during bypass of DNA cross-links. Science, 2015, 348, 1253671.	12.6	183
25	Recruitment of Xenopus Scc2 and cohesin to chromatin requires the pre-replication complex. Nature Cell Biology, 2004, 6, 991-996.	10.3	180
26	Replication-dependent destruction of Cdt1 limits DNA replication to a single round per cell cycle in Xenopus egg extracts. Genes and Development, 2005, 19, 114-126.	5.9	179
27	Xenopus Mcm10 Binds to Origins of DNA Replication after Mcm2-7 and Stimulates Origin Binding of Cdc45. Molecular Cell, 2002, 9, 233-240.	9.7	170
28	Mechanism and regulation of incisions during DNA interstrand cross-link repair. DNA Repair, 2014, 19, 135-142.	2.8	166
29	Replication-Dependent Unhooking of DNA Interstrand Cross-Links by the NEIL3 Glycosylase. Cell, 2016, 167, 498-511.e14.	28.9	164
30	Two-Stage Synapsis of DNA Ends during Non-homologous End Joining. Molecular Cell, 2016, 61, 850-858.	9.7	162
31	Docking of a Specialized PIP Box onto Chromatin-Bound PCNA Creates a Degron for the Ubiquitin Ligase CRL4Cdt2. Molecular Cell, 2009, 35, 93-104.	9.7	161
32	The Cep192-Organized Aurora A-Plk1 Cascade Is Essential for Centrosome Cycle and Bipolar Spindle Assembly. Molecular Cell, 2014, 55, 578-591.	9.7	161
33	Regulation of Replicon Size inXenopusEgg Extracts. Science, 1997, 275, 993-995.	12.6	160
34	Pumps, paradoxes and ploughshares: mechanism of the MCM2â€“7 DNA helicase. Trends in Biochemical Sciences, 2005, 30, 437-444.	7.5	146
35	Evidence for Sequential Action of cdc7 and cdk2 Protein Kinases during Initiation of DNA Replication in Xenopus Egg Extracts. Journal of Biological Chemistry, 2000, 275, 39773-39778.	3.4	142
36	The CMG Helicase Bypasses DNA-Protein Cross-Links to Facilitate Their Repair. Cell, 2019, 176, 167-181.e21.	28.9	138

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37	Replication-Coupled DNA-Protein Crosslink Repair by SPRTN and the Proteasome in Xenopus Egg Extracts. Molecular Cell, 2019, 73, 574-588.e7.	9.7	135
38	TRAIP is a master regulator of DNA interstrand crosslink repair. Nature, 2019, 567, 267-272.	27.8	128
39	DNA interstrand cross-link repair requires replication-fork convergence. Nature Structural and Molecular Biology, 2015, 22, 242-247.	8.2	127
40	The Xenopus Xmus101 protein is required for the recruitment of Cdc45 to origins of DNA replication. Journal of Cell Biology, 2002, 159, 541-547.	5.2	126
41	Uncoupling of Sister Replisomes during Eukaryotic DNA Replication. Molecular Cell, 2010, 40, 834-840.	9.7	126
42	The mechanism of DNA replication termination in vertebrates. Nature, 2015, 525, 345-350.	27.8	125
43	What is the DNA repair defect underlying Fanconi anemia?. Current Opinion in Cell Biology, 2015, 37, 49-60.	5.4	124
44	Two homeo domain proteins bind with similar specificity to a wide range of DNA sites in Drosophila embryos.. Genes and Development, 1994, 8, 1678-1692.	5.9	115
45	Proliferating Cell Nuclear Antigen Uses Two Distinct Modes to Move along DNA. Journal of Biological Chemistry, 2009, 284, 17700-17710.	3.4	114
46	Mechanisms of DNA replication termination. Nature Reviews Molecular Cell Biology, 2017, 18, 507-516.	37.0	114
47	Mitotic CDK Promotes Replisome Disassembly, Fork Breakage, and Complex DNA Rearrangements. Molecular Cell, 2019, 73, 915-929.e6.	9.7	110
48	A Genome-wide Screen Identifies p97 as an Essential Regulator of DNA Damage-Dependent CDT1 Destruction. Molecular Cell, 2011, 44, 72-84.	9.7	106
49	Cdc7â€“Drf1 kinase links chromosome cohesion to the initiation of DNA replication in Xenopus egg extracts. Genes and Development, 2008, 22, 1894-1905.	5.9	103
50	DNA Replication in Nucleus-Free Xenopus Egg Extracts. Methods in Molecular Biology, 2009, 521, 229-252.	0.9	103
51	Centrosomal protein of 192 kDa (Cep192) promotes centrosome-driven spindle assembly by engaging in organelle-specific Aurora A activation. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21022-21027.	7.1	101
52	BRCA1 Promotes Unloading of the CMG Helicase from a Stalled DNA Replication Fork. Molecular Cell, 2014, 56, 174-185.	9.7	101
53	The MCM8-MCM9 Complex Promotes RAD51 Recruitment at DNA Damage Sites To Facilitate Homologous Recombination. Molecular and Cellular Biology, 2013, 33, 1632-1644.	2.3	100
54	Regulation of the Rev1â€“pol Î¶ complex during bypass of a <scp>DNA</scp> interstrand crossâ€link. EMBO Journal, 2015, 34, 1971-1985.	7.8	100

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55	Eukaryotic origins of DNA replication: could you please be more specific?. Seminars in Cell and Developmental Biology, 2005, 16, 343-353.	5.0	91
56	The cooperative action of CSB, CSA, and UVSSA target TFIIH to DNA damage-stalled RNA polymerase II. Nature Communications, 2020, 11, 2104.	12.8	91
57	CRL2^{Lrr1} promotes unloading of the vertebrate replisome from chromatin during replication termination. Genes and Development, 2017, 31, 275-290.	5.9	90
58	Bypass of a protein barrier by a replicative DNA helicase. Nature, 2012, 492, 205-209.	27.8	85
59	A general approach to break the concentration barrier in single-molecule imaging. Nature Methods, 2012, 9, 987-992.	19.0	76
60	Mechanisms of Vertebrate DNA Interstrand Cross-Link Repair. Annual Review of Biochemistry, 2021, 90, 107-135.	11.1	69
61	Cdc7-Drf1 is a developmentally regulated protein kinase required for the initiation of vertebrate DNA replication. Genes and Development, 2005, 19, 2295-2300.	5.9	65
62	A Mechanism to Minimize Errors during Non-homologous End Joining. Molecular Cell, 2020, 77, 1080-1091.e8.	9.7	65
63	Protein Phosphatase 2A Antagonizes ATM and ATR in a Cdk2- and Cdc7-Independent DNA Damage Checkpoint. Molecular and Cellular Biology, 2006, 26, 1997-2011.	2.3	64
64	Prereplication-complex formation: a molecular double take?. Nature Structural and Molecular Biology, 2014, 21, 20-25.	8.2	63
65	Replication Fork Reversal during DNA Interstrand Crosslink Repair Requires CMG Unloading. Cell Reports, 2018, 23, 3419-3428.	6.4	63
66	Single-strand DNA breaks cause replisome disassembly. Molecular Cell, 2021, 81, 1309-1318.e6.	9.7	62
67	A single XLF dimer bridges DNA ends during nonhomologous end joining. Nature Structural and Molecular Biology, 2018, 25, 877-884.	8.2	52
68	Single-molecule analysis of DNA replication in Xenopus egg extracts. Methods, 2012, 57, 179-186.	3.8	50
69	Domain Architecture and Biochemical Characterization of Vertebrate Mcm10. Journal of Biological Chemistry, 2008, 283, 3338-3348.	3.4	47
70	Direct Role for Proliferating Cell Nuclear Antigen in Substrate Recognition by the E3 Ubiquitin Ligase CRL4Cdt2. Journal of Biological Chemistry, 2012, 287, 11410-11421.	3.4	43
71	DNA binding specificity of two homeodomain proteins in vitro and in Drosophila embryos.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 2680-2685.	7.1	42
72	Protein Phosphatase 2A Regulates Binding of Cdc45 to the Prereplication Complex. Journal of Biological Chemistry, 2002, 277, 40520-40527.	3.4	42

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73	Thymine DNA Glycosylase Is a CRL4Cdt2 Substrate. Journal of Biological Chemistry, 2014, 289, 23043-23055.	3.4	40
74	ELOF1 is a transcription-coupled DNA repair factor that directs RNA polymerase II ubiquitylation. Nature Cell Biology, 2021, 23, 595-607.	10.3	38
75	CDC7-independent G1/S transition revealed by targeted protein degradation. Nature, 2022, 605, 357-365.	27.8	38
76	The DNA replication fork suppresses CMG unloading from chromatin before termination. Genes and Development, 2020, 34, 1534-1545.	5.9	34
77	Chromosomal DNA Replication in a Soluble Cell-Free System Derived From Xenopus Eggs. Methods in Molecular Biology, 2006, 322, 121-137.	0.9	32
78	DNA replication of mitotic chromatin in Xenopus egg extracts. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13241-13246.	7.1	31
79	Replication-Coupled DNA Interstrand Cross-Link Repair in Xenopus Egg Extracts. Methods in Molecular Biology, 2012, 920, 221-243.	0.9	30
80	Construction of Plasmids Containing Site-Specific DNA Interstrand Cross-Links for Biochemical and Cell Biological Studies. Methods in Molecular Biology, 2012, 920, 203-219.	0.9	29
81	Extracts for Analysis of DNA Replication in a Nucleus-Free System. Cold Spring Harbor Protocols, 2019, 2019, pdb.prot097154.	0.3	29
82	Getting a Grip on Licensing: Mechanism of Stable Mcm2-7 Loading onto Replication Origins. Molecular Cell, 2006, 21, 143-144.	9.7	28
83	New Myc-anisms for DNA Replication and Tumorigenesis?. Cancer Cell, 2007, 12, 102-103.	16.8	28
84	The Histone Chaperone FACT Induces Cas9 Multi-turnover Behavior and Modifies Genome Manipulation in Human Cells. Molecular Cell, 2020, 79, 221-233.e5.	9.7	28
85	Initiation of DNA replication in xenopus egg extracts. Frontiers in Bioscience - Landmark, 2004, 9, 3029.	3.0	24
86	Ribonucleotide Reductase Activity Is Coupled to DNA Synthesis via Proliferating Cell Nuclear Antigen. Current Biology, 2012, 22, 720-726.	3.9	24
87	Ensemble and Single-Molecule Analysis of Non-Homologous End Joining in Frog Egg Extracts. Methods in Enzymology, 2017, 591, 233-270.	1.0	19
88	The Ubiquitin Ligase TRAIP: Double-Edged Sword at the Replisome. Trends in Cell Biology, 2021, 31, 75-85.	7.9	18
89	The HMCES DNA-protein cross-link functions as an intermediate in DNA interstrand cross-link repair. Nature Structural and Molecular Biology, 2022, 29, 451-462.	8.2	17
90	DNA is a co-factor for its own replication in Xenopus egg extracts. Nucleic Acids Research, 2011, 39, 545-555.	14.5	14

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91	Cdk1: Unsung Hero of S Phase?. Cell Cycle, 2004, 3, 399-401.	2.6	13
92	A Novel Function for BRCA1 In Crosslink Repair. Molecular Cell, 2012, 46, 111-112.	9.7	10
93	DNA Replication: Metazoan Sld3 Steps Forward. Current Biology, 2010, 20, R515-R517.	3.9	8
94	Single-Molecule Visualization of MCM2-7 DNA Loading: Seeing Is Believing. Cell, 2015, 161, 429-430.	28.9	7
95	Structure of CRL2Lrr1, the E3 ubiquitin ligase that promotes DNA replication termination in vertebrates. Nucleic Acids Research, 2021, 49, 13194-13206.	14.5	4
96	A new varietal of DNA interstrand crosslink repair. Cell Research, 2020, 30, 459-460.	12.0	3
97	Molecular watchdogs on genome patrol. ELife, 2014, 3, e02854.	6.0	3
98	Chromosome Biology: Conflict Management for Replication and Transcription. Current Biology, 2013, 23, R200-R202.	3.9	2
99	Assays to Study Mitotic Centrosome and Spindle Pole Assembly and Regulation. Methods in Molecular Biology, 2016, 1413, 207-235.	0.9	1
100	Mechanism of preâ€RCâ€dependent cohesin loading in Xenopus egg extracts. FASEB Journal, 2007, 21, A94.	0.5	1
101	Mechanism of replicationâ€coupled DNA interstrand crossâ€link repair. FASEB Journal, 2013, 27, .	0.5	0