Marco Foiani

List of Publications by Year
in descending order

112 papers	13,822 citations	28242 55 h-index	29127 104 g-index
115 all docs	115 docs citations	115 times ranked	13604 citing authors

#	Article	IF	Citations
1	Regulation of DNA repair throughout the cell cycle. Nature Reviews Molecular Cell Biology, 2008, 9, 297-308.	16.1	1,028
2	Fork Reversal and ssDNA Accumulation at Stalled Replication Forks Owing to Checkpoint Defects. Science, 2002, 297, 599-602.	6.0	756
3	The DNA replication checkpoint response stabilizes stalled replication forks. Nature, 2001, 412, 557-561.	13.7	693
4	Maintaining genome stability at the replication fork. Nature Reviews Molecular Cell Biology, 2010, 11, 208-219.	16.1	690
5	DNA end resection, homologous recombination and DNA damage checkpoint activation require CDK1. Nature, 2004, 431, 1011-1017.	13.7	641
6	Srs2 and Sgs1â€"Top3 Suppress Crossovers during Double-Strand Break Repair in Yeast. Cell, 2003, 115, 401-411.	13.5	539
7	Multiple Mechanisms Control Chromosome Integrity after Replication Fork Uncoupling and Restart at Irreparable UV Lesions. Molecular Cell, 2006, 21, 15-27.	4.5	515
8	HDACs link the DNA damage response, processing of double-strand breaks and autophagy. Nature, 2011, 471, 74-79.	13.7	368
9	Activation of Rad53 kinase in response to DNA damage and its effect in modulating phosphorylation of the lagging strand DNA polymerase. EMBO Journal, 1999, 18, 6561-6572.	3.5	354
10	Recovery from Checkpoint-Mediated Arrest after Repair of a Double-Strand Break Requires Srs2 Helicase. Molecular Cell, 2002, 10, 373-385.	4.5	310
11	Spk1/Rad53 is regulated by Mec1-dependent protein phosphorylation in DNA replication and damage checkpoint pathways.. Genes and Development, 1996, 10, 395-406.	2.7	295
12	Rad51-dependent DNA structures accumulate at damaged replication forks in sgs1 mutants defective in the yeast ortholog of BLM RecQ helicase. Genes and Development, 2005, 19, 339-350.	2.7	287
13	Regulation of Saccharomyces Rad53 Checkpoint Kinase during Adaptation from DNA Damageâ€"Induced G2/M Arrest. Molecular Cell, 2001, 7, 293-300.	4.5	276
14	G-quadruplex-induced instability during leading-strand replication. EMBO Journal, 2011, 30, 4033-4046.	3.5	269
15	Ubc9- and Mms21-Mediated Sumoylation Counteracts Recombinogenic Events atÂDamaged Replication Forks. Cell, 2006, 127, 509-522.	13.5	266
16	SUMOylation regulates Rad18-mediated template switch. Nature, 2008, 456, 915-920.	13.7	238
17	Exo1 Processes Stalled Replication Forks and Counteracts Fork Reversal in Checkpoint-Defective Cells. Molecular Cell, 2005, 17, 153-159.	4.5	234
18	The DNA damage response during DNA replication. Current Opinion in Cell Biology, 2005, 17, 568-575.	2.6	217

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19	Combination of Hypoglycemia and Metformin Impairs Tumor Metabolic Plasticity and Growth by Modulating the PP2A-GSK3Î²-MCL-1 Axis. Cancer Cell, 2019, 35, 798-815.e5.	7.7	212
20	ATM and ATR signaling at a glance. Journal of Cell Science, 2015, 128, 4255-62.	1.2	207
21	The Replication Checkpoint Protects Fork Stability by Releasing Transcribed Genes from Nuclear Pores. Cell, 2011, 146, 233-246.	13.5	204
22	Senataxin Associates with Replication Forks to Protect Fork Integrity across RNA-Polymerase-II-Transcribed Genes. Cell, 2012, 151, 835-846.	13.5	204
23	The checkpoint response to replication stress. DNA Repair, 2009, 8, 1038-1046.	1.3	191
24	Genome-wide function of THO/TREX in active genes prevents R-loop-dependent replication obstacles. EMBO Journal, 2011, 30, 3106-3119.	3.5	191
25	ATR Mediates a Checkpoint at the Nuclear Envelope in Response to Mechanical Stress. Cell, 2014, 158, 633-646.	13.5	179
26	GCD2, a translational repressor of the GCN4 gene, has a general function in the initiation of protein synthesis in Saccharomyces cerevisiae.. Molecular and Cellular Biology, 1991, 11, 3203-3216.	1.1	175
27	Unique pattern of ET-743 activity in different cellular systems with defined deficiencies in DNA-repair pathways. International Journal of Cancer, 2001, 92, 583-588.	2.3	155
28	Preventing Replication Stress to Maintain Genome Stability: Resolving Conflicts between Replication and Transcription. Molecular Cell, 2012, 45, 710-718.	4.5	152
29	Checkpoint-mediated control of replisomeâ€"fork association and signalling in response to replication pausing. Oncogene, 2004, 23, 1206-1213.	2.6	147
30	DNA damage checkpoint in budding yeast. EMBO Journal, 1998, 17, 5525-5528.	3.5	145
31	Targeting Cancer Metabolism: Dietary and Pharmacologic Interventions. Cancer Discovery, 2016, 6, 1315-1333.	7.7	137
32	Top1- and Top2-mediated topological transitions at replication forks ensure fork progression and stability and prevent DNA damage checkpoint activation. Genes and Development, 2007, 21, 1921-1936.	2.7	134
33	Complex formation by positive and negative translational regulators of GCN4.. Molecular and Cellular Biology, 1991, 11, 3217-3228.	1.1	131
34	Replication Termination at Eukaryotic Chromosomes Is Mediated by Top2 and Occurs at Genomic Loci Containing Pausing Elements. Molecular Cell, 2010, 39, 595-605.	4.5	131
35	Visualization of recombination-mediated damage bypass by template switching. Nature Structural and Molecular Biology, 2014, 21, 884-892.	3.6	124
36	Fasting-Mimicking Diet Is Safe and Reshapes Metabolism and Antitumor Immunity in Patients with Cancer. Cancer Discovery, 2022, 12, 90-107.	7.7	124

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37	DNA damage checkpoints and DNA replication controls in Saccharomyces cerevisiae. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2000, 451, 187-196.	0.4	110
38	Replicon Dynamics, Dormant Origin Firing, and Terminal Fork Integrity after Double-Strand Break Formation. Cell, 2009, 137, 247-258.	13.5	110
39	Branch Migrating Sister Chromatid Junctions Form at Replication Origins through Rad51/Rad52-Independent Mechanisms. Molecular Cell, 2003, 12, 1499-1510.	4.5	107
40	A role for DNA primase in coupling DNA replication to DNA damage response. EMBO Journal, 1997, 16, 639-650.	3.5	106
41	The Rad53 signal transduction pathway: Replication fork stabilization, DNA repair, and adaptation. Experimental Cell Research, 2006, 312, 2654-2659.	1.2	106
42	Interplay of replication checkpoints and repair proteins at stalled replication forks. DNA Repair, 2007, 6, 994-1003.	1.3	105
43	Genome-Organizing Factors Top2 and Hmo1 Prevent Chromosome Fragility at Sites of S phase Transcription. Cell, 2009, 138, 870-884.	13.5	101
44	Role of homologous recombination in trabectedin-induced DNA damage. European Journal of Cancer, 2008, 44, 609-618.	1.3	95
45	The<i>Saccharomyces cerevisiae</i>Esc2 and Smc5-6 Proteins Promote Sister Chromatid Junction-mediated Intra-S Repair. Molecular Biology of the Cell, 2009, 20, 1671-1682.	0.9	92
46	YAP/TAZ activity in stromal cells prevents ageing by controlling cGASâ€“STING. Nature, 2022, 607, 790-798.	13.7	89
47	Srs2 and Sgs1 DNA Helicases Associate with Mre11 in Different Subcomplexes following Checkpoint Activation and CDK1-Mediated Srs2 Phosphorylation. Molecular and Cellular Biology, 2005, 25, 5738-5751.	1.1	80
48	Signal Transduction: How Rad53 Kinase Is Activated. Current Biology, 2005, 15, R769-R771.	1.8	76
49	The Saccharomyces recombination protein Tid1p is required for adaptation from G2/M arrest induced by a double-strand break. Current Biology, 2001, 11, 1053-1057.	1.8	73
50	A single essential gene, PRI2, encodes the large subunit of DNA primase in Saccharomyces cerevisiae.. Molecular and Cellular Biology, 1989, 9, 3081-3087.	1.1	72
51	A meiosis-specific protein kinase, Ime2, is required for the correct timing of DNA replication and for spore formation in yeast meiosis. Molecular Genetics and Genomics, 1996, 253, 278-288.	2.4	68
52	Evidence for a Cdc6p-independent mitotic resetting event involving DNA polymerase Î±. EMBO Journal, 1998, 17, 4139-4146.	3.5	68
53	DNA damage causes rapid accumulation of phosphoinositides for ATRÂsignaling. Nature Communications, 2017, 8, 2118.	5.8	66
54	Beclin 1 restrains tumorigenesis through Mcl-1 destabilization in an autophagy-independent reciprocal manner. Nature Communications, 2014, 5, 5637.	5.8	65

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55	Sgs1 function in the repair of DNA replication intermediates is separable from its role in homologous recombinational repair. EMBO Journal, 2009, 28, 915-925.	3.5	60
56	ATR is essential for preservation of cell mechanics and nuclear integrity during interstitial migration. Nature Communications, 2020, 11, 4828.	5.8	60
57	Guanine nucleotide exchange factor for eukaryotic translation initiation factor 2 in Saccharomyces cerevisiae: interactions between the essential subunits GCD2, GCD6, and GCD7 and the regulatory subunit GCN3.. Molecular and Cellular Biology, 1993, 13, 4618-4631.	1.1	56
58	The DNA Polymerase _-Primase Complex: Multiple Functions and Interactions. Scientific World Journal, The, 2003, 3, 21-33.	0.8	56
59	Rad53-Mediated Regulation of Rrm3 and Pif1 DNA Helicases Contributes to Prevention of Aberrant Fork Transitions under Replication Stress. Cell Reports, 2015, 13, 80-92.	2.9	53
60	Negative supercoil at gene boundaries modulates gene topology. Nature, 2020, 577, 701-705.	13.7	53
61	Berberine in the treatment of metabolism-related chronic diseases: A drug cloud (dCloud) effect to target multifactorial disorders. , 2020, 209, 107496.		52
62	De novo synthesis of budding yeast DNA polymerase alpha and POL1 transcription at the G1/S boundary are not required for entrance into S phase.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 10519-10523.	3.3	51
63	Yeast Rad52 and Rad51 Recombination Proteins Define a Second Pathway of DNA Damage Assessment in Response to a Single Double-Strand Break. Molecular and Cellular Biology, 2003, 23, 8913-8923.	1.1	50
64	Template Switching: From Replication Fork Repair to Genome Rearrangements. Cell, 2007, 131, 1228-1230.	13.5	45
65	Acetylation: A Novel Link between Double-Strand Break Repair and Autophagy. Cancer Research, 2012, 72, 1332-1335.	0.4	43
66	RecQ helicases queuing with Srs2 to disrupt Rad51 filaments and suppress recombination. Genes and Development, 2007, 21, 3019-3026.	2.7	42
67	PP2A Controls Genome Integrity by Integrating Nutrient-Sensing and Metabolic Pathways with the DNA Damage Response. Molecular Cell, 2017, 67, 266-281.e4.	4.5	42
68	Major Roles for Pyrimidine Dimers, Nucleotide Excision Repair, and ATR in the Alternative Splicing Response to UV Irradiation. Cell Reports, 2017, 18, 2868-2879.	2.9	41
69	Methods to Study Replication Fork Collapse in Budding Yeast. Methods in Enzymology, 2006, 409, 442-462.	0.4	37
70	High molecular weight immunoreactive basic fibroblast growth factor-like proteins in rat pituitary and brain. Neuroscience Letters, 1988, 90, 308-313.	1.0	34
71	A lethal combination for cancer cells: Synthetic lethality screenings for drug discovery. European Journal of Cancer, 2010, 46, 2889-2895.	1.3	33
72	Preserving the genome by regulating chromatin association with the nuclear envelope. Trends in Cell Biology, 2012, 22, 465-473.	3.6	33

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73	Molecular Pathways: Old Drugs Define New Pathways: Non-Histone Acetylation at the Crossroads of the DNA Damage Response and Autophagy. Clinical Cancer Research, 2012, 18, 2436-2442.	3.2	33
74	ATR-mediated regulation of nuclear and cellular plasticity. DNA Repair, 2016, 44, 143-150.	1.3	33
75	Dormant origins and fork protection mechanisms rescue sister forks arrested by transcription. Nucleic Acids Research, 2018, 46, 1227-1239.	6.5	32
76	Dna2 processes behind the fork long ssDNA flaps generated by Pif1 and replication-dependent strand displacement. Nature Communications, 2018, 9, 4830.	5.8	28
77	Phosphorylation of the DNA Polymerase -Primase B Subunit Is Dependent on Its Association with the p180 Polypeptide. Journal of Biological Chemistry, 1996, 271, 8661-8666.	1.6	26
78	Nuclear Envelope and Chromatin, Lock and Key of Genome Integrity. International Review of Cell and Molecular Biology, 2015, 317, 267-330.	1.6	20
79	Impact of systemic and tumor lipid metabolism on everolimus efficacy in advanced pancreatic neuroendocrine tumors (pNETs). International Journal of Cancer, 2019, 144, 1704-1712.	2.3	20
80	The human nucleoporin Tpr protects cells from RNA-mediated replication stress. Nature Communications, 2021, 12, 3937.	5.8	20
81	Mechanism of initiation of in vitro DNA synthesis by the immunopurified complex between yeast DNA polymerase I and DNA primase. FEBS Journal, 1986, 161, 435-440.	0.2	19
82	Characterization of the BUD31 gene of Saccharomyces cerevisiae. Biochemical and Biophysical Research Communications, 2004, 320, 1342-1350.	1.0	18
83	The yeast DNA polymerase-primase complex: Genes and proteins. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 1988, 951, 268-273.	2.4	16
84	ChIP-on-Chip Analysis of DNA Topoisomerases. Methods in Molecular Biology, 2009, 582, 103-118.	0.4	15
85	The Rad53CHK1/CHK2-Spt21NPAT and Tel1ATM axes couple glucose tolerance to histone dosage and subtelomeric silencing. Nature Communications, 2020, 11, 4154.	5.8	14
86	A dominant-negative MEC3 mutant uncovers new functions for the Rad17 complex and Tel1. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 12997-13002.	3.3	13
87	Palmdelphin Regulates Nuclear Resilience to Mechanical Stress in the Endothelium. Circulation, 2021, 144, 1629-1645.	1.6	13
88	Mechanisms Controlling the Integrity of Replicating Chromosomes in Budding Yeast. Cell Cycle, 2003, 2, 563-566.	1.3	12
89	Coordinating Replication with Transcription. Advances in Experimental Medicine and Biology, 2017, 1042, 455-487.	0.8	12
90	Leaping forks at inverted repeats: Figure 1.. Genes and Development, 2010, 24, 5-9.	2.7	11

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91	Dna2 Offers Support for Stalled Forks. Cell, 2012, 149, 1181-1183.	13.5	10
92	The double life of Holliday junctions. Cell Research, 2010, 20, 611-613.	5.7	9
93	A Mad2-Mediated Translational Regulatory Mechanism Promoting S-Phase Cyclin Synthesis Controls Origin Firing and Survival to Replication Stress. Molecular Cell, 2018, 70, 628-638.e5.	4.5	9
94	Golgi Feels DNAâ€™s Pain. Cell, 2014, 156, 392-393.	13.5	8
95	Cohesion by topology: sister chromatids interlocked by DNA: Figure 1.. Genes and Development, 2008, 22, 2297-2301.	2.7	7
96	Endosomal trafficking and DNA damage checkpoint kinases dictate survival to replication stress by regulating amino acid uptake and protein synthesis. Developmental Cell, 2021, 56, 2607-2622.e6.	3.1	6
97	Initiation of DNA Replication. Cell, 2004, 116, 3-4.	13.5	5
98	Recombination at Collapsed Replication Forks: the Payoff for Survival. Molecular Cell, 2005, 18, 614-615.	4.5	5
99	A rapid method to visualize human mitochondrial DNA replication through rotary shadowing and transmission electron microscopy. Nucleic Acids Research, 2021, 49, e121-e121.	6.5	5
100	An Error-Prone Polymerase in the Fight against Cancer. Cell, 2019, 176, 1241-1243.	13.5	4
101	Disruptive influence. Nature, 2003, 423, 234-235.	13.7	3
102	The transcription factor PREP1(PKNOX1) regulates nuclear stiffness, the expression of LINC complex proteins and mechanotransduction. Communications Biology, 2022, 5, 456.	2.0	3
103	A model of DNA damage response activation at stalled replication forks by SPRTN. Nature Communications, 2019, 10, 5671.	5.8	2
104	Budding Yeast DNA Damage Checkpoint: A Signal Transduction-Mediated Surveillance System. , 2003, , 197-202.		1
105	Vps30/Atg6/BECN1 at the crossroads between cell metabolism and DNA damage response. Autophagy, 2022, 18, 1202-1204.	4.3	1
106	Sometimes size does matter. European Journal of Cancer, 2003, 39, 1337-1338.	1.3	0
107	Replication forks and replication checkpoints in repair. , 2006, , 201-219.		0
108	Dangerous liaisons: MYCN meets condensins. Cell Cycle, 2014, 13, 1225-1226.	1.3	0

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109	Ultrastructure of fibroblasts from patients with progeria. Ultrastructural Pathology, 2017, 41, 108-109.	0.4	0
110	Ubiquitilated Fanconi ID complex embraces DNA. Cell Research, 2020, 30, 554-555.	5.7	0
111	Responses to Replication of DNA Damage. , 2005, , .		0
112	Replication forks and replication checkpoints in repair. Topics in Current Genetics, 2007, , 201-219.	0.7	0