Grzegorz Ira

List of Publications by Year
in descending order

54 papers	8,851 citations	117625 34 h-index	206112 48 g-index
58 all docs	58 docs citations	58 times ranked	8067 citing authors

#	Article	IF	Citations
1	Deciphering the mechanism of processive ssDNA digestion by the Dna2-RPA ensemble. Nature Communications, 2022, 13, 359.	12.8	12
2	Measuring the contributions of helicases to break-induced replication. Methods in Enzymology, 2022, , 339-368.	1.0	0
3	Tracking break-induced replication shows that it stalls at roadblocks. Nature, 2021, 590, 655-659.	27.8	36
4	Mechanisms restraining breakâ€induced replication at twoâ€ended DNA doubleâ€strand breaks. EMBO Journal, 2021, 40, e104847.	7.8	45
5	Rtt105 promotes high-fidelity DNA replication and repair by regulating the single-stranded DNA-binding factor RPA. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
6	Analysis of DNA Double-Strand Break End Resection and Single-Strand Annealing in S. pombe. Methods in Molecular Biology, 2021, 2153, 47-57.	0.9	1
7	A Rad51-independent pathway promotes single-strand template repair in gene editing. PLoS Genetics, 2020, 16, e1008689.	3.5	33
8	A Rad51-independent pathway promotes single-strand template repair in gene editing. , 2020, 16, e1008689.		0
9	A Rad51-independent pathway promotes single-strand template repair in gene editing. , 2020, 16, e1008689.		0
10	A Rad51-independent pathway promotes single-strand template repair in gene editing. , 2020, 16, e1008689.		0
11	A Rad51-independent pathway promotes single-strand template repair in gene editing. , 2020, 16, e1008689.		0
12	Rad52 Restrains Resection at DNA Double-Strand Break Ends in Yeast. Molecular Cell, 2019, 76, 699-711.e6.	9.7	37
13	Guidelines for DNA recombination and repair studies: Cellular assays of DNA repair pathways. Microbial Cell, 2019, 6, 1-64.	3.2	47
14	Megabase Length Hypermutation Accompanies Human Structural Variation at 17p11.2. Cell, 2019, 176, 1310-1324.e10.	28.9	73
15	Dna2 nuclease deficiency results in large and complex DNA insertions at chromosomal breaks. Nature, 2018, 564, 287-290.	27.8	33
16	Bre1-dependent H2B ubiquitination promotes homologous recombination by stimulating histone eviction at DNA breaks. Nucleic Acids Research, 2018, 46, 11326-11339.	14.5	37
17	Predicting human genes susceptible to genomic instability associated with <i>Alu</i>/<i>Alu</i>-mediated rearrangements. Genome Research, 2018, 28, 1228-1242.	5.5	74
18	A novel role of the Dna2 translocase function in DNA break resection. Genes and Development, 2017, 31, 503-510.	5.9	33

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19	Yeast Sub1 and human PC4 are G-quadruplex binding proteins that suppress genome instability at co-transcriptionally formed G4 DNA. Nucleic Acids Research, 2017, 45, 5850-5862.	14.5	41
20	MRE11 and EXO1 nucleases degrade reversed forks and elicit MUS81-dependent fork rescue in BRCA2-deficient cells. Nature Communications, 2017, 8, 860.	12.8	311
21	Role of the Pif1-PCNA Complex in Pol Î´-Dependent Strand Displacement DNA Synthesis and Break-Induced Replication. Cell Reports, 2017, 21, 1707-1714.	6.4	62
22	Break-induced replication promotes formation of lethal joint molecules dissolved by Srs2. Nature Communications, 2017, 8, 1790.	12.8	55
23	Enrichment of Cdk1-cyclins at DNA double-strand breaks stimulates Fun30 phosphorylation and DNA end resection. Nucleic Acids Research, 2016, 44, 2742-2753.	14.5	39
24	Differential regulation of the anti-crossover and replication fork regression activities of Mph1 by Mte1. Genes and Development, 2016, 30, 687-699.	5.9	17
25	Translesion Polymerases Drive Microhomology-Mediated Break-Induced Replication Leading to Complex Chromosomal Rearrangements. Molecular Cell, 2015, 60, 860-872.	9.7	112
26	Selective modulation of the functions of a conserved DNA motor by a histone fold complex. Genes and Development, 2015, 29, 1000-1005.	5.9	17
27	Absence of Heterozygosity Due to Template Switching during Replicative Rearrangements. American Journal of Human Genetics, 2015, 96, 555-564.	6.2	45
28	Mus81 and converging forks limit the mutagenicity of replication fork breakage. Science, 2015, 349, 742-747.	12.6	162
29	A new Riff: Rif1 eats its cake and has it too. EMBO Reports, 2014, 15, 622-4.	4.5	5
30	Pif1 helicase and PolÎ´ promote recombination-coupled DNA synthesis via bubble migration. Nature, 2013, 502, 393-396.	27.8	265
31	Migrating bubble during break-induced replication drives conservative DNA synthesis. Nature, 2013, 502, 389-392.	27.8	277
32	Break-induced replication: functions and molecular mechanism. Current Opinion in Genetics and Development, 2013, 23, 271-279.	3.3	156
33	Human Nuclease/Helicase DNA2 Alleviates Replication Stress by Promoting DNA End Resection. Cancer Research, 2012, 72, 2802-2813.	0.9	63
34	The Fun30 nucleosome remodeller promotes resection of DNA double-strand break ends. Nature, 2012, 489, 576-580.	27.8	219
35	DNA breakage drives nuclear search. Nature Cell Biology, 2012, 14, 448-450.	10.3	6
36	Mechanism and Regulation of the Helicaseâ€driven Path of DNA End Resection in Saccharomyces cerevisiae. FASEB Journal, 2012, 26, 536.7.	0.5	0

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37	RSC Facilitates Rad59-Dependent Homologous Recombination between Sister Chromatids by Promoting Cohesin Loading at DNA Double-Strand Breaks. Molecular and Cellular Biology, 2011, 31, 3924-3937.	2.3	45
38	Cell cycle regulation of DNA double-strand break end resection by Cdk1-dependent Dna2 phosphorylation. Nature Structural and Molecular Biology, 2011, 18, 1015-1019.	8.2	165
39	Saccharomyces cerevisiae Mre11/Rad50/Xrs2 and Ku proteins regulate association of Exo1 and Dna2 with DNA breaks. EMBO Journal, 2010, 29, 3370-3380.	7.8	197
40	Mechanism of the ATP-dependent DNA end-resection machinery from Saccharomyces cerevisiae. Nature, 2010, 467, 108-111.	27.8	349
41	Defective Resection at DNA Double-Strand Breaks Leads to De Novo Telomere Formation and Enhances Gene Targeting. PLoS Genetics, 2010, 6, e1000948.	3.5	147
42	A Microhomology-Mediated Break-Induced Replication Model for the Origin of Human Copy Number Variation. PLoS Genetics, 2009, 5, e1000327.	3.5	700
43	Yeast Mph1 helicase dissociates Rad51-made D-loops: implications for crossover control in mitotic recombination. Genes and Development, 2009, 23, 67-79.	5.9	226
44	Mechanisms of change in gene copy number. Nature Reviews Genetics, 2009, 10, 551-564.	16.3	1,066
45	Sgs1 Helicase and Two Nucleases Dna2 and Exo1 Resect DNA Double-Strand Break Ends. Cell, 2008, 134, 981-994.	28.9	915
46	Conservative Inheritance of Newly Synthesized DNA in Double-Strand Break-Induced Gene Conversion. Molecular and Cellular Biology, 2006, 26, 9424-9429.	2.3	56
47	RAD51 -Dependent Break-Induced Replication Differs in Kinetics and Checkpoint Responses from RAD51 -Mediated Gene Conversion. Molecular and Cellular Biology, 2005, 25, 933-944.	2.3	157
48	Role of DNA Replication Proteins in Double-Strand Break-Induced Recombination in Saccharomyces cerevisiae. Molecular and Cellular Biology, 2004, 24, 6891-6899.	2.3	118
49	DNA end resection, homologous recombination and DNA damage checkpoint activation require CDK1. Nature, 2004, 431, 1011-1017.	27.8	641
50	Distribution and Dynamics of Chromatin Modification Induced by a Defined DNA Double-Strand Break. Current Biology, 2004, 14, 1703-1711.	3.9	458
51	Srs2 and Sgs1â€“Top3 Suppress Crossovers during Double-Strand Break Repair in Yeast. Cell, 2003, 115, 401-411.	28.9	539
52	Characterization of RAD51 -Independent Break-Induced Replication That Acts Preferentially with Short Homologous Sequences. Molecular and Cellular Biology, 2002, 22, 6384-6392.	2.3	172
53	Recovery from Checkpoint-Mediated Arrest after Repair of a Double-Strand Break Requires Srs2 Helicase. Molecular Cell, 2002, 10, 373-385.	9.7	310
54	DNA Length Dependence of the Single-Strand Annealing Pathway and the Role of Saccharomyces cerevisiae RAD59 in Double-Strand Break Repair. Molecular and Cellular Biology, 2000, 20, 5300-5309.	2.3	264