

# John Francis Xavier Diffley

## List of Publications by Year in descending order

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48  
papers

6,811  
citations

117625

34  
h-index

206112

48  
g-index

59  
all docs

59  
docs citations

59  
times ranked

3980  
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of DNA replication fork progression through damaged DNA by the Mec1/Rad53 checkpoint. <i>Nature</i> , 2001, 412, 553-557.	27.8	622
2	A Mec1- and Rad53-dependent checkpoint controls late-firing origins of DNA replication. <i>Nature</i> , 1998, 395, 615-618.	27.8	602
3	Concerted Loading of Mcm2â€“7 Double Hexamers around DNA during DNA Replication Origin Licensing. <i>Cell</i> , 2009, 139, 719-730.	28.9	560
4	Regulated eukaryotic DNA replication origin firing with purified proteins. <i>Nature</i> , 2015, 519, 431-435.	27.8	441
5	Phosphorylation of Sld2 and Sld3 by cyclin-dependent kinases promotes DNA replication in budding yeast. <i>Nature</i> , 2007, 445, 281-285.	27.8	438
6	A Central Role for DNA Replication Forks in Checkpoint Activation and Response. <i>Molecular Cell</i> , 2003, 11, 1323-1336.	9.7	366
7	How the Eukaryotic Replisome Achieves Rapid and Efficient DNA Replication. <i>Molecular Cell</i> , 2017, 65, 105-116.	9.7	291
8	Checkpoint-dependent inhibition of DNA replication initiation by Sld3 and Dbf4 phosphorylation. <i>Nature</i> , 2010, 467, 474-478.	27.8	261
9	Interdependent nuclear accumulation of budding yeast Cdt1 and Mcm2â€“7 during G1 phase. <i>Nature Cell Biology</i> , 2002, 4, 198-207.	10.3	245
10	Eukaryotic DNA replication control: Lock and load, then fire. <i>Current Opinion in Cell Biology</i> , 2009, 21, 771-777.	5.4	223
11	Chromatin Controls DNA Replication Origin Selection, Lagging-Strand Synthesis, and Replication Fork Rates. <i>Molecular Cell</i> , 2017, 65, 117-130.	9.7	211
12	Regulating DNA Replication in Eukarya. <i>Cold Spring Harbor Perspectives in Biology</i> , 2013, 5, a012930-a012930.	5.5	206
13	The mechanism of eukaryotic CMG helicase activation. <i>Nature</i> , 2018, 555, 265-268.	27.8	196
14	ATPase-dependent quality control of DNA replication origin licensing. <i>Nature</i> , 2013, 495, 339-343.	27.8	181
15	Separate roles for the DNA damage checkpoint protein kinases in stabilizing DNA replication forks. <i>Genes and Development</i> , 2008, 22, 1816-1827.	5.9	146
16	MCM: one ring to rule them all. <i>Current Opinion in Structural Biology</i> , 2016, 37, 145-151.	5.7	143
17	Controlling DNA replication origins in response to DNA damage â€“ inhibit globally, activate locally. <i>Journal of Cell Science</i> , 2013, 126, 1297-1306.	2.0	118
18	DNA replication as a target of the DNA damage checkpoint. <i>DNA Repair</i> , 2009, 8, 1077-1088.	2.8	105

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19	Mechanism of head-to-head MCM double-hexamer formation revealed by cryo-EM. <i>Nature</i> , 2019, 575, 704-710.	27.8	105
20	Origin Licensing Requires ATP Binding and Hydrolysis by the MCM Replicative Helicase. <i>Molecular Cell</i> , 2014, 55, 666-677.	9.7	104
21	Bidirectional eukaryotic DNA replication is established by quasi-symmetrical helicase loading. <i>Science</i> , 2017, 357, 314-318.	12.6	100
22	Phosphorylation-dependent binding of mitotic cyclins to Cdc6 contributes to DNA replication control. <i>Nature</i> , 2004, 431, 1118-1123.	27.8	99
23	Structure of DNA-CMG-Pol epsilon elucidates the roles of the non-catalytic polymerase modules in the eukaryotic replisome. <i>Nature Communications</i> , 2018, 9, 5061.	12.8	96
24	CMG-Pol epsilon dynamics suggests a mechanism for the establishment of leading-strand synthesis in the eukaryotic replisome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4141-4146.	7.1	88
25	Activation of the replicative DNA helicase: breaking up is hard to do. <i>Current Opinion in Cell Biology</i> , 2012, 24, 423-430.	5.4	79
26	Prereplicative complexes assembled in vitro support origin-dependent and independent DNA replication. <i>EMBO Journal</i> , 2014, 33, 605-620.	7.8	76
27	Cryo-EM structure of a licensed DNA replication origin. <i>Nature Communications</i> , 2017, 8, 2241.	12.8	75
28	Cdt1 stabilizes an open MCM ring for helicase loading. <i>Nature Communications</i> , 2017, 8, 15720.	12.8	69
29	The Initiation of Eukaryotic DNA Replication. <i>Annual Review of Biochemistry</i> , 2022, 91, 107-131.	11.1	68
30	Identifying SARS-CoV-2 antiviral compounds by screening for small molecule inhibitors of Nsp3 papain-like protease. <i>Biochemical Journal</i> , 2021, 478, 2517-2531.	3.7	49
31	Recruitment of Mcm10 to Sites of Replication Initiation Requires Direct Binding to the Minichromosome Maintenance (MCM) Complex. <i>Journal of Biological Chemistry</i> , 2016, 291, 5879-5888.	3.4	47
32	Identifying SARS-CoV-2 antiviral compounds by screening for small molecule inhibitors of Nsp5 main protease. <i>Biochemical Journal</i> , 2021, 478, 2499-2515.	3.7	46
33	Identifying SARS-CoV-2 antiviral compounds by screening for small molecule inhibitors of nsp13 helicase. <i>Biochemical Journal</i> , 2021, 478, 2405-2423.	3.7	46
34	Identifying SARS-CoV-2 antiviral compounds by screening for small molecule inhibitors of nsp15 endoribonuclease. <i>Biochemical Journal</i> , 2021, 478, 2465-2479.	3.7	43
35	Identifying SARS-CoV-2 antiviral compounds by screening for small molecule inhibitors of Nsp14 RNA cap methyltransferase. <i>Biochemical Journal</i> , 2021, 478, 2481-2497.	3.7	39
36	Mechanism of replication origin melting nucleated by CMG helicase assembly. <i>Nature</i> , 2022, 606, 1007-1014.	27.8	34

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37	Identifying SARS-CoV-2 antiviral compounds by screening for small molecule inhibitors of nsp14/nsp10 exoribonuclease. <i>Biochemical Journal</i> , 2021, 478, 2445-2464.	3.7	32
38	Rad53 checkpoint kinase regulation of DNA replication fork rate via Mrc1 phosphorylation. <i>ELife</i> , 2021, 10, .	6.0	29
39	Identifying SARS-CoV-2 antiviral compounds by screening for small molecule inhibitors of nsp12/7/8 RNA-dependent RNA polymerase. <i>Biochemical Journal</i> , 2021, 478, 2425-2443.	3.7	26
40	DNA replication origins retain mobile licensing proteins. <i>Nature Communications</i> , 2021, 12, 1908.	12.8	24
41	Structural mechanism for the selective phosphorylation of DNA-loaded MCM double hexamers by the Dbf4-dependent kinase. <i>Nature Structural and Molecular Biology</i> , 2022, 29, 10-20.	8.2	21
42	Budding yeast Rap1, but not telomeric DNA, is inhibitory for multiple stages of DNA replication in vitro. <i>Nucleic Acids Research</i> , 2021, 49, 5671-5683.	14.5	12
43	Eukaryotic DNA replication with purified budding yeast proteins. <i>Methods in Enzymology</i> , 2021, 661, 1-33.	1.0	10
44	Rpd3L Contributes to the DNA Damage Sensitivity of <i>Saccharomyces cerevisiae</i> Checkpoint Mutants. <i>Genetics</i> , 2019, 211, 503-513.	2.9	9
45	Author's overview: identifying SARS-CoV-2 antiviral compounds. <i>Biochemical Journal</i> , 2021, 478, 2533-2535.	3.7	6
46	Cdc6 is sequentially regulated by PP2A-Cdc55, Cdc14, and Sic1 for origin licensing in <i>S. cerevisiae</i> . <i>ELife</i> , 2022, 11, .	6.0	6
47	Unchecked nick ligation can promote localized genome re-replication. <i>Current Biology</i> , 2021, 31, R710-R711.	3.9	3
48	An improved method for the incorporation of fluoromethyl ketones into solid phase peptide synthesis techniques. <i>RSC Advances</i> , 2021, 11, 20457-20464.	3.6	2