

Niels Mailand

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

7,785

citations

40

h-index

71

g-index

71

ext. papers

8,961

ext. citations

17.6

avg, IF

5.8

L-index

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 66 | RNF8 ubiquitylates histones at DNA double-strand breaks and promotes assembly of repair proteins. <i>Cell</i> , 2007 , 131, 887-900 | 56.2 | 914 |
| 65 | RNF168 binds and amplifies ubiquitin conjugates on damaged chromosomes to allow accumulation of repair proteins. <i>Cell</i> , 2009 , 136, 435-46 | 56.2 | 683 |
| 64 | ATR prohibits replication catastrophe by preventing global exhaustion of RPA. <i>Cell</i> , 2013 , 155, 1088-103 | 56.2 | 502 |
| 63 | The ubiquitin ligase XIAP recruits LUBAC for NOD2 signaling in inflammation and innate immunity. <i>Molecular Cell</i> , 2012 , 46, 746-58 | 17.6 | 272 |
| 62 | Centrosome-associated Chk1 prevents premature activation of cyclin-B-Cdk1 kinase. <i>Nature Cell Biology</i> , 2004 , 6, 884-91 | 23.4 | 271 |
| 61 | Assembly and function of DNA double-strand break repair foci in mammalian cells. <i>DNA Repair</i> , 2010 , 9, 1219-28 | 4.3 | 260 |
| 60 | Histone H1 couples initiation and amplification of ubiquitin signalling after DNA damage. <i>Nature</i> , 2015 , 527, 389-93 | 50.4 | 252 |
| 59 | Regulation of PCNA-protein interactions for genome stability. <i>Nature Reviews Molecular Cell Biology</i> , 2013 , 14, 269-82 | 48.7 | 249 |
| 58 | Mass spectrometric analysis of lysine ubiquitylation reveals promiscuity at site level. <i>Molecular and Cellular Proteomics</i> , 2011 , 10, M110.003590 | 7.6 | 241 |
| 57 | TRIP12 and UBR5 suppress spreading of chromatin ubiquitylation at damaged chromosomes. <i>Cell</i> , 2012 , 150, 697-709 | 56.2 | 224 |
| 56 | DNA Repair Network Analysis Reveals Shieldin as a Key Regulator of NHEJ and PARP Inhibitor Sensitivity. <i>Cell</i> , 2018 , 173, 972-988.e23 | 56.2 | 213 |
| 55 | HERC2 coordinates ubiquitin-dependent assembly of DNA repair factors on damaged chromosomes. <i>Nature Cell Biology</i> , 2010 , 12, 80-6; sup pp 1-12 | 23.4 | 213 |
| 54 | Regulation of DNA double-strand break repair by ubiquitin and ubiquitin-like modifiers. <i>Nature Reviews Molecular Cell Biology</i> , 2016 , 17, 379-94 | 48.7 | 207 |
| 53 | Systems-wide analysis of ubiquitylation dynamics reveals a key role for PAF15 ubiquitylation in DNA-damage bypass. <i>Nature Cell Biology</i> , 2012 , 14, 1089-98 | 23.4 | 195 |
| 52 | The ubiquitin-selective segregase VCP/p97 orchestrates the response to DNA double-strand breaks. <i>Nature Cell Biology</i> , 2011 , 13, 1376-82 | 23.4 | 194 |
| 51 | Phosphorylation of SDT repeats in the MDC1 N terminus triggers retention of NBS1 at the DNA damage-modified chromatin. <i>Journal of Cell Biology</i> , 2008 , 181, 213-26 | 7.3 | 178 |
| 50 | OTULIN restricts Met1-linked ubiquitination to control innate immune signaling. <i>Molecular Cell</i> , 2013 , 50, 818-830 | 17.6 | 157 |

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|----|---|------|-----|
| 49 | Nucleotide excision repair-induced H2A ubiquitination is dependent on MDC1 and RNF8 and reveals a universal DNA damage response. <i>Journal of Cell Biology</i> , 2009 , 186, 835-47 | 7.3 | 150 |
| 48 | Activation of the ATR kinase by the RPA-binding protein ETAA1. <i>Nature Cell Biology</i> , 2016 , 18, 1196-1207 | 23.4 | 137 |
| 47 | DVC1 (C1orf124) is a DNA damage-targeting p97 adaptor that promotes ubiquitin-dependent responses to replication blocks. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 1084-92 | 17.6 | 135 |
| 46 | Ago2 facilitates Rad51 recruitment and DNA double-strand break repair by homologous recombination. <i>Cell Research</i> , 2014 , 24, 532-41 | 24.7 | 132 |
| 45 | Molecular basis and regulation of OTULIN-LUBAC interaction. <i>Molecular Cell</i> , 2014 , 54, 335-48 | 17.6 | 128 |
| 44 | H4K20me0 marks post-replicative chromatin and recruits the TONSL/MMS22L DNA repair complex. <i>Nature</i> , 2016 , 534, 714-718 | 50.4 | 120 |
| 43 | DNA repair. Proteomics reveals dynamic assembly of repair complexes during bypass of DNA cross-links. <i>Science</i> , 2015 , 348, 1253-671 | 33.3 | 116 |
| 42 | RNF111/Arkadia is a SUMO-targeted ubiquitin ligase that facilitates the DNA damage response. <i>Journal of Cell Biology</i> , 2013 , 201, 797-807 | 7.3 | 110 |
| 41 | Poly(ADP-ribosylation) links the chromatin remodeler SMARCA5/SNF2H to RNF168-dependent DNA damage signaling. <i>Journal of Cell Science</i> , 2013 , 126, 889-903 | 5.3 | 103 |
| 40 | The deubiquitylating enzyme USP44 counteracts the DNA double-strand break response mediated by the RNF8 and RNF168 ubiquitin ligases. <i>Journal of Biological Chemistry</i> , 2013 , 288, 16579-16587 | 5.4 | 94 |
| 39 | Human RNF169 is a negative regulator of the ubiquitin-dependent response to DNA double-strand breaks. <i>Journal of Cell Biology</i> , 2012 , 197, 189-99 | 7.3 | 93 |
| 38 | DNA damage-inducible SUMOylation of HERC2 promotes RNF8 binding via a novel SUMO-binding Zinc finger. <i>Journal of Cell Biology</i> , 2012 , 197, 179-87 | 7.3 | 93 |
| 37 | The ubiquitin- and SUMO-dependent signaling response to DNA double-strand breaks. <i>FEBS Letters</i> , 2011 , 585, 2914-9 | 3.8 | 92 |
| 36 | A new cellular stress response that triggers centriolar satellite reorganization and ciliogenesis. <i>EMBO Journal</i> , 2013 , 32, 3029-40 | 13 | 90 |
| 35 | Ubiquitin-SUMO circuitry controls activated fanconi anemia ID complex dosage in response to DNA damage. <i>Molecular Cell</i> , 2015 , 57, 150-64 | 17.6 | 89 |
| 34 | A new non-catalytic role for ubiquitin ligase RNF8 in unfolding higher-order chromatin structure. <i>EMBO Journal</i> , 2012 , 31, 2511-27 | 13 | 85 |
| 33 | Human Fbh1 helicase contributes to genome maintenance via pro- and anti-recombinase activities. <i>Journal of Cell Biology</i> , 2009 , 186, 655-63 | 7.3 | 75 |
| 32 | Centriolar satellites: key mediators of centrosome functions. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 11-23 | 10.3 | 73 |

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|----|--|------|----|
| 31 | SUMO and ubiquitin-dependent XPC exchange drives nucleotide excision repair. <i>Nature Communications</i> , 2015 , 6, 7499 | 17.4 | 71 |
| 30 | ZUFSP Deubiquitylates K63-Linked Polyubiquitin Chains to Promote Genome Stability. <i>Molecular Cell</i> , 2018 , 70, 165-174.e6 | 17.6 | 52 |
| 29 | TRAIP is a PCNA-binding ubiquitin ligase that protects genome stability after replication stress. <i>Journal of Cell Biology</i> , 2016 , 212, 63-75 | 7.3 | 49 |
| 28 | SUMOylation promotes protective responses to DNA-protein crosslinks. <i>EMBO Journal</i> , 2019 , 38, | 13 | 47 |
| 27 | Lamin A/C-dependent interaction with 53BP1 promotes cellular responses to DNA damage. <i>Aging Cell</i> , 2015 , 14, 162-9 | 9.9 | 43 |
| 26 | p38-MK2 signaling axis regulates RNA metabolism after UV-light-induced DNA damage. <i>Nature Communications</i> , 2018 , 9, 1017 | 17.4 | 33 |
| 25 | p38- and MK2-dependent signalling promotes stress-induced centriolar satellite remodelling via 14-3-3-dependent sequestration of CEP131/AZI1. <i>Nature Communications</i> , 2015 , 6, 10075 | 17.4 | 33 |
| 24 | UBL5 is essential for pre-mRNA splicing and sister chromatid cohesion in human cells. <i>EMBO Reports</i> , 2014 , 15, 956-64 | 6.5 | 31 |
| 23 | TRAIP drives replisome disassembly and mitotic DNA repair synthesis at sites of incomplete DNA replication. <i>ELife</i> , 2019 , 8, | 8.9 | 30 |
| 22 | Proteome-wide analysis of SUMO2 targets in response to pathological DNA replication stress in human cells. <i>DNA Repair</i> , 2015 , 25, 84-96 | 4.3 | 28 |
| 21 | Writers, Readers, and Erasers of Histone Ubiquitylation in DNA Double-Strand Break Repair. <i>Frontiers in Genetics</i> , 2016 , 7, 122 | 4.5 | 26 |
| 20 | GIGYF1/2-Driven Cooperation between ZNF598 and TTP in Posttranscriptional Regulation of Inflammatory Signaling. <i>Cell Reports</i> , 2019 , 26, 3511-3521.e4 | 10.6 | 24 |
| 19 | SCAI promotes DNA double-strand break repair in distinct chromosomal contexts. <i>Nature Cell Biology</i> , 2016 , 18, 1357-1366 | 23.4 | 22 |
| 18 | RNF8 and RNF168 but not HERC2 are required for DNA damage-induced ubiquitylation in chicken DT40 cells. <i>DNA Repair</i> , 2012 , 11, 892-905 | 4.3 | 19 |
| 17 | RADX interacts with single-stranded DNA to promote replication fork stability. <i>EMBO Reports</i> , 2017 , 18, 1991-2003 | 6.5 | 18 |
| 16 | The p97-Ataxin 3 complex regulates homeostasis of the DNA damage response E3 ubiquitin ligase RNF8. <i>EMBO Journal</i> , 2019 , 38, e102361 | 13 | 18 |
| 15 | Proteome dynamics at broken replication forks reveal a distinct ATM-directed repair response suppressing DNA double-strand break ubiquitination. <i>Molecular Cell</i> , 2021 , 81, 1084-1099.e6 | 17.6 | 17 |
| 14 | Structural Analysis of a Complex between Small Ubiquitin-like Modifier 1 (SUMO1) and the ZZ Domain of CREB-binding Protein (CBP/p300) Reveals a New Interaction Surface on SUMO. <i>Journal of Biological Chemistry</i> , 2016 , 291, 12658-12672 | 5.4 | 16 |

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|----|--|------|----|
| 13 | Ubiquitin-like protein UBL5 promotes the functional integrity of the Fanconi anemia pathway. <i>EMBO Journal</i> , 2015 , 34, 1385-98 | 13 | 11 |
| 12 | The ubiquitin ligase RFD3 is required for translesion DNA synthesis. <i>Molecular Cell</i> , 2021 , 81, 442-458.e9.6 | 9.6 | 11 |
| 11 | Regulation of ETAA1-mediated ATR activation couples DNA replication fidelity and genome stability. <i>Journal of Cell Biology</i> , 2019 , 218, 3943-3953 | 7.3 | 9 |
| 10 | FAM111 protease activity undermines cellular fitness and is amplified by gain-of-function mutations in human disease. <i>EMBO Reports</i> , 2020 , 21, e50662 | 6.5 | 9 |
| 9 | Multisite SUMOylation restrains DNA polymerase β interactions with DNA damage sites. <i>Journal of Biological Chemistry</i> , 2020 , 295, 8350-8362 | 5.4 | 8 |
| 8 | Mechanism and function of DNA replication-independent DNA-protein crosslink repair via the SUMO-RNF4 pathway. <i>EMBO Journal</i> , 2021 , 40, e107413 | 13 | 4 |
| 7 | Ubiquitylation at Stressed Replication Forks: Mechanisms and Functions. <i>Trends in Cell Biology</i> , 2021 , 31, 584-597 | 18.3 | 3 |
| 6 | RNF138 joins the HR team. <i>Nature Cell Biology</i> , 2015 , 17, 1375-7 | 23.4 | 2 |
| 5 | SLX4: not SIMply a nuclease scaffold?. <i>Molecular Cell</i> , 2015 , 57, 3-5 | 17.6 | 2 |
| 4 | An unorthodox partnership in DNA repair pathway choice. <i>EMBO Reports</i> , 2019 , 20, e49105 | 6.5 | 2 |
| 3 | SCAI promotes error-free repair of DNA interstrand crosslinks via the Fanconi anemia pathway.. <i>EMBO Reports</i> , 2022 , e53639 | 6.5 | 1 |
| 2 | K27-linked ubiquitylation promotes p97 substrate processing and is essential for cell proliferation.. <i>EMBO Journal</i> , 2022 , e110145 | 13 | 0 |
| 1 | TRAIPI is a PCNA-binding ubiquitin ligase that protects genome stability after replication stress. <i>Journal of Experimental Medicine</i> , 2016 , 213, 2131OIA127 | 16.6 | |