

Marcin Nowotny

List of Publications by Year in descending order

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45
papers

3,234
citations

304743

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276875

41
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docs citations

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times ranked

3498
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Structures of RNase H Bound to an RNA/DNA Hybrid: Substrate Specificity and Metal-Dependent Catalysis. <i>Cell</i> , 2005, 121, 1005-1016.	28.9	552
2	Making and Breaking Nucleic Acids: Two-Mg ²⁺ -Ion Catalysis and Substrate Specificity. <i>Molecular Cell</i> , 2006, 22, 5-13.	9.7	495
3	Structure of Human RNase H1 Complexed with an RNA/DNA Hybrid: Insight into HIV Reverse Transcription. <i>Molecular Cell</i> , 2007, 28, 264-276.	9.7	282
4	Stepwise analyses of metal ions in RNase H catalysis from substrate destabilization to product release. <i>EMBO Journal</i> , 2006, 25, 1924-1933.	7.8	225
5	Retroviral integrase superfamily: the structural perspective. <i>EMBO Reports</i> , 2009, 10, 144-151.	4.5	173
6	Catalytic Mechanism of RNA Backbone Cleavage by Ribonuclease H from Quantum Mechanics/Molecular Mechanics Simulations. <i>Journal of the American Chemical Society</i> , 2011, 133, 8934-8941.	13.7	164
7	The RNase H-like superfamily: new members, comparative structural analysis and evolutionary classification. <i>Nucleic Acids Research</i> , 2014, 42, 4160-4179.	14.5	135
8	RNase H2 roles in genome integrity revealed by unlinking its activities. <i>Nucleic Acids Research</i> , 2013, 41, 3130-3143.	14.5	124
9	RNases H: Structure and mechanism. <i>DNA Repair</i> , 2019, 84, 102672.	2.8	96
10	Specific recognition of RNA/DNA hybrid and enhancement of human RNase H1 activity by HBD. <i>EMBO Journal</i> , 2008, 27, 1172-1181.	7.8	91
11	Crystal Structures of RNase H2 in Complex with Nucleic Acid Reveal the Mechanism of RNA-DNA Junction Recognition and Cleavage. <i>Molecular Cell</i> , 2010, 40, 658-670.	9.7	90
12	Single-molecule imaging of UvrA and UvrB recruitment to DNA lesions in living <i>Escherichia coli</i> . <i>Nature Communications</i> , 2016, 7, 12568.	12.8	88
13	Structure of UvrA nucleotide excision repair protein in complex with modified DNA. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 191-197.	8.2	75
14	Crystal structure of RuvC resolvase in complex with Holliday junction substrate. <i>Nucleic Acids Research</i> , 2013, 41, 9945-9955.	14.5	61
15	The Structural and Biochemical Characterization of Human RNase H2 Complex Reveals the Molecular Basis for Substrate Recognition and Aicardi-Gouti�res Syndrome Defects. <i>Journal of Biological Chemistry</i> , 2011, 286, 10540-10550.	3.4	56
16	Origins of the Increased Affinity of Phosphorothioate-Modified Therapeutic Nucleic Acids for Proteins. <i>Journal of the American Chemical Society</i> , 2020, 142, 7456-7468.	13.7	56
17	Structural and functional modules in RNA interference. <i>Current Opinion in Structural Biology</i> , 2009, 19, 286-293.	5.7	50
18	Natural Compounds Inhibit SARS-CoV-2 nsp13 Unwinding and ATPase Enzyme Activities. <i>ACS Pharmacology and Translational Science</i> , 2022, 5, 226-239.	4.9	43

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19	Structural analysis of monomeric retroviral reverse transcriptase in complex with an RNA/DNA hybrid. <i>Nucleic Acids Research</i> , 2013, 41, 3874-3887.	14.5	42
20	Ty3 reverse transcriptase complexed with an RNA-DNA hybrid shows structural and functional asymmetry. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 389-396.	8.2	31
21	Structural and Mechanistic Analysis of the Slx1-Slx4 Endonuclease. <i>Cell Reports</i> , 2015, 10, 1467-1476.	6.4	28
22	Coordination between the polymerase and RNase H activity of HIV-1 reverse transcriptase. <i>Nucleic Acids Research</i> , 2017, 45, gkx004.	14.5	28
23	Crystal structure of the catalytic core of Rad2: insights into the mechanism of substrate binding. <i>Nucleic Acids Research</i> , 2014, 42, 10762-10775.	14.5	24
24	Structural analysis of mtEXO mitochondrial RNA degradosome reveals tight coupling of nuclease and helicase components. <i>Nature Communications</i> , 2018, 9, 97.	12.8	23
25	RuvC uses dynamic probing of the Holliday junction to achieve sequence specificity and efficient resolution. <i>Nature Communications</i> , 2019, 10, 4102.	12.8	23
26	Mechanism of polypurine tract primer generation by HIV-1 reverse transcriptase. <i>Journal of Biological Chemistry</i> , 2018, 293, 191-202.	3.4	21
27	Crystal structure of RNase H3 substrate complex reveals parallel evolution of RNA/DNA hybrid recognition. <i>Nucleic Acids Research</i> , 2014, 42, 9285-9294.	14.5	18
28	Discovery of OATD-01, a First-in-Class Chitinase Inhibitor as Potential New Therapeutics for Idiopathic Pulmonary Fibrosis. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 15527-15540.	6.4	18
29	Structural basis of transposon end recognition explains central features of Tn7 transposition systems. <i>Molecular Cell</i> , 2022, 82, 2618-2632.e7.	9.7	18
30	Structural Insights into the Interaction of Clinically Relevant Phosphorothioate mRNA Cap Analogs with Translation Initiation Factor 4E Reveal Stabilization via Electrostatic Thio-Effect. <i>ACS Chemical Biology</i> , 2021, 16, 334-343.	3.4	16
31	The expression of Rpb10, a small subunit common to RNA polymerases, is modulated by the R3H domain-containing Rbs1 protein and the Upf1 helicase. <i>Nucleic Acids Research</i> , 2020, 48, 12252-12268.	14.5	15
32	A combined structural and biochemical approach reveals translocation and stalling of UvrB on the DNA lesion as a mechanism of damage verification in bacterial nucleotide excision repair. <i>DNA Repair</i> , 2020, 85, 102746.	2.8	13
33	Structure of Human RNase H1 Complexed with an RNA/DNA Hybrid: Insight into HIV Reverse Transcription. <i>Molecular Cell</i> , 2007, 28, 513.	9.7	12
34	Structure and mechanism of nucleases regulated by SLX4. <i>Current Opinion in Structural Biology</i> , 2016, 36, 97-105.	5.7	11
35	Recognition and processing of branched DNA substrates by Slx1-Slx4 nuclease. <i>Nucleic Acids Research</i> , 2019, 47, 11681-11690.	14.5	10
36	A heterotypic assembly mechanism regulates CHIP E3 ligase activity. <i>EMBO Journal</i> , 2022, 41,	7.8	9

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37	Reverse Transcriptases. <i>Nucleic Acids and Molecular Biology</i> , 2014, , 189-214.	0.2	7
38	Disulfide bridge cross-linking between protein and the RNA backbone as a tool to study RNase H1. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115741.	3.0	4
39	The Pet127 protein is a mitochondrial 5' to 3' exoribonuclease from the PD-(D/E)XK superfamily involved in RNA maturation and intron degradation in yeasts. <i>Rna</i> , 2022, 28, 711-728.	3.5	3
40	Structure and mechanism of CutA, RNA nucleotidyl transferase with an unusual preference for cytosine. <i>Nucleic Acids Research</i> , 2020, 48, 9387-9405.	14.5	2
41	Structures of Substrate Complexes of Foamy Viral Protease-Reverse Transcriptase. <i>Journal of Virology</i> , 2021, 95, e0084821.	3.4	2
42	Novel insights from structural analysis of lentiviral and gammaretroviral reverse transcriptases in complex with RNA/DNA hybrids. <i>Retrovirology</i> , 2013, 10, .	2.0	0
43	Structural Studies of RNases H2 as an Example of Crystal Structure Determination of Protein-Nucleic Acid Complexes. <i>Methods in Enzymology</i> , 2017, 592, 123-143.	1.0	0
44	Crosslink and shield: protecting abasic sites from error-prone repair. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 530-532.	8.2	0
45	The RNase H Domain: Structure, Function and Mechanism. , 2013, , 53-75.		0