

Leemor Joshua-Tor

List of Publications by Year in descending order

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57631

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docs citations

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times ranked

12282
citing authors

#	ARTICLE	IF	CITATIONS
1	Argonaute2 Is the Catalytic Engine of Mammalian RNAi. <i>Science</i> , 2004, 305, 1437-1441.	6.0	2,370
2	Crystal Structure of Argonaute and Its Implications for RISC Slicer Activity. <i>Science</i> , 2004, 305, 1434-1437.	6.0	1,283
3	Purified Argonaute2 and an siRNA form recombinant human RISC. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 340-349.	3.6	658
4	Analysis of the <i>C. elegans</i> Argonaute Family Reveals that Distinct Argonautes Act Sequentially during RNAi. <i>Cell</i> , 2006, 127, 747-757.	13.5	576
5	The Structure of Human Argonaute-2 in Complex with miR-20a. <i>Cell</i> , 2012, 150, 100-110.	13.5	517
6	The crystal structure of the Argonaute2 PAZ domain reveals an RNA binding motif in RNAi effector complexes. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 1026-1032.	3.6	487
7	Mechanism of DNA translocation in a replicative hexameric helicase. <i>Nature</i> , 2006, 442, 270-275.	13.7	472
8	Slicer and the Argonautes. <i>Nature Chemical Biology</i> , 2007, 3, 36-43.	3.9	410
9	A triple helix stabilizes the 3' ends of long noncoding RNAs that lack poly(A) tails. <i>Genes and Development</i> , 2012, 26, 2392-2407.	2.7	375
10	Structural Basis for the EBA-175 Erythrocyte Invasion Pathway of the Malaria Parasite <i>Plasmodium falciparum</i> . <i>Cell</i> , 2005, 122, 183-193.	13.5	289
11	The structural biochemistry of Zucchini implicates it as a nuclease in piRNA biogenesis. <i>Nature</i> , 2012, 491, 279-283.	13.7	276
12	X-ray crystal structures of the oxidized and reduced forms of the rubredoxin from the marine hyperthermophilic archaeobacterium <i>pyrococcus furiosus</i> . <i>Protein Science</i> , 1992, 1, 1494-1507.	3.1	238
13	From guide to target: molecular insights into eukaryotic RNA-interference machinery. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 20-28.	3.6	219
14	Strategies for protein coexpression in <i>Escherichia coli</i> . <i>Nature Methods</i> , 2006, 3, 55-64.	9.0	207
15	On helicases and other motor proteins. <i>Current Opinion in Structural Biology</i> , 2008, 18, 243-257.	2.6	189
16	Argonaute Slicing Is Required for Heterochromatic Silencing and Spreading. <i>Science</i> , 2006, 313, 1134-1137.	6.0	182
17	Conformational variability in structures of the nitrogenase iron proteins from <i>Azotobacter vinelandii</i> and <i>Clostridium pasteurianum</i> . <i>Journal of Molecular Biology</i> , 1998, 280, 669-685.	2.0	152
18	NSD3-Short Is an Adaptor Protein that Couples BRD4 to the CHD8 Chromatin Remodeler. <i>Molecular Cell</i> , 2015, 60, 847-859.	4.5	137

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19	Crystal structure of a conserved protease that binds DNA: the bleomycin hydrolase, Gal6. <i>Science</i> , 1995, 269, 945-950.	6.0	135
20	The Making of a Slicer: Activation of Human Argonaute-1. <i>Cell Reports</i> , 2013, 3, 1901-1909.	2.9	129
21	Mechanism of Dis3l2 substrate recognition in the Lin28 ^{let-7} pathway. <i>Nature</i> , 2014, 514, 252-256.	13.7	110
22	SARS-CoV-2 neutralizing antibody responses are more robust in patients with severe disease. <i>Emerging Microbes and Infections</i> , 2020, 9, 2091-2093.	3.0	109
23	The three-dimensional structure of a DNA duplex containing looped-out bases. <i>Nature</i> , 1988, 334, 82-84.	13.7	103
24	High-Affinity Binding of Chp1 Chromodomain to K9 Methylated Histone H3 Is Required to Establish Centromeric Heterochromatin. <i>Molecular Cell</i> , 2009, 34, 36-46.	4.5	103
25	Eukaryotic Argonautes come into focus. <i>Trends in Biochemical Sciences</i> , 2013, 38, 263-271.	3.7	96
26	Three-dimensional structures of bulge-containing DNA fragments. <i>Journal of Molecular Biology</i> , 1992, 225, 397-431.	2.0	94
27	Argonautes confront new small RNAs. <i>Current Opinion in Chemical Biology</i> , 2007, 11, 569-577.	2.8	89
28	PTEN Functions by Recruitment to Cytoplasmic Vesicles. <i>Molecular Cell</i> , 2015, 58, 255-268.	4.5	89
29	Multivalent Recruitment of Human Argonaute by GW182. <i>Molecular Cell</i> , 2017, 67, 646-658.e3.	4.5	81
30	Crystal structure of apaf-1 caspase recruitment domain: an α -helical greek key fold for apoptotic signaling 1 Edited by D. C. Rees. <i>Journal of Molecular Biology</i> , 1999, 293, 439-447.	2.0	80
31	Crystal Structure of the DNA Binding Domain of the Replication Initiation Protein E1 from Papillomavirus. <i>Molecular Cell</i> , 2000, 6, 149-158.	4.5	80
32	FUS Regulates Activity of MicroRNA-Mediated Gene Silencing. <i>Molecular Cell</i> , 2018, 69, 787-801.e8.	4.5	76
33	Ancestral Roles of Small RNAs: An Ago-Centric Perspective. <i>Cold Spring Harbor Perspectives in Biology</i> , 2011, 3, a003772-a003772.	2.3	75
34	Crystal structures of two intermediates in the assembly of the papillomavirus replication initiation complex. <i>EMBO Journal</i> , 2002, 21, 1487-1496.	3.5	68
35	Argonaute and RNA "getting into the groove. <i>Current Opinion in Structural Biology</i> , 2006, 16, 5-11.	2.6	63
36	Crystal structure of human bleomycin hydrolase, a self-compartmentalizing cysteine protease. <i>Structure</i> , 1999, 7, 619-627.	1.6	62

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37	On-Enzyme Refolding Permits Small RNA and tRNA Surveillance by the CCA-Adding Enzyme. <i>Cell</i> , 2015, 160, 644-658.	13.5	61
38	Dynamic look at DNA unwinding by a replicative helicase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E827-35.	3.3	60
39	siRNA carrying an (E)-vinylphosphonate moiety at the 5' end of the guide strand augments gene silencing by enhanced binding to human Argonaute-2. <i>Nucleic Acids Research</i> , 2017, 45, 3528-3536.	6.5	59
40	The Unusual Active Site of Gal6/Bleomycin Hydrolase Can Act as a Carboxypeptidase, Aminopeptidase, and Peptide Ligase. <i>Cell</i> , 1998, 93, 103-109.	13.5	56
41	The Argonautes. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2006, 71, 67-72.	2.0	54
42	High-resolution cryo-EM structures of outbreak strain human norovirus shells reveal size variations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 12828-12832.	3.3	53
43	ELTA: Enzymatic Labeling of Terminal ADP-Ribose. <i>Molecular Cell</i> , 2019, 73, 845-856.e5.	4.5	52
44	Decoding the 5' nucleotide bias of PIWI-interacting RNAs. <i>Nature Communications</i> , 2019, 10, 828.	5.8	51
45	Comparison of the X-ray structure of native rubredoxin from <i>pyrococcus furiosus</i> with the NMR structure of the zinc-substituted protein. <i>Protein Science</i> , 1992, 1, 1522-1525.	3.1	47
46	NADP Regulates the Yeast <i>GAL</i> Induction System. <i>Science</i> , 2008, 319, 1090-1092.	6.0	47
47	Chd5 Requires PHD-Mediated Histone 3 Binding for Tumor Suppression. <i>Cell Reports</i> , 2013, 3, 92-102.	2.9	47
48	Crystal structure of the DNA binding domain of the replication initiation protein E1 from papillomavirus. <i>Molecular Cell</i> , 2000, 6, 149-58.	4.5	47
49	Multi-domain utilization by TUT4 and TUT7 in control of let-7 biogenesis. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 658-665.	3.6	44
50	Structure of the active form of human origin recognition complex and its ATPase motor module. <i>ELife</i> , 2017, 6, .	2.8	44
51	The Gal3p transducer of the <i>GAL</i> regulon interacts with the Gal80p repressor in its ligand-induced closed conformation. <i>Genes and Development</i> , 2012, 26, 294-303.	2.7	42
52	Harnessing insulin- and leptin-induced oxidation of PTP1B for therapeutic development. <i>Nature Communications</i> , 2018, 9, 283.	5.8	39
53	The Chp1-Tas3 core is a multifunctional platform critical for gene silencing by RITS. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 1351-1357.	3.6	38
54	Noncysteinylyl Coordination to the [4Fe-4S] ₂ +Cluster of the DNA Repair Adenine Glycosylase MutY Introduced via Site-Directed Mutagenesis. Structural Characterization of an Unusual Histidinylyl-Coordinated Cluster. <i>Biochemistry</i> , 2002, 41, 3931-3942.	1.2	37

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55	OCA-T1 and OCA-T2 are coactivators of POU2F3 in the tuft cell lineage. <i>Nature</i> , 2022, 607, 169-175.	13.7	35
56	Structurally modulated codelivery of siRNA and Argonaute 2 for enhanced RNA interference. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E2696-E2705.	3.3	34
57	A structural snapshot of base-pair opening in DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 11809-11814.	3.3	33
58	Conformational substates in different crystal forms of the photoactive yellow protein—Correlation with theoretical and experimental flexibility. <i>Protein Science</i> , 2000, 9, 64-72.	3.1	31
59	Essential Dynamics from NMR Clusters: Dynamic Properties of the Myb DNA-Binding Domain and a Hinge-Bending Enhancing Variant. <i>Methods</i> , 1998, 14, 318-328.	1.9	30
60	Crystal Structure of Carboxypeptidase A Complexed with d-Cysteine at 1.75 Å... Inhibitor-Induced Conformational Changes,. <i>Biochemistry</i> , 2000, 39, 10082-10089.	1.2	27
61	The DNA-binding Domain of Human Papillomavirus Type 18 E1. <i>Journal of Biological Chemistry</i> , 2004, 279, 3733-3742.	1.6	27
62	Rapid generation of drug-resistance alleles at endogenous loci using CRISPR-Cas9 indel mutagenesis. <i>PLoS ONE</i> , 2017, 12, e0172177.	1.1	25
63	CRL4-like Clr4 complex in <i>Schizosaccharomyces pombe</i> depends on an exposed surface of Dos1 for heterochromatin silencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1795-1800.	3.3	21
64	The dynamic nature of the human origin recognition complex revealed through five cryoEM structures. <i>ELife</i> , 2020, 9, .	2.8	20
65	The coming of age of DNA crystallography. <i>Current Opinion in Structural Biology</i> , 1993, 3, 323-335.	2.6	18
66	Argonaute MID domain takes centre stage. <i>EMBO Reports</i> , 2010, 11, 564-565.	2.0	18
67	Evolution of DNA replication origin specification and gene silencing mechanisms. <i>Nature Communications</i> , 2020, 11, 5175.	5.8	16
68	Selective chemical inactivation of AAA proteins reveals distinct functions of proteasomal ATPases. <i>Chemistry and Biology</i> , 2001, 8, 941-950.	6.2	14
69	Structure of the photoactive yellow protein reconstituted with caffeic acid at 1.16 Å... resolution. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 585-590.	2.5	13
70	A structural view of the initiators for chromosome replication. <i>Current Opinion in Structural Biology</i> , 2018, 53, 131-139.	2.6	13
71	Engineering Photocycle Dynamics. <i>Journal of Biological Chemistry</i> , 2002, 277, 6463-6468.	1.6	12
72	Asterix/Gtsf1 links tRNAs and piRNA silencing of retrotransposons. <i>Cell Reports</i> , 2021, 34, 108914.	2.9	12

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73	Mutagenesis and crystallographic studies of the catalytic residues of the papain family protease bleomycin hydrolase: new insights into active-site structure. <i>Biochemical Journal</i> , 2007, 401, 421-428.	1.7	11
74	Target binding triggers hierarchical phosphorylation of human Argonaute-2 to promote target release. <i>ELife</i> , 0, 11, .	2.8	11
75	A Structural Model For Sequence-Specific Proflavin-DNA Interactions During In Vitro Frameshift Mutagenesis. <i>Journal of Biomolecular Structure and Dynamics</i> , 1992, 10, 317-331.	2.0	7
76	Developmental roles and molecular mechanisms of Asterix/GTSE1. <i>Wiley Interdisciplinary Reviews RNA</i> , 2022, 13, e1716.	3.2	6
77	siRNAs at RISC. <i>Structure</i> , 2004, 12, 1120-1122.	1.6	5
78	The Structure of Human Argonaute-2 in Complex with miR-20a. <i>Cell</i> , 2012, 150, 233.	13.5	4
79	Structural Basis for the EBA-175 Erythrocyte Invasion Pathway of the Malaria Parasite <i>Plasmodium falciparum</i> . <i>Cell</i> , 2005, 122, 485.	13.5	1