

David W Taylor

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

4,869
citations

279487

23
h-index

243296

44
g-index

71
all docs

71
docs citations

71
times ranked

5920
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural basis for mismatch surveillance by CRISPR-Cas9. <i>Nature</i> , 2022, 603, 343-347.	13.7	116
2	Cross-Seeding Controls A β 2 Fibril Populations and Resulting Functions. <i>Journal of Physical Chemistry B</i> , 2022, 126, 2217-2229.	1.2	4
3	Structural basis for broad anti-phage immunity by DISARM. <i>Nature Communications</i> , 2022, 13, .	5.8	10
4	Structural rearrangements allow nucleic acid discrimination by type I-D Cascade. <i>Nature Communications</i> , 2022, 13, .	5.8	17
5	Simplified geometric representations of protein structures identify complementary interaction interfaces. <i>Proteins: Structure, Function and Bioinformatics</i> , 2021, 89, 348-360.	1.5	7
6	Structure of a type IV CRISPR-Cas ribonucleoprotein complex. <i>IScience</i> , 2021, 24, 102201.	1.9	23
7	Remdesivir is a delayed translocation inhibitor of SARS-CoV-2 replication. <i>Molecular Cell</i> , 2021, 81, 1548-1552.e4.	4.5	90
8	Improving integrative 3D modeling into low- to medium-resolution electron microscopy structures with evolutionary couplings. <i>Protein Science</i> , 2021, 30, 1006-1021.	3.1	2
9	Isolation of the <i>Buchnera aphidicola</i> flagellum basal body complexes from the <i>Buchnera</i> membrane. <i>PLoS ONE</i> , 2021, 16, e0245710.	1.1	2
10	SCOPE enables type III CRISPR-Cas diagnostics using flexible targeting and stringent CARF ribonuclease activation. <i>Nature Communications</i> , 2021, 12, 5033.	5.8	57
11	Separating distinct structures of multiple macromolecular assemblies from cryo-EM projections. <i>Journal of Structural Biology</i> , 2020, 209, 107416.	1.3	19
12	Engineered CRISPR/Cas9 enzymes improve discrimination by slowing DNA cleavage to allow release of off-target DNA. <i>Nature Communications</i> , 2020, 11, 3576.	5.8	55
13	Diverse CRISPR-Cas Complexes Require Independent Translation of Small and Large Subunits from a Single Gene. <i>Molecular Cell</i> , 2020, 80, 971-979.e7.	4.5	27
14	Structural basis for assembly of non-canonical small subunits into type I-C Cascade. <i>Nature Communications</i> , 2020, 11, 5931.	5.8	23
15	Functionalized Mesoporous Silicas Direct Structural Polymorphism of Amyloid- β 2 Fibrils. <i>Langmuir</i> , 2020, 36, 7345-7355.	1.6	3
16	Structural Biology in the Multi-Omics Era. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 2424-2429.	2.5	13
17	The final cut: Cas9 editing. <i>Nature Structural and Molecular Biology</i> , 2019, 26, 669-670.	3.6	11
18	Kinetic characterization of Cas9 enzymes. <i>Methods in Enzymology</i> , 2019, 616, 289-311.	0.4	6

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19	Tightly-orchestrated rearrangements govern catalytic center assembly of the ribosome. <i>Nature Communications</i> , 2019, 10, 958.	5.8	51
20	Electron microscopy snapshots of single particles from single cells. <i>Journal of Biological Chemistry</i> , 2019, 294, 1602-1608.	1.6	19
21	Supercharging enables organized assembly of synthetic biomolecules. <i>Nature Chemistry</i> , 2019, 11, 204-212.	6.6	70
22	Kinetic Basis for Improved Specificity of CRISPR/Cas9 High Fidelity Variants. <i>FASEB Journal</i> , 2019, 33, 620.4.	0.2	0
23	DNA Unwinding Is the Primary Determinant of CRISPR-Cas9 Activity. <i>Cell Reports</i> , 2018, 22, 359-371.	2.9	141
24	Cas4-Dependent Pre-spacer Processing Ensures High-Fidelity Programming of CRISPR Arrays. <i>Molecular Cell</i> , 2018, 70, 48-59.e5.	4.5	91
25	Classification of Single Particles from Human Cell Extract Reveals Distinct Structures. <i>Cell Reports</i> , 2018, 24, 259-268.e3.	2.9	32
26	Box C/D sRNA stem ends act as stabilizing anchors for box C/D di-sRNPs. <i>Nucleic Acids Research</i> , 2016, 44, 8976-8989.	6.5	15
27	DNA Targeting by a Minimal CRISPR RNA-Guided Cascade. <i>Molecular Cell</i> , 2016, 63, 840-851.	4.5	75
28	Structures of a CRISPR-Cas9 R-loop complex primed for DNA cleavage. <i>Science</i> , 2016, 351, 867-871.	6.0	512
29	Antigenic and Cryo-Electron Microscopy Structure Analysis of a Chimeric Sapovirus Capsid. <i>Journal of Virology</i> , 2016, 90, 2664-2675.	1.5	15
30	Structures of the CRISPR-Cmr complex reveal mode of RNA target positioning. <i>Science</i> , 2015, 348, 581-585.	6.0	126
31	Rational design of a split-Cas9 enzyme complex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2984-2989.	3.3	255
32	A Single α Helix Drives Extensive Remodeling of the Proteasome Lid and Completion of Regulatory Particle Assembly. <i>Cell</i> , 2015, 163, 432-444.	13.5	73
33	Structures of Cas9 Endonucleases Reveal RNA-Mediated Conformational Activation. <i>Science</i> , 2014, 343, 1247997.	6.0	938
34	CasA mediates Cas3-catalyzed target degradation during CRISPR RNA-guided interference. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 6618-6623.	3.3	206
35	RNA Targeting by the Type III-A CRISPR-Cas Csm Complex of <i>Thermus thermophilus</i> . <i>Molecular Cell</i> , 2014, 56, 518-530.	4.5	267
36	Cryo-Electron Microscopic Study of the Enzymatic Mechanism of the RNA 2'-O-Methyltransferase Box CD sRNP. <i>Microscopy and Microanalysis</i> , 2014, 20, 1284-1285.	0.2	9

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37	Structure and Activity of the RNA-Targeting Type III-B CRISPR-Cas Complex of <i>Thermus thermophilus</i> . <i>Molecular Cell</i> , 2013, 52, 135-145.	4.5	212
38	An RNA Degradation Machine Sculpted by Ro Autoantigen and Noncoding RNA. <i>Cell</i> , 2013, 153, 166-177.	13.5	81
39	Substrate-specific structural rearrangements of human Dicer. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 662-670.	3.6	89
40	Non-coding Y RNAs as tethers and gates. <i>RNA Biology</i> , 2013, 10, 1602-1608.	1.5	30
41	Structural Basis for Broad Detection of Genogroup II Noroviruses by a Monoclonal Antibody That Binds to a Site Occluded in the Viral Particle. <i>Journal of Virology</i> , 2012, 86, 3635-3646.	1.5	75
42	The box C/D sRNP dimeric architecture is conserved across domain Archaea. <i>Rna</i> , 2012, 18, 1527-1540.	1.6	19
43	The Box C/D sRNP dimeric architecture is conserved across Kingdom Archaea. <i>FASEB Journal</i> , 2012, 26, 773.2.	0.2	0
44	A Novel miRNA Processing Pathway Independent of Dicer Requires Argonaute2 Catalytic Activity. <i>Science</i> , 2010, 328, 1694-1698.	6.0	718
45	Structural insights into RNA processing by the human RISC-loading complex. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1148-1153.	3.6	215
46	DNA Unwinding Is the Primary Determinant of CRISPR-Cas9 Activity. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0