Otto Berninghausen

List of Publications by Year
in descending order

62	6,294	71102 41	133252 59
papers	citations	h-index	g-index

73	73	73	7173
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural basis for translational shutdown and immune evasion by the Nsp1 protein of SARS-CoV-2. Science, 2020, 369, 1249-1255.	12.6	635
2	Structures of the human and Drosophila 80S ribosome. Nature, 2013, 497, 80-85.	27.8	474
3	Structure of Monomeric Yeast and Mammalian Sec61 Complexes Interacting with the Translating Ribosome. Science, 2009, 326, 1369-1373.	12.6	263
4	Structural basis of highly conserved ribosome recycling in eukaryotes and archaea. Nature, 2012, 482, 501-506.	27.8	210
5	Cryo-EM structure and rRNA model of a translating eukaryotic 80S ribosome at 5.5-â„« resolution. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 19748-19753.	7.1	196
6	Structures of the Sec61 complex engaged in nascent peptide translocation or membrane insertion. Nature, 2014, 506, 107-110.	27.8	186
7	Architecture of the 90S Pre-ribosome: A Structural View on the Birth of the Eukaryotic Ribosome. Cell, 2016, 166, 380-393.	28.9	184
8	The Ccr4-Not complex monitors the translating ribosome for codon optimality. Science, 2020, 368, .	12.6	180
9	Structural basis for coupling protein transport and N-glycosylation at the mammalian endoplasmic reticulum. Science, 2018, 360, 215-219.	12.6	177
10	Visualizing the Assembly Pathway of Nucleolar Pre-60S Ribosomes. Cell, 2017, 171, 1599-1610.e14.	28.9	162
11	Structure of the no-go mRNA decay complex Dom34â€“Hbs1 bound to a stalled 80S ribosome. Nature Structural and Molecular Biology, 2011, 18, 715-720.	8.2	150
12	The stringent factor RelA adopts an open conformation on the ribosome to stimulate ppGpp synthesis. Nucleic Acids Research, 2016, 44, 6471-6481.	14.5	129
13	An antimicrobial peptide that inhibits translation by trapping release factors on the ribosome. Nature Structural and Molecular Biology, 2017, 24, 752-757.	8.2	123
14	Structural Basis for Polyproline-Mediated Ribosome Stalling and Rescue by the Translation Elongation Factor EF-P. Molecular Cell, 2017, 68, 515-527.e6.	9.7	118
15	Visualizing late states of human 40S ribosomal subunit maturation. Nature, 2018, 558, 249-253.	27.8	118
16	60S ribosome biogenesis requires rotation of the 5S ribonucleoprotein particle. Nature Communications, 2014, 5, 3491.	12.8	117
17	Molecular basis for erythromycin-dependent ribosome stalling during translation of the ErmBL leader peptide. Nature Communications, 2014, 5, 3501.	12.8	115
18	Molecular mechanism of translational stalling by inhibitory codon combinations and poly(A) tracts. EMBO Journal, 2020, 39, e103365.	7.8	113

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19	The cryo-EM structure of a ribosomeâ€“Ski2-Ski3-Ski8 helicase complex. Science, 2016, 354, 1431-1433.	12.6	108
20	Structural Basis for Translational Stalling by Human Cytomegalovirus and Fungal Arginine Attenuator Peptide. Molecular Cell, 2010, 40, 138-146.	9.7	106
21	Structure of the hypusinylated eukaryotic translation factor eIF-5A bound to the ribosome. Nucleic Acids Research, 2016, 44, 1944-1951.	14.5	106
22	Cryoelectron Microscopic Structures of Eukaryotic Translation Termination Complexes Containing eRF1-eRF3 or eRF1-ABCE1. Cell Reports, 2014, 8, 59-65.	6.4	105
23	Structure of the Bacillus subtilis 70S ribosome reveals the basis for species-specific stalling. Nature Communications, 2015, 6, 6941.	12.8	105
24	Drug Sensing by the Ribosome Induces Translational Arrest via Active Site Perturbation. Molecular Cell, 2014, 56, 446-452.	9.7	104
25	Architecture of the Rix1â€“Rea1 checkpoint machinery during pre-60S-ribosome remodeling. Nature Structural and Molecular Biology, 2016, 23, 37-44.	8.2	104
26	Structure of a human translation termination complex. Nucleic Acids Research, 2015, 43, 8615-8626.	14.5	99
27	3.2-Ã…-resolution structure of the 90S preribosome before A1 pre-rRNA cleavage. Nature Structural and Molecular Biology, 2017, 24, 954-964.	8.2	95
28	Structure of a hibernating 100S ribosome reveals an inactive conformation of the ribosomal protein S1. Nature Microbiology, 2018, 3, 1115-1121.	13.3	92
29	The force-sensing peptide VemP employs extreme compaction and secondary structure formation to induce ribosomal stalling. ELife, 2017, 6, .	6.0	81
30	Ribosomeâ€“NatA architecture reveals that rRNA expansion segments coordinate N-terminal acetylation. Nature Structural and Molecular Biology, 2019, 26, 35-39.	8.2	79
31	Structure of Gcn1 bound to stalled and colliding 80S ribosomes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	79
32	Parallel Structural Evolution of Mitochondrial Ribosomes and OXPHOS Complexes. Genome Biology and Evolution, 2015, 7, 1235-1251.	2.5	77
33	Structure of the 40Sâ€“ABCE1 post-splitting complex in ribosome recycling and translation initiation. Nature Structural and Molecular Biology, 2017, 24, 453-460.	8.2	77
34	Cryo-EM structure of a late pre-40S ribosomal subunit from Saccharomyces cerevisiae. ELife, 2017, 6, .	6.0	77
35	Structure of the Bacillus subtilis hibernating 100S ribosome reveals the basis for 70S dimerization. EMBO Journal, 2017, 36, 2061-2072.	7.8	74
36	Molecular Basis for the Ribosome Functioning as an L-Tryptophan Sensor. Cell Reports, 2014, 9, 469-475.	6.4	73

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37	A structural model of the active ribosome-bound membrane protein insertase YidC. ELife, 2014, 3, e03035.	6.0	69
38	Structure and function of Vms1 and Arb1 in RQC and mitochondrial proteome homeostasis. Nature, 2019, 570, 538-542.	27.8	63
39	Structure of the 80S ribosomeâ€“Xrn1 nuclease complex. Nature Structural and Molecular Biology, 2019, 26, 275-280.	8.2	62
40	Visualization of a polytopic membrane protein during SecY-mediated membrane insertion. Nature Communications, 2014, 5, 4103.	12.8	60
41	90 S pre-ribosome transformation into the primordial 40 S subunit. Science, 2020, 369, 1470-1476.	12.6	59
42	Structure and function of yeast Lso2 and human CCDC124 bound to hibernating ribosomes. PLoS Biology, 2020, 18, e3000780.	5.6	56
43	Structural basis for the final steps of human 40S ribosome maturation. Nature, 2020, 587, 683-687.	27.8	52
44	Structural and mutational analysis of the ribosome-arresting human XBP1u. ELife, 2019, 8, .	6.0	51
45	Ribosome collisions induce mRNA cleavage and ribosome rescue in bacteria. Nature, 2022, 603, 503-508.	27.8	50
46	Structural Dynamics of the YidC:Ribosome Complex during Membrane Protein Biogenesis. Cell Reports, 2016, 17, 2943-2954.	6.4	48
47	Thermophile 90S Pre-ribosome Structures Reveal the Reverse Order of Co-transcriptional 18S rRNA Subdomain Integration. Molecular Cell, 2019, 75, 1256-1269.e7.	9.7	48
48	Construction of the Central Protuberance and L1 Stalk during 60S Subunit Biogenesis. Molecular Cell, 2020, 79, 615-628.e5.	9.7	48
49	Structural basis for ArfAâ€“RF2-mediated translation termination on mRNAs lacking stop codons. Nature, 2017, 541, 546-549.	27.8	39
50	Partially inserted nascent chain unzips the lateral gate of the Sec translocon. EMBO Reports, 2019, 20, e48191.	4.5	39
51	Structure of the Maturing 90S Pre-ribosome in Association with the RNA Exosome. Molecular Cell, 2021, 81, 293-303.e4.	9.7	36
52	A structural inventory of native ribosomal ABCE1â€43S preâ€initiation complexes. EMBO Journal, 2021, 40, e105179.	7.8	35
53	Architecture of the active postâ€translational Sec translocon. EMBO Journal, 2021, 40, e105643.	7.8	33
54	Structure of the Bcs1 AAA-ATPase suggests an airlock-like translocation mechanism for folded proteins. Nature Structural and Molecular Biology, 2020, 27, 142-149.	8.2	32

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55	A distinct assembly pathway of the human 39S late pre-mitoribosome. Nature Communications, 2021, 12, 4544.	12.8	27
56	Molecular analysis of the ribosome recycling factor <scp>ABCE</scp> 1 bound to the 30S postâ€splitting complex. EMBO Journal, 2020, 39, e103788.	7.8	24
57	Inhibition of SRP-dependent protein secretion by the bacterial alarmone (p)ppGpp. Nature Communications, 2022, 13, 1069.	12.8	16
58	Structural basis of <scp>l</scp>-tryptophan-dependent inhibition of release factor 2 by the TnaC arrest peptide. Nucleic Acids Research, 2021, 49, 9539-9547.	14.5	12
59	Structure and function of yeast Lso2 and human CCDC124 bound to hibernating ribosomes. , 2020, 18, e3000780.		0
60	Structure and function of yeast Lso2 and human CCDC124 bound to hibernating ribosomes. , 2020, 18, e3000780.		0
61	Structure and function of yeast Lso2 and human CCDC124 bound to hibernating ribosomes. , 2020, 18, e3000780.		0
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