

# Thorsten Mielke

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

2,390  
citations

186265

28  
h-index

233421

45  
g-index

48  
all docs

48  
docs citations

48  
times ranked

3383  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural Snapshots of Actively Translating Human Ribosomes. <i>Cell</i> , 2015, 161, 845-857.	28.9	161
2	Structure of the no-go mRNA decay complex Dom34/Hbs1 bound to a stalled 80S ribosome. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 715-720.	8.2	150
3	Human iPSC-Derived Neural Progenitors Are an Effective Drug Discovery Model for Neurological mtDNA Disorders. <i>Cell Stem Cell</i> , 2017, 20, 659-674.e9.	11.1	126
4	Regulation of the Mammalian Elongation Cycle by Subunit Rolling: A Eukaryotic-Specific Ribosome Rearrangement. <i>Cell</i> , 2014, 158, 121-131.	28.9	125
5	Mechanism of eIF6-mediated Inhibition of Ribosomal Subunit Joining. <i>Journal of Biological Chemistry</i> , 2010, 285, 14848-14851.	3.4	107
6	Stable Positioning of Unc13 Restricts Synaptic Vesicle Fusion to Defined Release Sites to Promote Synchronous Neurotransmission. <i>Neuron</i> , 2017, 95, 1350-1364.e12.	8.1	106
7	Structure of the mammalian 80S initiation complex with initiation factor 5B on HCV-IRES RNA. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 721-727.	8.2	97
8	Structural Basis for the Action of an All-Purpose Transcription Anti-termination Factor. <i>Molecular Cell</i> , 2019, 74, 143-157.e5.	9.7	86
9	Dnmt1 has de novo activity targeted to transposable elements. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 594-603.	8.2	83
10	Cryo-EM of Ribosomal 80S Complexes with Termination Factors Reveals the Translocated Cricket Paralysis Virus IRES. <i>Molecular Cell</i> , 2015, 57, 422-432.	9.7	82
11	Spermidine Suppresses Age-Associated Memory Impairment by Preventing Adverse Increase of Presynaptic Active Zone Size and Release. <i>PLoS Biology</i> , 2016, 14, e1002563.	5.6	82
12	Molecular architecture of the ribosome-bound Hepatitis C Virus internal ribosomal entry site <sc>RNA</sc>. <i>EMBO Journal</i> , 2015, 34, 3042-3058.	7.8	80
13	Steps toward translocation-independent RNA polymerase inactivation by terminator ATPase ĩ. <i>Science</i> , 2021, 371, .	12.6	78
14	Parallel Structural Evolution of Mitochondrial Ribosomes and OXPHOS Complexes. <i>Genome Biology and Evolution</i> , 2015, 7, 1235-1251.	2.5	77
15	Cell type-dependent differential activation of ERK by oncogenic KRAS in colon cancer and intestinal epithelium. <i>Nature Communications</i> , 2019, 10, 2919.	12.8	70
16	tRNA Translocation by the Eukaryotic 80S Ribosome and the Impact of GTP Hydrolysis. <i>Cell Reports</i> , 2018, 25, 2676-2688.e7.	6.4	61
17	Structures of ribosome-bound initiation factor 2 reveal the mechanism of subunit association. <i>Science Advances</i> , 2016, 2, e1501502.	10.3	59
18	Structural basis for ĩN-dependent processive transcription antitermination. <i>Nature Microbiology</i> , 2017, 2, 17062.	13.3	58

#	ARTICLE	IF	CITATIONS
19	De Novo Mutations in SLC25A24 Cause a Craniosynostosis Syndrome with Hypertrichosis, Progeroid Appearance, and Mitochondrial Dysfunction. <i>American Journal of Human Genetics</i> , 2017, 101, 833-843.	6.2	56
20	Cryo-EM structures reveal intricate Fe-S cluster arrangement and charging in <i>Rhodobacter capsulatus</i> formate dehydrogenase. <i>Nature Communications</i> , 2020, 11, 1912.	12.8	48
21	Structural Visualization of the Formation and Activation of the 50S Ribosomal Subunit during In Vitro Reconstitution. <i>Molecular Cell</i> , 2018, 70, 881-893.e3.	9.7	46
22	Structural insights into ribosomal rescue by Dom34 and Hbs1 at near-atomic resolution. <i>Nature Communications</i> , 2016, 7, 13521.	12.8	42
23	Structure-Based Mechanisms of a Molecular RNA Polymerase/Chaperone Machine Required for Ribosome Biosynthesis. <i>Molecular Cell</i> , 2020, 79, 1024-1036.e5.	9.7	41
24	Structures of active melanocortin-4 receptor Gs-protein complexes with NDP-MSH and setmelanotide. <i>Cell Research</i> , 2021, 31, 1176-1189.	12.0	40
25	Cryo-EM structure of the <i>Shigella</i> type III needle complex. <i>PLoS Pathogens</i> , 2020, 16, e1008263.	4.7	36
26	Cryo-electron Microscopic Structure of SecA Protein Bound to the 70S Ribosome. <i>Journal of Biological Chemistry</i> , 2014, 289, 7190-7199.	3.4	35
27	Quantitative interaction mapping reveals an extended UBX domain in ASPL that disrupts functional p97 hexamers. <i>Nature Communications</i> , 2016, 7, 13047.	12.8	35
28	Snapshots of native pre-50S ribosomes reveal a biogenesis factor network and evolutionary specialization. <i>Molecular Cell</i> , 2021, 81, 1200-1215.e9.	9.7	35
29	It takes two transducins to activate the cGMP-phosphodiesterase 6 in retinal rods. <i>Open Biology</i> , 2018, 8, .	3.6	34
30	Assembly of <i>Helicobacter pylori</i> Initiation Complex Is Determined by Sequence-Specific and Topology-Sensitive DnaA-oriC Interactions. <i>Journal of Molecular Biology</i> , 2014, 426, 2769-2782.	4.2	33
31	Protein Synthesis in the Developing Neocortex at Near-Atomic Resolution Reveals Ebp1-Mediated Neuronal Proteostasis at the 60S Tunnel Exit. <i>Molecular Cell</i> , 2021, 81, 304-322.e16.	9.7	27
32	Structure of the mammalian ribosome as it decodes the selenocysteine UGA codon. <i>Science</i> , 2022, 376, 1338-1343.	12.6	27
33	Structural transitions during the scaffolding-driven assembly of a viral capsid. <i>Nature Communications</i> , 2019, 10, 4840.	12.8	21
34	Unc13A and Unc13B contribute to the decoding of distinct sensory information in <i>Drosophila</i> . <i>Nature Communications</i> , 2021, 12, 1932.	12.8	16
35	Estrogens Determine Adherens Junction Organization and E-Cadherin Clustering in Breast Cancer Cells via Amphiregulin. <i>IScience</i> , 2020, 23, 101683.	4.1	14
36	Mechanistic insights into the role of prenyl-binding protein PrBP in membrane dissociation of phosphodiesterase 6. <i>Nature Communications</i> , 2018, 9, 90.	12.8	13

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37	Simple paired heavy- and light-chain antibody repertoire sequencing using endoplasmic reticulum microsomes. <i>Genome Medicine</i> , 2018, 10, 34.	8.2	13
38	The microfollicle: a model of the human hair follicle for in vitro studies. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2020, 56, 847-858.	1.5	12
39	Structure and Function of the <i>Campylobacter jejuni</i> Chromosome Replication Origin. <i>Frontiers in Microbiology</i> , 2018, 9, 1533.	3.5	11
40	Endocytosis-Mediated Replenishment of Amino Acids Favors Cancer Cell Proliferation and Survival in Chromophobe Renal Cell Carcinoma. <i>Cancer Research</i> , 2020, 80, 5491-5501.	0.9	11
41	Structural insights into Cullin4-RING ubiquitin ligase remodelling by Vpr from simian immunodeficiency viruses. <i>PLoS Pathogens</i> , 2021, 17, e1009775.	4.7	11
42	Architecture of Polyglutamine-containing Fibrils from Time-resolved Fluorescence Decay. <i>Journal of Biological Chemistry</i> , 2014, 289, 26817-26828.	3.4	9
43	Footprint-free human fetal foreskin derived iPSCs: A tool for modeling hepatogenesis associated gene regulatory networks. <i>Scientific Reports</i> , 2017, 7, 6294.	3.3	9
44	Putative Cooperative ATPâ€DnaA Binding to Double-Stranded DnaA Box and Single-Stranded DnaA-Trio Motif upon <i>Helicobacter pylori</i> Replication Initiation Complex Assembly. <i>International Journal of Molecular Sciences</i> , 2021, 22, 6643.	4.1	9
45	Temporal compartmentalization of viral infection in bacterial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	7
46	The role of <i>Helicobacter pylori</i> DnaA domain I in orisome assembly on a bipartite origin of chromosome replication. <i>Molecular Microbiology</i> , 2020, 113, 338-355.	2.5	5