

Thomas Martin Schmeing

List of Publications by Year in descending order

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42
papers

3,845
citations

279701

23
h-index

276775

41
g-index

43
all docs

43
docs citations

43
times ranked

3304
citing authors

#	ARTICLE	IF	CITATIONS
1	What recent ribosome structures have revealed about the mechanism of translation. <i>Nature</i> , 2009, 461, 1234-1242.	13.7	597
2	The Crystal Structure of the Ribosome Bound to EF-Tu and Aminoacyl-tRNA. <i>Science</i> , 2009, 326, 688-694.	6.0	481
3	An induced-fit mechanism to promote peptide bond formation and exclude hydrolysis of peptidyl-tRNA. <i>Nature</i> , 2005, 438, 520-524.	13.7	326
4	The Mechanism for Activation of GTP Hydrolysis on the Ribosome. <i>Science</i> , 2010, 330, 835-838.	6.0	318
5	Structural insights into peptide bond formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11670-11675.	3.3	267
6	Structural Insights into the Roles of Water and the 2'-OH of the P Site tRNA in the Peptidyl Transferase Reaction. <i>Molecular Cell</i> , 2005, 20, 437-448.	4.5	253
7	Structural and functional aspects of the nonribosomal peptide synthetase condensation domain superfamily: discovery, dissection and diversity. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2017, 1865, 1587-1604.	1.1	159
8	Synthetic cycle of the initiation module of a formylating nonribosomal peptide synthetase. <i>Nature</i> , 2016, 529, 239-242.	13.7	132
9	How mutations in tRNA distant from the anticodon affect the fidelity of decoding. <i>Nature Structural and Molecular Biology</i> , 2011, 18, 432-436.	3.6	109
10	A pre-translocational intermediate in protein synthesis observed in crystals of enzymatically active 50S subunits. <i>Nature Structural Biology</i> , 2002, 9, 225-30.	9.7	108
11	Structures of a dimodular nonribosomal peptide synthetase reveal conformational flexibility. <i>Science</i> , 2019, 366, .	6.0	99
12	Protospacer Adjacent Motif (PAM)-Distal Sequences Engage CRISPR Cas9 DNA Target Cleavage. <i>PLoS ONE</i> , 2014, 9, e109213.	1.1	94
13	X-Ray Crystallography and Electron Microscopy of Cross- and Multi-Module Nonribosomal Peptide Synthetase Proteins Reveal a Flexible Architecture. <i>Structure</i> , 2017, 25, 783-793.e4.	1.6	90
14	Structures of deacylated tRNA mimics bound to the E site of the large ribosomal subunit. <i>Rna</i> , 2003, 9, 1345-1352.	1.6	81
15	Crystal Structures of the First Condensation Domain of CDA Synthetase Suggest Conformational Changes during the Synthetic Cycle of Nonribosomal Peptide Synthetases. <i>Journal of Molecular Biology</i> , 2013, 425, 3137-3150.	2.0	79
16	Trapping biosynthetic acyl-enzyme intermediates with encoded 2,3-diaminopropionic acid. <i>Nature</i> , 2019, 565, 112-117.	13.7	78
17	Structural and mutational analysis of the nonribosomal peptide synthetase heterocyclization domain provides insight into catalysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 95-100.	3.3	75
18	Piecing together nonribosomal peptide synthesis. <i>Current Opinion in Structural Biology</i> , 2018, 49, 104-113.	2.6	75

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19	Chemical Probes Allow Structural Insight into the Condensation Reaction of Nonribosomal Peptide Synthetases. <i>Cell Chemical Biology</i> , 2016, 23, 331-339.	2.5	53
20	Design, synthesis and inÂvitro evaluation of novel SARS-CoV-2 3CLpro covalent inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2022, 229, 114046.	2.6	41
21	The multifaceted eukaryotic cap structure. <i>Wiley Interdisciplinary Reviews RNA</i> , 2021, 12, e1636.	3.2	33
22	Response to Comment on "The Mechanism for Activation of GTP Hydrolysis on the Ribosome". <i>Science</i> , 2011, 333, 37-37.	6.0	29
23	Biosynthesis of depsipeptides, <i><i>or</i> Depsi: The peptides with varied generations. <i>Protein Science</i>, 2020, 29, 2316-2347.</i>	3.1	29
24	Structural basis of keto acid utilization in nonribosomal depsipeptide synthesis. <i>Nature Chemical Biology</i> , 2020, 16, 493-496.	3.9	28
25	Characterization of Cereulide Synthetase, a Toxin-Producing Macromolecular Machine. <i>PLoS ONE</i> , 2015, 10, e0128569.	1.1	25
26	Structures and function of the amino acid polymerase cyanophycin synthetase. <i>Nature Chemical Biology</i> , 2021, 17, 1101-1110.	3.9	24
27	RNA-tethering assay and eIF4G:eIF4A obligate dimer design uncovers multiple eIF4F functional complexes. <i>Nucleic Acids Research</i> , 2020, 48, 8562-8575.	6.5	21
28	The chaperone HSPB1 prepares protein aggregates for resolubilization by HSP70. <i>Scientific Reports</i> , 2021, 11, 17139.	1.6	19
29	Efficacy of epetraborole against <i>Mycobacterium abscessus</i> is increased with norvaline. <i>PLoS Pathogens</i> , 2021, 17, e1009965.	2.1	19
30	Structures and function of a tailoring oxidase in complex with a nonribosomal peptide synthetase module. <i>Nature Communications</i> , 2022, 13, 548.	5.8	16
31	Towards a characterization of the structural determinants of specificity in the macrocyclizing thioesterase for deoxyerythronolide B biosynthesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2016, 1860, 486-497.	1.1	13
32	Structural basis for plazomicin antibiotic action and resistance. <i>Communications Biology</i> , 2021, 4, 729.	2.0	13
33	A cryptic third active site in cyanophycin synthetase creates primers for polymerization. <i>Nature Communications</i> , 2022, 13, .	5.8	12
34	Structure and Function of the Î ² -Asp-Arg Polymerase Cyanophycin Synthetase 2. <i>ACS Chemical Biology</i> , 2022, 17, 670-679.	1.6	11
35	Structures of GapR reveal a central channel which could accommodate B-DNA. <i>Scientific Reports</i> , 2019, 9, 16679.	1.6	9
36	Specific disulfide cross-linking to constrict the mobile carrier domain of nonribosomal peptide synthetases. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 163-170.	1.0	8

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37	Manipulation of an existing crystal form unexpectedly results in interwoven packing networks with pseudo-translational symmetry. <i>Acta Crystallographica Section D: Structural Biology</i> , 2016, 72, 1130-1136.	1.1	8
38	Structural Insight into a Novel Formyltransferase and Evolution to a Nonribosomal Peptide Synthetase Tailoring Domain. <i>ACS Chemical Biology</i> , 2018, 13, 3161-3172.	1.6	8
39	Ribosomes make sweeping arrests. <i>Nature Chemical Biology</i> , 2016, 12, 127-128.	3.9	2
40	Regulation of protein kinase C β Nuclear Import and Apoptosis by Mechanistic Target of Rapamycin Complex-1. <i>Scientific Reports</i> , 2019, 9, 17620.	1.6	2
41	Visualizing A Natural Antibiotic Nanofactory. <i>Clinical and Investigative Medicine</i> , 2016, 39, 220.	0.3	1
42	Structural Insights into the Roles of Water and the 2'-OH Hydroxyl of the P Site tRNA in the Peptidyl Transferase Reaction. <i>Journal of Hand Surgery Asian-Pacific Volume</i> , The, 2020, , 557-568.	0.2	0