Thomas Martin Schmeing

List of Publications by Year
in descending order

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42 papers	3,845 citations	279798 23 h-index	276875 41 g-index
43 all docs	43 docs citations	43 times ranked	3304 citing authors

#	Article	IF	Citations
1	Design, synthesis and inÂvitro evaluation of novel SARS-CoV-2 3CLpro covalent inhibitors. European Journal of Medicinal Chemistry, 2022, 229, 114046.	5.5	41
2	Structures and function of a tailoring oxidase in complex with a nonribosomal peptide synthetase module. Nature Communications, 2022, 13, 548.	12.8	16
3	Structure and Function of the Î²-Asp-Arg Polymerase Cyanophycin Synthetase 2. ACS Chemical Biology, 2022, 17, 670-679.	3.4	11
4	A cryptic third active site in cyanophycin synthetase creates primers for polymerization. Nature Communications, 2022, 13, .	12.8	12
5	The multifaceted eukaryotic cap structure. Wiley Interdisciplinary Reviews RNA, 2021, 12, e1636.	6.4	33
6	Structural basis for plazomicin antibiotic action and resistance. Communications Biology, 2021, 4, 729.	4.4	13
7	The chaperone HSPB1 prepares protein aggregates for resolubilization by HSP70. Scientific Reports, 2021, 11, 17139.	3.3	19
8	Structures and function of the amino acid polymerase cyanophycin synthetase. Nature Chemical Biology, 2021, 17, 1101-1110.	8.0	24
9	Efficacy of epetraborole against Mycobacterium abscessus is increased with norvaline. PLoS Pathogens, 2021, 17, e1009965.	4.7	19
10	RNA-tethering assay and eIF4G:eIF4A obligate dimer design uncovers multiple eIF4F functional complexes. Nucleic Acids Research, 2020, 48, 8562-8575.	14.5	21
11	Structural basis of keto acid utilization in nonribosomal depsipeptide synthesis. Nature Chemical Biology, 2020, 16, 493-496.	8.0	28
12	Biosynthesis of depsipeptides, or Depsi: The peptides with varied generations. Protein Science, 2020, 29, 2316-2347.	7.6	29
13	Structural Insights into the Roles of Water and the 2â€² Hydroxyl of the P Site tRNA in the Peptidyl Transferase Reaction. journal of hand surgery Asian-Pacific volume, The, 2020, , 557-568.	0.4	0
14	Structures of a dimodular nonribosomal peptide synthetase reveal conformational flexibility. Science, 2019, 366, .	12.6	99
15	Regulation of protein kinase CÎ´ Nuclear Import and Apoptosis by Mechanistic Target of Rapamycin Complex-1. Scientific Reports, 2019, 9, 17620.	3.3	2
16	Structures of GapR reveal a central channel which could accommodate B-DNA. Scientific Reports, 2019, 9, 16679.	3.3	9
17	Trapping biosynthetic acyl-enzyme intermediates with encoded 2,3-diaminopropionic acid. Nature, 2019, 565, 112-117.	27.8	78
18	Piecing together nonribosomal peptide synthesis. Current Opinion in Structural Biology, 2018, 49, 104-113.	5.7	75

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19	Structural Insight into a Novel Formyltransferase and Evolution to a Nonribosomal Peptide Synthetase Tailoring Domain. ACS Chemical Biology, 2018, 13, 3161-3172.	3.4	8
20	X-Ray Crystallography and Electron Microscopy of Cross- and Multi-Module Nonribosomal Peptide Synthetase Proteins Reveal a Flexible Architecture. Structure, 2017, 25, 783-793.e4.	3.3	90
21	Structural and functional aspects of the nonribosomal peptide synthetase condensation domain superfamily: discovery, dissection and diversity. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2017, 1865, 1587-1604.	2.3	159
22	Structural and mutational analysis of the nonribosomal peptide synthetase heterocyclization domain provides insight into catalysis. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 95-100.	7.1	75
23	Manipulation of an existing crystal form unexpectedly results in interwoven packing networks with pseudo-translational symmetry. Acta Crystallographica Section D: Structural Biology, 2016, 72, 1130-1136.	2.3	8
24	Synthetic cycle of the initiation module of a formylating nonribosomal peptide synthetase. Nature, 2016, 529, 239-242.	27.8	132
25	Towards a characterization of the structural determinants of specificity in the macrocyclizing thioesterase for deoxyerythronolide B biosynthesis. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 486-497.	2.4	13
26	Chemical Probes Allow Structural Insight into the Condensation Reaction of Nonribosomal Peptide Synthetases. Cell Chemical Biology, 2016, 23, 331-339.	5.2	53
27	Ribosomes make sweeping arrests. Nature Chemical Biology, 2016, 12, 127-128.	8.0	2
28	Visualizing A Natural Antibiotic Nanofactory. Clinical and Investigative Medicine, 2016, 39, 220.	0.6	1
29	Specific disulfide cross-linking to constrict the mobile carrier domain of nonribosomal peptide synthetases. Protein Engineering, Design and Selection, 2015, 28, 163-170.	2.1	8
30	Characterization of Cereulide Synthetase, a Toxin-Producing Macromolecular Machine. PLoS ONE, 2015, 10, e0128569.	2.5	25
31	Protospacer Adjacent Motif (PAM)-Distal Sequences Engage CRISPR Cas9 DNA Target Cleavage. PLoS ONE, 2014, 9, e109213.	2.5	94
32	Crystal Structures of the First Condensation Domain of CDA Synthetase Suggest Conformational Changes during the Synthetic Cycle of Nonribosomal Peptide Synthetases. Journal of Molecular Biology, 2013, 425, 3137-3150.	4.2	79
33	How mutations in tRNA distant from the anticodon affect the fidelity of decoding. Nature Structural and Molecular Biology, 2011, 18, 432-436.	8.2	109
34	Response to Comment on â€œThe Mechanism for Activation of GTP Hydrolysis on the Ribosomeâ€. Science, 2011, 333, 37-37.	12.6	29
35	The Mechanism for Activation of GTP Hydrolysis on the Ribosome. Science, 2010, 330, 835-838.	12.6	318
36	What recent ribosome structures have revealed about the mechanism of translation. Nature, 2009, 461, 1234-1242.	27.8	597

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37	The Crystal Structure of the Ribosome Bound to EF-Tu and Aminoacyl-tRNA. Science, 2009, 326, 688-694.	12.6	481
38	An induced-fit mechanism to promote peptide bond formation and exclude hydrolysis of peptidyl-tRNA. Nature, 2005, 438, 520-524.	27.8	326
39	Structural Insights into the Roles of Water and the 2â€² Hydroxyl of the P Site tRNA in the Peptidyl Transferase Reaction. Molecular Cell, 2005, 20, 437-448.	9.7	253
40	Structures of deacylated tRNA mimics bound to the E site of the large ribosomal subunit. Rna, 2003, 9, 1345-1352.	3.5	81
41	Structural insights into peptide bond formation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 11670-11675.	7.1	267
42	A pre-translocational intermediate in protein synthesis observed in crystals of enzymatically active 50S subunits. Nature Structural Biology, 2002, 9, 225-30.	9.7	108