

Thomas Martin Schmeing

List of Publications by Year in descending order

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42
papers

3,845
citations

279701

23
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276775

41
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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.	2.6	41
2	Structures and function of a tailoring oxidase in complex with a nonribosomal peptide synthetase module. Nature Communications, 2022, 13, 548.	5.8	16
3	Structure and Function of the Î²-Asp-Arg Polymerase Cyanophycin Synthetase 2. ACS Chemical Biology, 2022, 17, 670-679.	1.6	11
4	A cryptic third active site in cyanophycin synthetase creates primers for polymerization. Nature Communications, 2022, 13, .	5.8	12
5	The multifaceted eukaryotic cap structure. Wiley Interdisciplinary Reviews RNA, 2021, 12, e1636.	3.2	33
6	Structural basis for plazomicin antibiotic action and resistance. Communications Biology, 2021, 4, 729.	2.0	13
7	The chaperone HSPB1 prepares protein aggregates for resolubilization by HSP70. Scientific Reports, 2021, 11, 17139.	1.6	19
8	Structures and function of the amino acid polymerase cyanophycin synthetase. Nature Chemical Biology, 2021, 17, 1101-1110.	3.9	24
9	Efficacy of eptetraborole against Mycobacterium abscessus is increased with norvaline. PLoS Pathogens, 2021, 17, e1009965.	2.1	19
10	RNA-tethering assay and eIF4G:eIF4A obligate dimer design uncovers multiple eIF4F functional complexes. Nucleic Acids Research, 2020, 48, 8562-8575.	6.5	21
11	Structural basis of keto acid utilization in nonribosomal depsipeptide synthesis. Nature Chemical Biology, 2020, 16, 493-496.	3.9	28
12	Biosynthesis of depsipeptides, <i>or</i> Depsi: The peptides with varied generations. Protein Science, 2020, 29, 2316-2347.	3.1	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.	0.2	0
14	Structures of a dimodular nonribosomal peptide synthetase reveal conformational flexibility. Science, 2019, 366, .	6.0	99
15	Regulation of protein kinase CÎ Nuclear Import and Apoptosis by Mechanistic Target of Rapamycin Complex-1. Scientific Reports, 2019, 9, 17620.	1.6	2
16	Structures of GapR reveal a central channel which could accommodate B-DNA. Scientific Reports, 2019, 9, 16679.	1.6	9
17	Trapping biosynthetic acyl-enzyme intermediates with encoded 2,3-diaminopropionic acid. Nature, 2019, 565, 112-117.	13.7	78
18	Piecing together nonribosomal peptide synthesis. Current Opinion in Structural Biology, 2018, 49, 104-113.	2.6	75

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19	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
20	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
21	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
22	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
23	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
24	Synthetic cycle of the initiation module of a formylating nonribosomal peptide synthetase. <i>Nature</i> , 2016, 529, 239-242.	13.7	132
25	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
26	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
27	Ribosomes make sweeping arrests. <i>Nature Chemical Biology</i> , 2016, 12, 127-128.	3.9	2
28	Visualizing A Natural Antibiotic Nanofactory. <i>Clinical and Investigative Medicine</i> , 2016, 39, 220.	0.3	1
29	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
30	Characterization of Cereulide Synthetase, a Toxin-Producing Macromolecular Machine. <i>PLoS ONE</i> , 2015, 10, e0128569.	1.1	25
31	Protospacer Adjacent Motif (PAM)-Distal Sequences Engage CRISPR Cas9 DNA Target Cleavage. <i>PLoS ONE</i> , 2014, 9, e109213.	1.1	94
32	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
33	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
34	Response to Comment on "The Mechanism for Activation of GTP Hydrolysis on the Ribosome". <i>Science</i> , 2011, 333, 37-37.	6.0	29
35	The Mechanism for Activation of GTP Hydrolysis on the Ribosome. <i>Science</i> , 2010, 330, 835-838.	6.0	318
36	What recent ribosome structures have revealed about the mechanism of translation. <i>Nature</i> , 2009, 461, 1234-1242.	13.7	597

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37	The Crystal Structure of the Ribosome Bound to EF-Tu and Aminoacyl-tRNA. <i>Science</i> , 2009, 326, 688-694.	6.0	481
38	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
39	Structural Insights into the Roles of Water and the 2'-OH Hydroxyl of the P Site tRNA in the Peptidyl Transferase Reaction. <i>Molecular Cell</i> , 2005, 20, 437-448.	4.5	253
40	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
41	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
42	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