

Hannes Mutschler

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,981
citations

361045

20
h-index

395343

33
g-index

47
all docs

47
docs citations

47
times ranked

2086
citing authors

#	ARTICLE	IF	CITATIONS
1	The Nrd1–Nab3–Sen1 termination complex interacts with the Ser5-phosphorylated RNA polymerase II C-terminal domain. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 795-804.	3.6	242
2	MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13382-13392.	7.2	234
3	Compartmentalised RNA catalysis in membrane-free coacervate protocells. <i>Nature Communications</i> , 2018, 9, 3643.	5.8	225
4	A Novel Mechanism of Programmed Cell Death in Bacteria by Toxin–Antitoxin Systems Corrupts Peptidoglycan Synthesis. <i>PLoS Biology</i> , 2011, 9, e1001033.	2.6	202
5	Active coacervate droplets as a model for membraneless organelles and protocells. <i>Nature Communications</i> , 2020, 11, 5167.	5.8	135
6	Cooperative interaction of transcription termination factors with the RNA polymerase II C-terminal domain. <i>Nature Structural and Molecular Biology</i> , 2010, 17, 1195-1201.	3.6	124
7	Freeze–thaw cycles as drivers of complex ribozyme assembly. <i>Nature Chemistry</i> , 2015, 7, 502-508.	6.6	113
8	µ/τ systems: their role in resistance, virulence, and their potential for antibiotic development. <i>Journal of Molecular Medicine</i> , 2011, 89, 1183-1194.	1.7	73
9	Heated gas bubbles enrich, crystallize, dry, phosphorylate and encapsulate prebiotic molecules. <i>Nature Chemistry</i> , 2019, 11, 779-788.	6.6	66
10	In vitro self-replication and multicistronic expression of large synthetic genomes. <i>Nature Communications</i> , 2020, 11, 904.	5.8	56
11	Both ATPase Domains of ClpA Are Critical for Processing of Stable Protein Structures. <i>Journal of Biological Chemistry</i> , 2009, 284, 31441-31452.	1.6	47
12	Freeze-thaw cycles induce content exchange between cell-sized lipid vesicles. <i>New Journal of Physics</i> , 2018, 20, 055008.	1.2	46
13	Random-sequence genetic oligomer pools display an innate potential for ligation and recombination. <i>ELife</i> , 2018, 7, .	2.8	43
14	Charge-density reduction promotes ribozyme activity in RNA–peptide coacervates via RNA fluidization and magnesium partitioning. <i>Nature Chemistry</i> , 2022, 14, 407-416.	6.6	41
15	Assembly Pathway of an AAA+ Protein: Tracking ClpA and ClpAP Complex Formation in Real Time. <i>Biochemistry</i> , 2007, 46, 6183-6193.	1.2	37
16	The difficult case of an RNA-only origin of life. <i>Emerging Topics in Life Sciences</i> , 2019, 3, 469-475.	1.1	31
17	Assembly Dynamics and Stability of the Pneumococcal Epsilon Zeta Antitoxin Toxin (PezAT) System from <i>Streptococcus pneumoniae</i> . <i>Journal of Biological Chemistry</i> , 2010, 285, 21797-21806.	1.6	29
18	Non-canonical 3′-5′ Extension of RNA with Prebiotically Plausible Ribonucleoside 2′,3′-Cyclic Phosphates. <i>Journal of the American Chemical Society</i> , 2014, 136, 5193-5196.	6.6	27

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19	MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. <i>Angewandte Chemie</i> , 2018, 130, 13566-13577.	1.6	27
20	Enhanced Ribozyme-Catalyzed Recombination and Oligonucleotide Assembly in Peptide-RNA Condensates. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 26096-26104.	7.2	25
21	Templated Self-Replication in Biomimetic Systems. <i>Advanced Biology</i> , 2019, 3, e1800313.	3.0	24
22	Enzymatic Synthesis of Nucleic Acids with Defined Regioisomeric 2'-5' Linkages. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 15570-15573.	7.2	23
23	Nucleic Acid Catalysis under Potential Prebiotic Conditions. <i>Chemistry - an Asian Journal</i> , 2020, 15, 214-230.	1.7	19
24	Heat flows in rock cracks naturally optimize salt compositions for ribozymes. <i>Nature Chemistry</i> , 2021, 13, 1038-1045.	6.6	16
25	Special Issue on Bottom-Up Synthetic Biology. <i>ChemBioChem</i> , 2019, 20, 2533-2534.	1.3	13
26	Prebiotically Plausible RNA Activation Compatible with Ribozyme-Catalyzed Ligation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2952-2957.	7.2	11
27	Probing self-regeneration of essential protein factors required for in vitro translation activity by serial transfer. <i>Chemical Communications</i> , 2020, 56, 15426-15429.	2.2	10
28	Cell-free expression of RNA encoded genes using MS2 replicase. <i>Nucleic Acids Research</i> , 2019, 47, 10956-10967.	6.5	9
29	In vitro characterisation of the MS2 RNA polymerase complex reveals host factors that modulate emesviral replicase activity. <i>Communications Biology</i> , 2022, 5, 264.	2.0	8
30	Type II Toxin-Antitoxin Loci: The Epsilon/zeta Family. , 2013, , 205-223.		7
31	Enhanced ribozyme-catalyzed recombination and oligonucleotide assembly in peptide-RNA condensates. <i>Angewandte Chemie</i> , 0, , .	1.6	5
32	Präbiotisch plausible RNA-Aktivierung kompatibel mit ribozymkatalysierter Ligation. <i>Angewandte Chemie</i> , 2021, 133, 2988-2993.	1.6	4
33	How DNA and RNA subunits might have formed to make the first genetic alphabet. <i>Nature</i> , 2020, 582, 33-34.	13.7	3
34	Generation of RNA with 2'-3'-Cyclic Phosphates by Deoxyribozyme Cleavage in Frozen Solutions. <i>Methods in Molecular Biology</i> , 2022, 2439, 301-309.	0.4	1
35	Copy, paste, repeat - Über die Synthese von Minimalzellen. <i>BioSpektrum</i> , 2018, 24, 365-367.	0.0	0
36	PCR Methods for the Generation of Catalytic ssDNA. <i>Methods in Molecular Biology</i> , 2022, 2439, 27-44.	0.4	0