

Christof B Mast

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

645
citations

758635

12
h-index

839053

18
g-index

21
all docs

21
docs citations

21
times ranked

572
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-equilibrium conditions inside rock pores drive fission, maintenance and selection of coacervate protocells. Nature Chemistry, 2022, 14, 32-39.	6.6	45
2	Water cycles in a Hadean CO ₂ atmosphere drive the evolution of long DNA. Nature Physics, 2022, 18, 579-585.	6.5	20
3	Heat flows in rock cracks naturally optimize salt compositions for ribozymes. Nature Chemistry, 2021, 13, 1038-1045.	6.6	16
4	Thermal Habitat for RNA Amplification and Accumulation. Physical Review Letters, 2020, 125, 048104.	2.9	34
5	Heated gas bubbles enrich, crystallize, dry, phosphorylate and encapsulate prebiotic molecules. Nature Chemistry, 2019, 11, 779-788.	6.6	66
6	Periodic Melting of Oligonucleotides by Oscillating Salt Concentrations Triggered by Microscale Water Cycles Inside Heated Rock Pores. Angewandte Chemie - International Edition, 2019, 58, 13155-13160.	7.2	26
7	Periodic Melting of Oligonucleotides by Oscillating Salt Concentrations Triggered by Microscale Water Cycles Inside Heated Rock Pores. Angewandte Chemie, 2019, 131, 13289-13294.	1.6	18
8	Optochemical disequilibrium to measure biomolecule charge. Physical Review E, 2018, 98, .	0.8	1
9	Proton gradients and pH oscillations emerge from heat flow at the microscale. Nature Communications, 2017, 8, 1897.	5.8	47
10	Heat-Driven Oligonucleotide Gelation Separates Single-Base Differences (Angew.)	1.6	0
11	Emergence of Life from Trapped Nucleotides? Non-Equilibrium Behavior of Oligonucleotides in Thermal Gradients. Synlett, 2016, 28, 56-63.	1.0	6
12	Heat-Driven Oligonucleotide Gelation Separates Single-Base Differences. Angewandte Chemie, 2016, 128, 6788-6791.	1.6	3
13	Heat-Driven Oligonucleotide Gelation Separates Single-Base Differences. Angewandte Chemie - International Edition, 2016, 55, 6676-6679.	7.2	12
14	Dry Polymerization of 3',5'-Cyclic GMP to Long Strands of RNA. ChemBioChem, 2014, 15, 879-883.	1.3	60
15	Escalation of polymerization in a thermal gradient. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8030-8035.	3.3	133
16	Could Thermal Gradients Drive Molecular Evolution?. Current Organic Chemistry, 2013, 17, 1732-1737.	0.9	3
17	THERMAL SOLUTIONS FOR MOLECULAR EVOLUTION. International Journal of Modern Physics B, 2012, 26, 1230017.	1.0	7
18	Optical fluid and biomolecule transport with thermal fields. Physical Chemistry Chemical Physics, 2011, 13, 9918.	1.3	25

#	ARTICLE	IF	CITATIONS
19	Thermal Trap for DNA Replication. Physical Review Letters, 2010, 104, 188102.	2.9	122