

Simon Kretschmer

List of Publications by Year in descending order

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Version: 2024-02-01

15
papers

421
citations

1039880

9
h-index

1125617

13
g-index

16
all docs

16
docs citations

16
times ranked

484
citing authors

#	ARTICLE	IF	CITATIONS
1	Defined chromosome structure in the genome-reduced bacterium <i>Mycoplasma pneumoniae</i> . <i>Nature Communications</i> , 2017, 8, 14665.	5.8	81
2	MinE conformational switching confers robustness on self-organized Min protein patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4553-4558.	3.3	65
3	Pattern formation on membranes and its role in bacterial cell division. <i>Current Opinion in Cell Biology</i> , 2016, 38, 52-59.	2.6	52
4	Synthetic cell division via membrane-transforming molecular assemblies. <i>BMC Biology</i> , 2019, 17, 43.	1.7	52
5	Stationary Patterns in a Two-Protein Reaction-Diffusion System. <i>ACS Synthetic Biology</i> , 2019, 8, 148-157.	1.9	43
6	Large-scale modulation of reconstituted Min protein patterns and gradients by defined mutations in MinE's membrane targeting sequence. <i>PLoS ONE</i> , 2017, 12, e0179582.	1.1	28
7	Optical Control of a Biological Reaction-Diffusion System. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2362-2366.	7.2	25
8	Protein Pattern Formation. , 2018, , 229-260.		16
9	Toward Spatially Regulated Division of Protocells: Insights into the <i>E. coli</i> Min System from in Vitro Studies. <i>Life</i> , 2014, 4, 915-928.	1.1	15
10	Reverse and forward engineering of protein pattern formation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170104.	1.8	11
11	Increasing MinD's Membrane Affinity Yields Standing Wave Oscillations and Functional Gradients on Flat Membranes. <i>ACS Synthetic Biology</i> , 2021, 10, 939-949.	1.9	11
12	Non-Equilibrium Large-Scale Membrane Transformations Driven by MinDE Biochemical Reaction Cycles. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6496-6502.	7.2	10
13	Optical Control of a Biological Reaction-Diffusion System. <i>Angewandte Chemie</i> , 2018, 130, 2386-2390.	1.6	7
14	Advances in the Computational Design of Small-Molecule-Controlled Protein-Based Circuits for Synthetic Biology. <i>Proceedings of the IEEE</i> , 2022, 110, 659-674.	16.4	5
15	Non-Equilibrium Large-Scale Membrane Transformations Driven by MinDE Biochemical Reaction Cycles. <i>Angewandte Chemie</i> , 2021, 133, 6570-6576.	1.6	0