Simon Kretschmer

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Defined chromosome structure in the genome-reduced bacterium Mycoplasma pneumoniae. Nature Communications, 2017, 8, 14665.	12.8	81
2	MinE conformational switching confers robustness on self-organized Min protein patterns. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4553-4558.	7.1	65
3	Pattern formation on membranes and its role in bacterial cell division. Current Opinion in Cell Biology, 2016, 38, 52-59.	5.4	52
4	Synthetic cell division via membrane-transforming molecular assemblies. BMC Biology, 2019, 17, 43.	3.8	52
5	Stationary Patterns in a Two-Protein Reaction-Diffusion System. ACS Synthetic Biology, 2019, 8, 148-157.	3.8	43
6	Large-scale modulation of reconstituted Min protein patterns and gradients by defined mutations in MinE's membrane targeting sequence. PLoS ONE, 2017, 12, e0179582.	2.5	28
7	Optical Control of a Biological Reaction–Diffusion System. Angewandte Chemie - International Edition, 2018, 57, 2362-2366.	13.8	25
8	Protein Pattern Formation. , 2018, , 229-260.		16
9	Toward Spatially Regulated Division of Protocells: Insights into the E. coli Min System from in Vitro Studies. Life, 2014, 4, 915-928.	2.4	15
10	Reverse and forward engineering of protein pattern formation. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170104.	4.0	11
11	Increasing MinD's Membrane Affinity Yields Standing Wave Oscillations and Functional Gradients on Flat Membranes. ACS Synthetic Biology, 2021, 10, 939-949.	3.8	11
12	Nonâ€Equilibrium Largeâ€Scale Membrane Transformations Driven by MinDE Biochemical Reaction Cycles. Angewandte Chemie - International Edition, 2021, 60, 6496-6502.	13.8	10
13	Optical Control of a Biological Reaction–Diffusion System. Angewandte Chemie, 2018, 130, 2386-2390.	2.0	7
14	Advances in the Computational Design of Small-Molecule-Controlled Protein-Based Circuits for Synthetic Biology. Proceedings of the IEEE, 2022, 110, 659-674.	21.3	5
15	Nonâ€Equilibrium Largeâ€Scale Membrane Transformations Driven by MinDE Biochemical Reaction Cycles. Angewandte Chemie, 2021, 133, 6570-6576.	2.0	0