

Simon Kretschmer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

16
papers

272
citations

9
h-index

16
g-index

16
ext. papers

351
ext. citations

8.5
avg, IF

3.65
L-index

#	Paper	IF	Citations
16	Advances in the Computational Design of Small-Molecule-Controlled Protein-Based Circuits for Synthetic Biology. <i>Proceedings of the IEEE</i> , 2022 , 1-16	14.3	2
15	Increasing MinD& Membrane Affinity Yields Standing Wave Oscillations and Functional Gradients on Flat Membranes. <i>ACS Synthetic Biology</i> , 2021 , 10, 939-949	5.7	1
14	Non-Equilibrium Large-Scale Membrane Transformations Driven by MinDE Biochemical Reaction Cycles. <i>Angewandte Chemie</i> , 2021 , 133, 6570-6576	3.6	
13	Non-Equilibrium Large-Scale Membrane Transformations Driven by MinDE Biochemical Reaction Cycles. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6496-6502	16.4	4
12	Synthetic cell division via membrane-transforming molecular assemblies. <i>BMC Biology</i> , 2019 , 17, 43	7.3	30
11	Stationary Patterns in a Two-Protein Reaction-Diffusion System. <i>ACS Synthetic Biology</i> , 2019 , 8, 148-157	5.7	19
10	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	11.5	43
9	Reverse and forward engineering of protein pattern formation. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018 , 373,	5.8	8
8	Optical Control of a Biological Reaction-Diffusion System. <i>Angewandte Chemie</i> , 2018 , 130, 2386-2390	3.6	4
7	Optical Control of a Biological Reaction-Diffusion System. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 2362-2366	16.4	17
6	Protein Pattern Formation 2018 , 229-260		11
5	Defined chromosome structure in the genome-reduced bacterium <i>Mycoplasma pneumoniae</i> . <i>Nature Communications</i> , 2017 , 8, 14665	17.4	59
4	Large-scale modulation of reconstituted Min protein patterns and gradients by defined mutations in MinE& membrane targeting sequence. <i>PLoS ONE</i> , 2017 , 12, e0179582	3.7	23
3	Pattern formation on membranes and its role in bacterial cell division. <i>Current Opinion in Cell Biology</i> , 2016 , 38, 52-9	9	37
2	Rekonstitution biologischer Selbstorganisation in vitro. <i>BioSpektrum</i> , 2015 , 21, 148-150	0.1	
1	Toward Spatially Regulated Division of Protocells: Insights into the E. coli Min System from in Vitro Studies. <i>Life</i> , 2014 , 4, 915-28	3	14