

# Matthias Christen

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

1,573  
citations

516710

16  
h-index

713466

21  
g-index

23  
all docs

23  
docs citations

23  
times ranked

2007  
citing authors

#	ARTICLE	IF	CITATIONS
1	Allosteric Control of Cyclic di-GMP Signaling. <i>Journal of Biological Chemistry</i> , 2006, 281, 32015-32024.	3.4	260
2	Asymmetrical Distribution of the Second Messenger c-di-GMP upon Bacterial Cell Division. <i>Science</i> , 2010, 328, 1295-1297.	12.6	245
3	DgrA is a member of a new family of cyclic diguanosine monophosphate receptors and controls flagellar motor function in <i>Caulobacter crescentus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 4112-4117.	7.1	185
4	Mind-controlled transgene expression by a wireless-powered optogenetic designer cell implant. <i>Nature Communications</i> , 2014, 5, 5392.	12.8	108
5	Pharmaceutically controlled designer circuit for the treatment of the metabolic syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 141-146.	7.1	107
6	c-di-GMP heterogeneity is generated by the chemotaxis machinery to regulate flagellar motility. <i>ELife</i> , 2013, 2, e01402.	6.0	103
7	The response threshold of <i>S. almonella</i> PilZ domain proteins is determined by their binding affinities for c-di-GMP. <i>Molecular Microbiology</i> , 2012, 86, 1424-1440.	2.5	84
8	Chemical synthesis rewriting of a bacterial genome to achieve design flexibility and biological functionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8070-8079.	7.1	69
9	Import of Aspartate and Malate by DcuABC Drives H <sub>2</sub> /Fumarate Respiration to Promote Initial <i>Salmonella</i> Gut-Lumen Colonization in Mice. <i>Cell Host and Microbe</i> , 2020, 27, 922-936.e6.	11.0	58
10	Activation of a Bacterial Virulence Protein by the GTPase RhoA. <i>Science Signaling</i> , 2009, 2, ra71.	3.6	50
11	Quantitative Selection Analysis of Bacteriophage $\phi$ CbK Susceptibility in <i>Caulobacter crescentus</i> . <i>Journal of Molecular Biology</i> , 2016, 428, 419-430.	4.2	49
12	Gene Transfer Agent Promotes Evolvability within the Fittest Subpopulation of a Bacterial Pathogen. <i>Cell Systems</i> , 2017, 4, 611-621.e6.	6.2	47
13	Transposon Sequencing of <i>Brucella abortus</i> Uncovers Essential Genes for Growth <i>In Vitro</i> and Inside Macrophages. <i>Infection and Immunity</i> , 2018, 86, .	2.2	47
14	The type IV pilin PilA couples surface attachment and cell-cycle initiation in <i>Caulobacter crescentus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9546-9553.	7.1	44
15	Transposon Sequencing Uncovers an Essential Regulatory Function of Phosphoribulokinase for Methylotrophy. <i>Current Biology</i> , 2017, 27, 2579-2588.e6.	3.9	34
16	Co-catabolism of arginine and succinate drives symbiotic nitrogen fixation. <i>Molecular Systems Biology</i> , 2020, 16, e9419.	7.2	33
17	Genome Calligrapher: A Web Tool for Refactoring Bacterial Genome Sequences for <i>de Novo</i> DNA Synthesis. <i>ACS Synthetic Biology</i> , 2015, 4, 927-934.	3.8	16
18	Identification of Small Molecule Modulators of Diguanylate Cyclase by FRET-Based High-Throughput Screening. <i>ChemBioChem</i> , 2019, 20, 394-407.	2.6	14

#	ARTICLE	IF	CITATIONS
19	YestroSens, a field-portable <i>S. cerevisiae</i> biosensor device for the detection of endocrine-disrupting chemicals: Reliability and stability. <i>Biosensors and Bioelectronics</i> , 2019, 146, 111710.	10.1	12
20	The transcriptional landscape of a rewritten bacterial genome reveals control elements and genome design principles. <i>Nature Communications</i> , 2021, 12, 3053.	12.8	3
21	Genome Partitioner: A web tool for multi-level partitioning of large-scale DNA constructs for synthetic biology applications. <i>PLoS ONE</i> , 2017, 12, e0177234.	2.5	2