

Beat Christen

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

2,499
citations

430874

18
h-index

580821

25
g-index

29
all docs

29
docs citations

29
times ranked

3006
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification and Characterization of a Cyclic di-GMP-specific Phosphodiesterase and Its Allosteric Control by GTP. <i>Journal of Biological Chemistry</i> , 2005, 280, 30829-30837.	3.4	452
2	Genetic Analysis of a Novel Pathway for d -Xylose Metabolism in <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , 2007, 189, 2181-2185.	2.2	408
3	The essential genome of a bacterium. <i>Molecular Systems Biology</i> , 2011, 7, 528.	7.2	279
4	Allosteric Control of Cyclic di-GMP Signaling. <i>Journal of Biological Chemistry</i> , 2006, 281, 32015-32024.	3.4	260
5	Asymmetrical Distribution of the Second Messenger c-di-GMP upon Bacterial Cell Division. <i>Science</i> , 2010, 328, 1295-1297.	12.6	245
6	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
7	Allosteric Control of Cyclic di-GMP Signaling. <i>Journal of Biological Chemistry</i> , 2006, 281, 32015-32024.	3.4	100
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 ₂ /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	Quantitative Selection Analysis of Bacteriophage ϕ CbK Susceptibility in <i>Caulobacter crescentus</i> . <i>Journal of Molecular Biology</i> , 2016, 428, 419-430.	4.2	49
11	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
12	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
13	High-throughput identification of protein localization dependency networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 4681-4686.	7.1	45
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	Regulation of <i>scpD</i> -Xylose Metabolism in <i>Caulobacter crescentus</i> by a LacI-Type Repressor. <i>Journal of Bacteriology</i> , 2007, 189, 8828-8834.	2.2	38
16	Transposon Sequencing Uncovers an Essential Regulatory Function of Phosphoribulokinase for Methylo trophy. <i>Current Biology</i> , 2017, 27, 2579-2588.e6.	3.9	34
17	Co ϵ catabolism of arginine and succinate drives symbiotic nitrogen fixation. <i>Molecular Systems Biology</i> , 2020, 16, e9419.	7.2	33
18	Transposon Mutagenesis Paired with Deep Sequencing of <i>Caulobacter crescentus</i> under Uranium Stress Reveals Genes Essential for Detoxification and Stress Tolerance. <i>Journal of Bacteriology</i> , 2015, 197, 3160-3172.	2.2	32

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19	Structure of the pilus assembly protein TadZ from <i>Eubacterium rectale</i> : implications for polar localization. <i>Molecular Microbiology</i> , 2012, 83, 712-727.	2.5	22
20	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
21	Identification of Small-Molecule Modulators of Diguanylate Cyclase by FRET-Based High-Throughput Screening. <i>ChemBioChem</i> , 2019, 20, 394-407.	2.6	14
22	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
23	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
24	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
25	Stressed <i>Serratia curb</i> CRISPR. <i>Nature Microbiology</i> , 2021, 6, 149-150.	13.3	1
26	Import of Aspartate and Malate by DcuABC Drives H ₂ /Fumarate Respiration to Promote <i>Salmonella</i> Gut-Luminal Colonization. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1