

# Martin Thanbichler

## List of Publications by Year in descending order

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67  
papers

3,897  
citations

147801

31  
h-index

138484

58  
g-index

75  
all docs

75  
docs citations

75  
times ranked

3072  
citing authors

#	ARTICLE	IF	CITATIONS
1	MipZ, a Spatial Regulator Coordinating Chromosome Segregation with Cell Division in <i>Caulobacter</i> . <i>Cell</i> , 2006, 126, 147-162.	28.9	445
2	Rapid and sequential movement of individual chromosomal loci to specific subcellular locations during bacterial DNA replication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 9257-9262.	7.1	388
3	A comprehensive set of plasmids for vanillate- and xylose-inducible gene expression in <i>Caulobacter crescentus</i> . <i>Nucleic Acids Research</i> , 2007, 35, e137-e137.	14.5	305
4	A Family of S-Methylmethionine-dependent Thiol/Selenol Methyltransferases. <i>Journal of Biological Chemistry</i> , 1999, 274, 5407-5414.	3.4	172
5	Bactofilins, a ubiquitous class of cytoskeletal proteins mediating polar localization of a cell wall synthase in <i>Caulobacter crescentus</i> . <i>EMBO Journal</i> , 2010, 29, 327-339.	7.8	143
6	ParB-type DNA Segregation Proteins Are CTP-Dependent Molecular Switches. <i>Cell</i> , 2019, 179, 1512-1524.e15.	28.9	136
7	The dynamic interplay between a cell fate determinant and a lysozyme homolog drives the asymmetric division cycle of <i>Caulobacter crescentus</i> . <i>Genes and Development</i> , 2008, 22, 212-225.	5.9	127
8	Getting organized – how bacterial cells move proteins and DNA. <i>Nature Reviews Microbiology</i> , 2008, 6, 28-40.	28.6	112
9	The bacterial nucleoid: A highly organized and dynamic structure. <i>Journal of Cellular Biochemistry</i> , 2005, 96, 506-521.	2.6	110
10	Localized Dimerization and Nucleoid Binding Drive Gradient Formation by the Bacterial Cell Division Inhibitor MipZ. <i>Molecular Cell</i> , 2012, 46, 245-259.	9.7	105
11	Selenocysteine tRNA-specific elongation factor SelB is a structural chimaera of elongation and initiation factors. <i>EMBO Journal</i> , 2005, 24, 11-22.	7.8	102
12	Chromosome organization and segregation in bacteria. <i>Journal of Structural Biology</i> , 2006, 156, 292-303.	2.8	83
13	DipM, a new factor required for peptidoglycan remodelling during cell division in <i>Caulobacter crescentus</i> . <i>Molecular Microbiology</i> , 2010, 77, 90-107.	2.5	76
14	FtsN-like proteins are conserved components of the cell division machinery in proteobacteria. <i>Molecular Microbiology</i> , 2009, 72, 1037-1053.	2.5	74
15	General Protein Diffusion Barriers Create Compartments within Bacterial Cells. <i>Cell</i> , 2012, 151, 1270-1282.	28.9	68
16	S-Methylmethionine Metabolism in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1999, 181, 662-665.	2.2	67
17	Atomic-resolution structure of cytoskeletal bactofilin by solid-state NMR. <i>Science Advances</i> , 2015, 1, e1501087.	10.3	64
18	Bactofilin-mediated organization of the ParABS chromosome segregation system in <i>Myxococcus xanthus</i> . <i>Nature Communications</i> , 2017, 8, 1817.	12.8	58

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19	Spatiotemporal organization of microbial cells by protein concentration gradients. Trends in Microbiology, 2014, 22, 65-73.	7.7	56
20	Two Small GTPases Act in Concert with the Bactofilin Cytoskeleton to Regulate Dynamic Bacterial Cell Polarity. Developmental Cell, 2013, 25, 119-131.	7.0	55
21	$\hat{\nu}$ -Helical architecture of cytoskeletal bactofilin filaments revealed by solid-state NMR. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E127-36.	7.1	54
22	Kinetics of the Interaction of Translation Factor SelB from Escherichia coli with Guanosine Nucleotides and Selenocysteine Insertion Sequence RNA. Journal of Biological Chemistry, 2000, 275, 20458-20466.	3.4	53
23	DCAP: A Broad-Spectrum Antibiotic That Targets the Cytoplasmic Membrane of Bacteria. Journal of the American Chemical Society, 2012, 134, 11322-11325.	13.7	53
24	BacStalk: A comprehensive and interactive image analysis software tool for bacterial cell biology. Molecular Microbiology, 2020, 114, 140-150.	2.5	53
25	The structure and function of the bacterial chromosome. Current Opinion in Genetics and Development, 2005, 15, 153-162.	3.3	51
26	Nucleotide-independent cytoskeletal scaffolds in bacteria. Cytoskeleton, 2013, 70, 409-423.	2.0	50
27	Synchronization of Chromosome Dynamics and Cell Division in Bacteria. Cold Spring Harbor Perspectives in Biology, 2010, 2, a000331-a000331.	5.5	49
28	The function of SECIS RNA in translational control of gene expression in Escherichia coli. EMBO Journal, 2002, 21, 6925-6934.	7.8	45
29	The choreographed dynamics of bacterial chromosomes. Trends in Microbiology, 2005, 13, 221-228.	7.7	42
30	Bio-Layer Interferometry Analysis of the Target Binding Activity of CRISPR-Cas Effector Complexes. Frontiers in Molecular Biosciences, 2020, 7, 98.	3.5	39
31	Activated chemoreceptor arrays remain intact and hexagonally packed. Molecular Microbiology, 2011, 82, 748-757.	2.5	38
32	Physiological role of stalk lengthening in <i>Caulobacter crescentus</i> . Communicative and Integrative Biology, 2013, 6, e24561.	1.4	38
33	The CTPase activity of ParB determines the size and dynamics of prokaryotic DNA partition complexes. Molecular Cell, 2021, 81, 3992-4007.e10.	9.7	37
34	Strep-Tag II Affinity Purification: An Approach to Study Intermediates of Metalloenzyme Biosynthesis. Analytical Biochemistry, 1998, 259, 68-73.	2.4	36
35	Dynamics of the peptidoglycan biosynthetic machinery in the stalked budding bacterium <i>Hyphomonas neptunium</i> . Molecular Microbiology, 2017, 103, 875-895.	2.5	35
36	Bacterial cell growth is arrested by violet and blue, but not yellow light excitation during fluorescence microscopy. BMC Molecular and Cell Biology, 2020, 21, 35.	2.0	32

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37	A specialized MreB-dependent cell wall biosynthetic complex mediates the formation of stalk-specific peptidoglycan in <i>Caulobacter crescentus</i> . <i>PLoS Genetics</i> , 2019, 15, e1007897.	3.5	31
38	Selenoprotein Biosynthesis: Purification and Assay of Components Involved in Selenocysteine Biosynthesis and Insertion in <i>Escherichia coli</i> . <i>Methods in Enzymology</i> , 2002, 347, 3-16.	1.0	29
39	Spatial regulation in <i>Caulobacter crescentus</i> . <i>Current Opinion in Microbiology</i> , 2009, 12, 715-721.	5.1	29
40	A Family of Single Copy <i>repABC</i> -Type Shuttle Vectors Stably Maintained in the Alpha-Proteobacterium <i>Sinorhizobium meliloti</i> . <i>ACS Synthetic Biology</i> , 2017, 6, 968-984.	3.8	29
41	Two-step chromosome segregation in the stalked budding bacterium <i>Hyphomonas neptunium</i> . <i>Nature Communications</i> , 2019, 10, 3290.	12.8	29
42	Functional Analysis of Prokaryotic SELB proteins. <i>BioFactors</i> , 2001, 14, 53-59.	5.4	27
43	Characterization of <i>Caulobacter crescentus</i> FtsZ Protein Using Dynamic Light Scattering. <i>Journal of Biological Chemistry</i> , 2012, 287, 23878-23886.	3.4	26
44	LytM factors affect the recruitment of autolysins to the cell division site in <i>Caulobacter crescentus</i> . <i>Molecular Microbiology</i> , 2017, 106, 419-438.	2.5	26
45	Function and Localization Dynamics of Bifunctional Penicillin-Binding Proteins in <i>Caulobacter crescentus</i> . <i>Journal of Bacteriology</i> , 2014, 196, 1627-1639.	2.2	24
46	Molecular Toolbox for Genetic Manipulation of the Stalked Budding Bacterium <i>Hyphomonas neptunium</i> . <i>Applied and Environmental Microbiology</i> , 2015, 81, 736-744.	3.1	24
47	Molecular architecture of the DNA-binding sites of the P-loop ATPases MipZ and ParA from <i>Caulobacter crescentus</i> . <i>Nucleic Acids Research</i> , 2020, 48, 4769-4779.	14.5	23
48	Divin: A Small Molecule Inhibitor of Bacterial Divisome Assembly. <i>Journal of the American Chemical Society</i> , 2013, 135, 9768-9776.	13.7	17
49	A Fluorescent Bioreporter for Acetophenone and 1-Phenylethanol derived from a Specifically Induced Catabolic Operon. <i>Frontiers in Microbiology</i> , 2015, 6, 1561.	3.5	17
50	Learning the distribution of single-cell chromosome conformations in bacteria reveals emergent order across genomic scales. <i>Nature Communications</i> , 2021, 12, 1963.	12.8	14
51	Generating asymmetry in a changing environment: cell cycle regulation in dimorphic alphaproteobacteria. <i>Biological Chemistry</i> , 2020, 401, 1349-1363.	2.5	13
52	A gradient-forming MipZ protein mediating the control of cell division in the magnetotactic bacterium <i>Magnetospirillum gryphiswaldense</i> . <i>Molecular Microbiology</i> , 2019, 112, 1423-1439.	2.5	12
53	Dynamic Metabolic Rewiring Enables Efficient Acetyl Coenzyme A Assimilation in <i>Paracoccus denitrificans</i> . <i>MBio</i> , 2019, 10, .	4.1	11
54	Effect of the Min System on Timing of Cell Division in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2014, 9, e103863.	2.5	10

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55	Plasmid segregation by a moving ATPase gradient. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4741-4742.	7.1	10
56	Mutations targeting the plug domain of the <i>Sewanella oneidensis</i> proton-driven stator allow swimming at increased viscosity and under anaerobic conditions. Molecular Microbiology, 2016, 102, 925-938.	2.5	10
57	Integrative and quantitative view of the CtrA regulatory network in a stalked budding bacterium. PLoS Genetics, 2020, 16, e1008724.	3.5	8
58	Purification and characterization of hexahistidine-tagged elongation factor SelB. Protein Expression and Purification, 2003, 31, 265-270.	1.3	6
59	Closing The Ring: A New Twist to Bacterial Chromosome Condensation. Cell, 2009, 137, 598-600.	28.9	5
60	Good things come in small packages: Subcellular organization and development in bacteria. Current Opinion in Microbiology, 2011, 14, 687-690.	5.1	3
61	Cell Division: Symbiotic Bacteria Turn It Upside Down. Current Biology, 2018, 28, R306-R308.	3.9	3
62	Integrative and quantitative view of the CtrA regulatory network in a stalked budding bacterium. , 2020, 16, e1008724.		0
63	Integrative and quantitative view of the CtrA regulatory network in a stalked budding bacterium. , 2020, 16, e1008724.		0
64	Integrative and quantitative view of the CtrA regulatory network in a stalked budding bacterium. , 2020, 16, e1008724.		0
65	Integrative and quantitative view of the CtrA regulatory network in a stalked budding bacterium. , 2020, 16, e1008724.		0
66	Integrative and quantitative view of the CtrA regulatory network in a stalked budding bacterium. , 2020, 16, e1008724.		0
67	Integrative and quantitative view of the CtrA regulatory network in a stalked budding bacterium. , 2020, 16, e1008724.		0