Dirk-Jan Scheffers

List of Publications by Year
in descending order

52 papers	2,501 citations	331259 21 h-index	205818 48 g-index
56 all docs	56 docs citations	56 times ranked	2776 citing authors

#	Article	IF	Citations
1	Cytokinesis in Bacteria. Microbiology and Molecular Biology Reviews, 2003, 67, 52-65.	2.9	548
2	Bacterial Cell Wall Synthesis: New Insights from Localization Studies. Microbiology and Molecular Biology Reviews, 2005, 69, 585-607.	2.9	499
3	GTP Hydrolysis of Cell Division Protein FtsZ:â€‰ Evidence that the Active Site Is Formed by the Association of Monomers. Biochemistry, 2002, 41, 521-529.	1.2	144
4	Several distinct localization patterns for penicillin-binding proteins in Bacillus subtilis. Molecular Microbiology, 2003, 51, 749-764.	1.2	136
5	Localization and Interactions of Teichoic Acid Synthetic Enzymes in Bacillus subtilis. Journal of Bacteriology, 2008, 190, 1812-1821.	1.0	79
6	R174 of Escherichia coli FtsZ is involved in membrane interaction and protofilament bundling, and is essential for cell division. Molecular Microbiology, 2003, 51, 645-657.	1.2	78
7	Large ring polymers align FtsZ polymers for normal septum formation. EMBO Journal, 2011, 30, 617-626.	3.5	73
8	The polymerization mechanism of the bacterial cell division protein FtsZ. FEBS Letters, 2001, 506, 6-10.	1.3	57
9	Flotillin-mediated membrane fluidity controls peptidoglycan synthesis and MreB movement. ELife, 2020, 9, .	2.8	52
10	Non-hydrolysable GTP-gamma-S stabilizes the FtsZ polymer in a GDP-bound state. Molecular Microbiology, 2000, 35, 1211-1219.	1.2	51
11	PBP1 Is a Component of the Bacillus subtilis Cell Division Machinery. Journal of Bacteriology, 2004, 186, 5153-5156.	1.0	51
12	Bacillus subtilis SepF Binds to the C-Terminus of FtsZ. PLoS ONE, 2012, 7, e43293.	1.1	50
13	The effect of MinC on FtsZ polymerization is pH dependent and can be counteracted by ZapA. FEBS Letters, 2008, 582, 2601-2608.	1.3	45
14	Antibacterial activity of alkyl gallates is a combination of direct targeting of FtsZ and permeabilization of bacterial membranes. Frontiers in Microbiology, 2015, 6, 390.	1.5	43
15	Immediate GTP hydrolysis upon FtsZ polymerization. Molecular Microbiology, 2002, 43, 1517-1521.	1.2	39
16	LipidII: Just Another Brick in the Wall?. PLoS Pathogens, 2015, 11, e1005213.	2.1	30
17	Substitution of a conserved aspartate allows cation-induced polymerization of FtsZ. FEBS Letters, 2001, 494, 34-37.	1.3	28
18	A 1â€‰MDa protein complex containing critical components of the Escherichia coli divisome. Scientific Reports, 2016, 5, 18190.	1.6	28

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19	A simplified curcumin targets the membrane of <i>Bacillus subtilis</i>. MicrobiologyOpen, 2019, 8, e00683.	1.2	28
20	An Organogold Compound as Potential Antimicrobial Agent against Drugâ€Resistant Bacteria: Initial Mechanistic Insights. ChemMedChem, 2021, 16, 3060-3070.	1.6	26
21	Pentapeptideâ€rich peptidoglycan at the <i>Bacillus subtilis</i> cellâ€division site. Molecular Microbiology, 2017, 104, 319-333.	1.2	25
22	Antibacterial activity of monoacetylated alkyl gallates against Xanthomonas citri subsp. citri. Archives of Microbiology, 2018, 200, 929-937.	1.0	23
23	YidC is required for the assembly of the MscL homopentameric pore. FEBS Journal, 2009, 276, 4891-4899.	2.2	22
24	The localization of key <i><scp>B</scp>acillus subtilis</i> penicillin binding proteins during cell growth is determined by substrate availability. Environmental Microbiology, 2013, 15, 3272-3281.	1.8	22
25	Dynamic localization of penicillin-binding proteins during spore development in Bacillus subtilis. Microbiology (United Kingdom), 2005, 151, 999-1012.	0.7	21
26	FtsZ-Dependent Elongation of a Coccoid Bacterium. MBio, 2016, 7, .	1.8	21
27	Contribution of the FtsQ Transmembrane Segment to Localization to the Cell Division Site. Journal of Bacteriology, 2007, 189, 7273-7280.	1.0	19
28	The Escherichia coli Membrane Protein Insertase YidC Assists in the Biogenesis of Penicillin Binding Proteins. Journal of Bacteriology, 2015, 197, 1444-1450.	1.0	19
29	Characterization of two relacidines belonging to a novel class of circular lipopeptides that act against Gramâ€negative bacterial pathogens. Environmental Microbiology, 2020, 22, 5125-5136.	1.8	19
30	Phage Ï•29 protein p1 promotes replication by associating with the FtsZ ring of the divisome in <i>Bacillus subtilis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12313-12318.	3.3	18
31	The Cell Wall of <i>Bacillus subtilis</i>. Current Issues in Molecular Biology, 2021, 41, 539-596.	1.0	18
32	FtsZ Polymerization Assays: Simple Protocols and Considerations. Journal of Visualized Experiments, 2013, , e50844.	0.2	17
33	Design of Antibacterial Agents: Alkyl Dihydroxybenzoates against Xanthomonas citri subsp. citri. International Journal of Molecular Sciences, 2018, 19, 3050.	1.8	14
34	Antibacterial activity of 3,3â€²-dihydroxycurcumin (DHC) is associated with membrane perturbation. Bioorganic Chemistry, 2019, 90, 103031.	2.0	14
35	Xanthomonas citri MinC Oscillates from Pole to Pole to Ensure Proper Cell Division and Shape. Frontiers in Microbiology, 2017, 8, 1352.	1.5	13
36	<i>In Vivo</i> Cluster Formation of Nisin and Lipid II Is Correlated with Membrane Depolarization. Antimicrobial Agents and Chemotherapy, 2015, 59, 3683-3686.	1.4	12

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37	Novel Modifications of Nonribosomal Peptides from Brevibacillus laterosporus MG64 and Investigation of Their Mode of Action. Applied and Environmental Microbiology, 2020, 86, .	1.4	12
38	Focus on Membrane Differentiation and Membrane Domains in the Prokaryotic Cell. Journal of Molecular Microbiology and Biotechnology, 2013, 23, 345-356.	1.0	11
39	The PASTA domains of Bacillus subtilis PBP2B strengthen the interaction of PBP2B with DivIB. Microbiology (United Kingdom), 2020, 166, 826-836.	0.7	11
40	Characterization of ftsZ Mutations that Render Bacillus subtilis Resistant to MinC. PLoS ONE, 2010, 5, e12048.	1.1	11
41	Antibacterial activity of a new monocarbonyl analog of curcumin MAC 4 is associated with divisome disruption. Bioorganic Chemistry, 2021, 109, 104668.	2.0	9
42	Diffusion nuclear magnetic resonance spectroscopy detects substoichiometric concentrations of small molecules in protein samples. Analytical Biochemistry, 2010, 396, 117-123.	1.1	8
43	Balanced transcription of cell division genes in <i><scp>B</scp>acillus subtilis</i> as revealed by single cell analysis. Environmental Microbiology, 2013, 15, 3196-3209.	1.8	8
44	Metal-dependent SpoIIE oligomerization stabilizes FtsZ during asymmetric division in Bacillus subtilis. PLoS ONE, 2017, 12, e0174713.	1.1	8
45	Activators of the Glutamate-Dependent Acid Resistance System Alleviate Deleterious Effects of YidC Depletion in<i>Escherichia coli</i>. Journal of Bacteriology, 2011, 193, 1308-1316.	1.0	7
46	Bicyclic enol cyclocarbamates inhibit penicillin-binding proteins. Organic and Biomolecular Chemistry, 2017, 15, 894-910.	1.5	6
47	Investigating the Modes of Action of the Antimicrobial Chalcones BC1 and T9A. Molecules, 2020, 25, 4596.	1.7	6
48	Cell wall growth during elongation and division: one ring to bind them?. Molecular Microbiology, 2007, 64, 877-880.	1.2	4
49	Bacterial dynamin as a membrane puncture repair kit. Environmental Microbiology, 2016, 18, 2298-2301.	1.8	4
50	Defining the Region of Bacillus subtilis SpoIIIJ That Is Essential for Its Sporulation-Specific Function. Journal of Bacteriology, 2014, 196, 1318-1324.	1.0	3
51	Purification and characterization of FtsZ from the citrus canker pathogenXanthomonas citrisubsp.citri. MicrobiologyOpen, 2019, 8, e00706.	1.2	3
52	Benzenetriol-Derived Compounds against Citrus Canker. Molecules, 2021, 26, 1436.	1.7	2