

Dirk-Jan Scheffers

List of Publications by Year in descending order

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52
papers

2,501
citations

331670

21
h-index

206112

48
g-index

56
all docs

56
docs citations

56
times ranked

2776
citing authors

#	ARTICLE	IF	CITATIONS
1	Cytokinesis in Bacteria. <i>Microbiology and Molecular Biology Reviews</i> , 2003, 67, 52-65.	6.6	548
2	Bacterial Cell Wall Synthesis: New Insights from Localization Studies. <i>Microbiology and Molecular Biology Reviews</i> , 2005, 69, 585-607.	6.6	499
3	GTP Hydrolysis of Cell Division Protein FtsZ: Evidence that the Active Site Is Formed by the Association of Monomers. <i>Biochemistry</i> , 2002, 41, 521-529.	2.5	144
4	Several distinct localization patterns for penicillin-binding proteins in <i>Bacillus subtilis</i> . <i>Molecular Microbiology</i> , 2003, 51, 749-764.	2.5	136
5	Localization and Interactions of Teichoic Acid Synthetic Enzymes in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2008, 190, 1812-1821.	2.2	79
6	R174 of <i>Escherichia coli</i> FtsZ is involved in membrane interaction and protofilament bundling, and is essential for cell division. <i>Molecular Microbiology</i> , 2003, 51, 645-657.	2.5	78
7	Large ring polymers align FtsZ polymers for normal septum formation. <i>EMBO Journal</i> , 2011, 30, 617-626.	7.8	73
8	The polymerization mechanism of the bacterial cell division protein FtsZ. <i>FEBS Letters</i> , 2001, 506, 6-10.	2.8	57
9	Flotillin-mediated membrane fluidity controls peptidoglycan synthesis and MreB movement. <i>ELife</i> , 2020, 9, .	6.0	52
10	Non-hydrolysable GTP-gamma-S stabilizes the FtsZ polymer in a GDP-bound state. <i>Molecular Microbiology</i> , 2000, 35, 1211-1219.	2.5	51
11	PBP1 Is a Component of the <i>Bacillus subtilis</i> Cell Division Machinery. <i>Journal of Bacteriology</i> , 2004, 186, 5153-5156.	2.2	51
12	<i>Bacillus subtilis</i> SepF Binds to the C-Terminus of FtsZ. <i>PLoS ONE</i> , 2012, 7, e43293.	2.5	50
13	The effect of MinC on FtsZ polymerization is pH dependent and can be counteracted by ZapA. <i>FEBS Letters</i> , 2008, 582, 2601-2608.	2.8	45
14	Antibacterial activity of alkyl gallates is a combination of direct targeting of FtsZ and permeabilization of bacterial membranes. <i>Frontiers in Microbiology</i> , 2015, 6, 390.	3.5	43
15	Immediate GTP hydrolysis upon FtsZ polymerization. <i>Molecular Microbiology</i> , 2002, 43, 1517-1521.	2.5	39
16	LipidIII: Just Another Brick in the Wall?. <i>PLoS Pathogens</i> , 2015, 11, e1005213.	4.7	30
17	Substitution of a conserved aspartate allows cation-induced polymerization of FtsZ. <i>FEBS Letters</i> , 2001, 494, 34-37.	2.8	28
18	A 1.6MDa protein complex containing critical components of the <i>Escherichia coli</i> divisome. <i>Scientific Reports</i> , 2016, 5, 18190.	3.3	28

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19	A simplified curcumin targets the membrane of <i>Bacillus subtilis</i> . <i>MicrobiologyOpen</i> , 2019, 8, e00683.	3.0	28
20	An Organogold Compound as Potential Antimicrobial Agent against Drug-Resistant Bacteria: Initial Mechanistic Insights. <i>ChemMedChem</i> , 2021, 16, 3060-3070.	3.2	26
21	Pentapeptide-rich peptidoglycan at the <i>Bacillus subtilis</i> cell division site. <i>Molecular Microbiology</i> , 2017, 104, 319-333.	2.5	25
22	Antibacterial activity of monoacetylated alkyl gallates against <i>Xanthomonas citri</i> subsp. <i>citri</i> . <i>Archives of Microbiology</i> , 2018, 200, 929-937.	2.2	23
23	YidC is required for the assembly of the MscL homopentameric pore. <i>FEBS Journal</i> , 2009, 276, 4891-4899.	4.7	22
24	The localization of key <i>Bacillus subtilis</i> penicillin binding proteins during cell growth is determined by substrate availability. <i>Environmental Microbiology</i> , 2013, 15, 3272-3281.	3.8	22
25	Dynamic localization of penicillin-binding proteins during spore development in <i>Bacillus subtilis</i> . <i>Microbiology (United Kingdom)</i> , 2005, 151, 999-1012.	1.8	21
26	FtsZ-Dependent Elongation of a Coccoid Bacterium. <i>MBio</i> , 2016, 7, .	4.1	21
27	Contribution of the FtsQ Transmembrane Segment to Localization to the Cell Division Site. <i>Journal of Bacteriology</i> , 2007, 189, 7273-7280.	2.2	19
28	The <i>Escherichia coli</i> Membrane Protein Insertase YidC Assists in the Biogenesis of Penicillin Binding Proteins. <i>Journal of Bacteriology</i> , 2015, 197, 1444-1450.	2.2	19
29	Characterization of two relacidines belonging to a novel class of circular lipopeptides that act against Gram-negative bacterial pathogens. <i>Environmental Microbiology</i> , 2020, 22, 5125-5136.	3.8	19
30	Phage ϕ 29 protein p1 promotes replication by associating with the FtsZ ring of the divisome in <i>Bacillus subtilis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12313-12318.	7.1	18
31	The Cell Wall of <i>Bacillus subtilis</i> . <i>Current Issues in Molecular Biology</i> , 2021, 41, 539-596.	2.4	18
32	FtsZ Polymerization Assays: Simple Protocols and Considerations. <i>Journal of Visualized Experiments</i> , 2013, , e50844.	0.3	17
33	Design of Antibacterial Agents: Alkyl Dihydroxybenzoates against <i>Xanthomonas citri</i> subsp. <i>citri</i> . <i>International Journal of Molecular Sciences</i> , 2018, 19, 3050.	4.1	14
34	Antibacterial activity of 3,3'-dihydroxycurcumin (DHC) is associated with membrane perturbation. <i>Bioorganic Chemistry</i> , 2019, 90, 103031.	4.1	14
35	<i>Xanthomonas citri</i> MinC Oscillates from Pole to Pole to Ensure Proper Cell Division and Shape. <i>Frontiers in Microbiology</i> , 2017, 8, 1352.	3.5	13
36	<i>In Vivo</i> Cluster Formation of Nisin and Lipid II Is Correlated with Membrane Depolarization. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 3683-3686.	3.2	12

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37	Novel Modifications of Nonribosomal Peptides from <i>Brevibacillus laterosporus</i> MG64 and Investigation of Their Mode of Action. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	12
38	Focus on Membrane Differentiation and Membrane Domains in the Prokaryotic Cell. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2013, 23, 345-356.	1.0	11
39	The PASTA domains of <i>Bacillus subtilis</i> PBP2B strengthen the interaction of PBP2B with DivIB. <i>Microbiology (United Kingdom)</i> , 2020, 166, 826-836.	1.8	11
40	Characterization of <i>ftsZ</i> Mutations that Render <i>Bacillus subtilis</i> Resistant to MinC. <i>PLoS ONE</i> , 2010, 5, e12048.	2.5	11
41	Antibacterial activity of a new monocarbonyl analog of curcumin MAC 4 is associated with divisome disruption. <i>Bioorganic Chemistry</i> , 2021, 109, 104668.	4.1	9
42	Diffusion nuclear magnetic resonance spectroscopy detects substoichiometric concentrations of small molecules in protein samples. <i>Analytical Biochemistry</i> , 2010, 396, 117-123.	2.4	8
43	Balanced transcription of cell division genes in <i>Bacillus subtilis</i> as revealed by single cell analysis. <i>Environmental Microbiology</i> , 2013, 15, 3196-3209.	3.8	8
44	Metal-dependent SpoII _E oligomerization stabilizes FtsZ during asymmetric division in <i>Bacillus subtilis</i> . <i>PLoS ONE</i> , 2017, 12, e0174713.	2.5	8
45	Activators of the Glutamate-Dependent Acid Resistance System Alleviate Deleterious Effects of YidC Depletion in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2011, 193, 1308-1316.	2.2	7
46	Bicyclic enol cyclocarbamates inhibit penicillin-binding proteins. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 894-910.	2.8	6
47	Investigating the Modes of Action of the Antimicrobial Chalcones BC1 and T9A. <i>Molecules</i> , 2020, 25, 4596.	3.8	6
48	Cell wall growth during elongation and division: one ring to bind them?. <i>Molecular Microbiology</i> , 2007, 64, 877-880.	2.5	4
49	Bacterial dynamin as a membrane puncture repair kit. <i>Environmental Microbiology</i> , 2016, 18, 2298-2301.	3.8	4
50	Defining the Region of <i>Bacillus subtilis</i> SpoII _J That Is Essential for Its Sporulation-Specific Function. <i>Journal of Bacteriology</i> , 2014, 196, 1318-1324.	2.2	3
51	Purification and characterization of FtsZ from the citrus canker pathogen <i>Xanthomonas citris</i> subsp. <i>citri</i> . <i>MicrobiologyOpen</i> , 2019, 8, e00706.	3.0	3
52	Benzenetriol-Derived Compounds against Citrus Canker. <i>Molecules</i> , 2021, 26, 1436.	3.8	2