

Michaela Wenzel

List of Publications by Year in descending order

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papers

2,025
citations

304368

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37
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37
docs citations

37
times ranked

2660
citing authors

#	ARTICLE	IF	CITATIONS
1	Daptomycin inhibits cell envelope synthesis by interfering with fluid membrane microdomains. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7077-E7086.	3.3	326
2	Small cationic antimicrobial peptides delocalize peripheral membrane proteins. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E1409-18.	3.3	283
3	Analysis of the Mechanism of Action of Potent Antibacterial Hetero-tri-organometallic Compounds: A Structurally New Class of Antibiotics. ACS Chemical Biology, 2013, 8, 1442-1450.	1.6	119
4	Multitarget Approaches against Multiresistant Superbugs. ACS Infectious Diseases, 2020, 6, 1346-1365.	1.8	103
5	Antimicrobial peptide cWFW kills by combining lipid phase separation with autolysis. Scientific Reports, 2017, 7, 44332.	1.6	98
6	The Multifaceted Antibacterial Mechanisms of the Pioneering Peptide Antibiotics Tyrocidine and Gramicidin S. MBio, 2018, 9, .	1.8	83
7	Synthesis and Biological Evaluation of Ferrocene-Containing Bioorganometallics Inspired by the Antibiotic Platensimycin Lead Structure. Organometallics, 2010, 29, 4312-4319.	1.1	78
8	Proteomic Response of Bacillus subtilis to Lantibiotics Reflects Differences in Interaction with the Cytoplasmic Membrane. Antimicrobial Agents and Chemotherapy, 2012, 56, 5749-5757.	1.4	76
9	The Lantibiotic NAI-107 Binds to Bactoprenol-bound Cell Wall Precursors and Impairs Membrane Functions. Journal of Biological Chemistry, 2014, 289, 12063-12076.	1.6	74
10	More Than a Pore: A Current Perspective on the In Vivo Mode of Action of the Lipopeptide Antibiotic Daptomycin. Antibiotics, 2020, 9, 17.	1.5	68
11	Modulating the activity of short arginine-tryptophan containing antibacterial peptides with N-terminal metallocenoyl groups. Beilstein Journal of Organic Chemistry, 2012, 8, 1753-1764.	1.3	63
12	An organometallic structure-activity relationship study reveals the essential role of a $\text{Re}(\text{CO})_3$ moiety in the activity against gram-positive pathogens including MRSA. Chemical Science, 2015, 6, 214-224.	3.7	63
13	Bactericidal activity of amphipathic cationic antimicrobial peptides involves altering the membrane fluidity when interacting with the phospholipid bilayer. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 2404-2415.	1.4	59
14	Proteomic Signature of Fatty Acid Biosynthesis Inhibition Available for In Vivo Mechanism-of-Action Studies. Antimicrobial Agents and Chemotherapy, 2011, 55, 2590-2596.	1.4	56
15	The novel antibiotic rhodomycrtone traps membrane proteins in vesicles with increased fluidity. PLoS Pathogens, 2018, 14, e1006876.	2.1	56
16	Proteomic signatures in antibiotic research. Proteomics, 2011, 11, 3256-3268.	1.3	49
17	Sandwich and Half-Sandwich Derivatives of Platensimycin: Synthesis and Biological Evaluation. Organometallics, 2012, 31, 5760-5771.	1.1	43
18	Influence of lipidation on the mode of action of a small RW-rich antimicrobial peptide. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1004-1011.	1.4	38

#	ARTICLE	IF	CITATIONS
19	Assessing Membrane Fluidity and Visualizing Fluid Membrane Domains in Bacteria Using Fluorescent Membrane Dyes. <i>Bio-protocol</i> , 2018, 8, e3063.	0.2	31
20	A How-To Guide for Mode of Action Analysis of Antimicrobial Peptides. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 540898.	1.8	29
21	Antimicrobial Peptides from the Aurein Family Form Ion-Selective Pores in <i>Bacillus subtilis</i> . <i>ChemBioChem</i> , 2015, 16, 1101-1108.	1.3	27
22	Synthesis of Optically Active Ferrocene-Containing Platensimycin Derivatives with a C6-C7 Substitution Pattern. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 3295-3302.	1.0	24
23	Comparison of Proteomic Responses as Global Approach to Antibiotic Mechanism of Action Elucidation. <i>Antimicrobial Agents and Chemotherapy</i> , 2020, 65, .	1.4	23
24	Purine biosynthesis is the bottleneck in trimethoprim-treated <i>Bacillus subtilis</i> . <i>Proteomics - Clinical Applications</i> , 2016, 10, 1036-1048.	0.8	21
25	Extracting iron and manganese from bacteria with ionophores: A mechanism against competitors characterized by increased potency in environments low in micronutrients. <i>Proteomics</i> , 2013, 13, 1358-1370.	1.3	19
26	A flat embedding method for transmission electron microscopy reveals an unknown mechanism of tetracycline. <i>Communications Biology</i> , 2021, 4, 306.	2.0	19
27	Control of septum thickness by the curvature of SepF polymers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	16
28	Effects of rhodomyrtone on Gram-positive bacterial tubulin homologue FtsZ. <i>PeerJ</i> , 2017, 5, e2962.	0.9	16
29	Towards Profiles of Resistance Development and Toxicity for the Small Cationic Hexapeptide RWRWRW-NH ₂ . <i>Frontiers in Cell and Developmental Biology</i> , 2016, 4, 86.	1.8	15
30	Editorial: Antimicrobial Peptides - Interaction with Membrane Lipids and Proteins. <i>Frontiers in Cell and Developmental Biology</i> , 2017, 5, 4.	1.8	14
31	Roles of Bacterial Mechanosensitive Channels in Infection and Antibiotic Susceptibility. <i>Pharmaceuticals</i> , 2022, 15, 770.	1.7	10
32	Free SepF interferes with recruitment of late cell division proteins. <i>Scientific Reports</i> , 2017, 7, 16928.	1.6	9
33	Do we really understand how antibiotics work?. <i>Future Microbiology</i> , 2020, 15, 1307-1311.	1.0	6
34	ScpF supports the recruitment of the DNA translocase ScpA to the Z-ring. <i>Molecular Microbiology</i> , 2022, 117, 1263-1274.	1.2	5