

William M Wuest

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

93
papers

2,512
citations

26
h-index

48
g-index

109
ext. papers

3,136
ext. citations

6.8
avg, IF

5.7
L-index

#	Paper	IF	Citations
93	nTZDpa (non-thiazolidinedione PPAR α partial agonist) derivatives retain antimicrobial activity without improving renal toxicity.. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022 , 128678	2.9	0
92	Exploration of inhibitors of the bacterial LexA repressor-protease.. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2022 , 65, 128702	2.9	0
91	Mining for mouth metabolites. <i>Nature Chemical Biology</i> , 2021 , 17, 505-506	11.7	
90	The silent pandemic: Emergent antibiotic resistances following the global response to SARS-CoV-2. <i>IScience</i> , 2021 , 24, 102304	6.1	25
89	Trivalent sulfonium compounds (TSCs): Tetrahydrothiophene-based amphiphiles exhibit similar antimicrobial activity to analogous ammonium-based amphiphiles. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2021 , 37, 127809	2.9	3
88	An Efficient Synthesis of 3-Alkylpyridine Alkaloids Enables Their Biological Evaluation. <i>ChemMedChem</i> , 2021 , 16, 2487-2490	3.7	
87	Promiscuous : Uptake of Non-Endogenous Ligands for Iron Acquisition. <i>Tetrahedron Letters</i> , 2021 , 75, 153204-153204	2	
86	Tricepyridinium-inspired QACs yield potent antimicrobials and provide insight into QAC resistance. <i>ChemMedChem</i> , 2021 , 16, 463-466	3.7	5
85	Building -bicyclo[4.4.0]decanes/decenes in complex multifunctional frameworks: the case for antibiotic development. <i>Natural Product Reports</i> , 2021 , 38, 880-889	15.1	0
84	Synthesis and biological evaluation of an antibacterial azaborine retinoid isostere. <i>Tetrahedron Letters</i> , 2021 , 62,	2	5
83	Metallocene QACs: The Incorporation of Ferrocene Moieties into monoQAC and bisQAC Structures. <i>ChemMedChem</i> , 2021 , 16, 467-471	3.7	2
82	Collaboration in Natural Product Total Synthesis: Carolacton 1A Decade of Discovery. <i>Synlett</i> , 2021 , 32, 241-248	2.2	1
81	Broad Spectrum Antibiotic Xanthocillin X Effectively Kills Dysregulation of Heme Biosynthesis. <i>ACS Central Science</i> , 2021 , 7, 488-498	16.8	4
80	Pyochelin Biosynthetic Metabolites Bind Iron and Promote Growth in Demonstrating Siderophore-like Activity. <i>ACS Infectious Diseases</i> , 2021 , 7, 544-551	5.5	3
79	Using membrane perturbing small molecules to target chronic persistent infections. <i>RSC Medicinal Chemistry</i> , 2021 , 12, 1312-1324	3.5	1
78	Are Quaternary Ammonium Compounds, the Workhorse Disinfectants, Effective against Severe Acute Respiratory Syndrome-Coronavirus-2?. <i>ACS Infectious Diseases</i> , 2020 , 6, 1553-1557	5.5	45
77	Addition of ethylamines to the phenols of bithionol and synthetic retinoids does not elicit activity in gram-negative bacteria. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020 , 30, 127099	2.9	3

76	Asymmetric Total Synthesis of the Naturally Occurring Antibiotic Anthracimycin. <i>Organic Letters</i> , 2020 , 22, 5550-5554	6.2	6
75	Virulence attenuating combination therapy: a potential multi-target synergy approach to treat infections in cystic fibrosis patients. <i>RSC Medicinal Chemistry</i> , 2020 , 11, 358-369	3.5	10
74	Further Investigations into Rigidity-Activity Relationships in BisQAC Amphiphilic Antiseptics. <i>ChemMedChem</i> , 2020 , 15, 667-670	3.7	9
73	Phylogeny-Guided Approach Yields Glycopeptides with Unique Action. <i>Trends in Pharmacological Sciences</i> , 2020 , 41, 297-299	13.2	5
72	Broadening Activity of Polymyxin by Quaternary Ammonium Grafting. <i>ACS Infectious Diseases</i> , 2020 , 6, 1427-1435	5.5	4
71	Target-Based Design of Promysalin Analogues Identifies a New Putative Binding Cleft in Succinate Dehydrogenase. <i>ACS Infectious Diseases</i> , 2020 , 6, 1372-1377	5.5	2
70	The histone-like protein AlgP regulon is distinct in mucoid and nonmucoid and does not include alginate biosynthesis genes. <i>Microbiology (United Kingdom)</i> , 2020 , 166, 861-866	2.9	1
69	A Bisphenolic Honokiol Analog Outcompetes Oral Antimicrobial Agent Cetylpyridinium Chloride via a Membrane-Associated Mechanism. <i>ACS Infectious Diseases</i> , 2020 , 6, 74-79	5.5	11
68	Analysis of the Destabilization of Bacterial Membranes by Quaternary Ammonium Compounds: A Combined Experimental and Computational Study. <i>ChemBioChem</i> , 2020 , 21, 1510-1516	3.8	21
67	Repurposing human kinase inhibitors to create an antibiotic active against drug-resistant <i>Staphylococcus aureus</i> , persisters and biofilms. <i>Nature Chemistry</i> , 2020 , 12, 145-158	17.6	36
66	A look around the West Indies: The spices of life are secondary metabolites. <i>Bioorganic and Medicinal Chemistry</i> , 2020 , 28, 115792	3.4	0
65	Advancements in the Development of Non-Nitrogen-Based Amphiphilic Antiseptics to Overcome Pathogenic Bacterial Resistance. <i>ChemMedChem</i> , 2020 , 15, 1974-1984	3.7	6
64	Structure-Activity Relationship and Anticancer Profile of Second-Generation Anti-MRSA Synthetic Retinoids. <i>ACS Medicinal Chemistry Letters</i> , 2020 , 11, 393-397	4.3	10
63	Total synthesis of (+)-pilosinine via a stereodivergent conjugate addition strategy. <i>Tetrahedron Letters</i> , 2020 , 61,	2	2
62	Synthetic Simplification of Carolacton Enables Chemical Genetic Studies in. <i>ACS Infectious Diseases</i> , 2019 , 5, 1480-1486	5.5	6
61	Hijacking the Bacterial Circuitry of Biofilm Processes via Chemical "Hot-Wiring": An Under-explored Avenue for Therapeutic Development. <i>ACS Infectious Diseases</i> , 2019 , 5, 789-795	5.5	0
60	Targeting biofilms: a perspective on preventing dental caries. <i>MedChemComm</i> , 2019 , 10, 1057-1067	5	40
59	Connecting iron acquisition and biofilm formation in the ESKAPE pathogens as a strategy for combatting antibiotic resistance. <i>MedChemComm</i> , 2019 , 10, 505-512	5	15

58	The Natural Product Elegaphenone Potentiates Antibiotic Effects against <i>Pseudomonas aeruginosa</i> . <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 8581-8584	16.4	7
57	Signed, Sealed, Delivered: Conjugate and Prodrug Strategies as Targeted Delivery Vectors for Antibiotics. <i>ACS Infectious Diseases</i> , 2019 , 5, 816-828	5.5	15
56	Der Naturstoff Elegaphenon verstärkt antibiotische Effekte gegen <i>Pseudomonas aeruginosa</i> . <i>Angewandte Chemie</i> , 2019 , 131, 8670	3.6	
55	From General to Specific: Can <i>Pseudomonas</i> Primary Metabolism Be Exploited for Narrow-Spectrum Antibiotics?. <i>ChemBioChem</i> , 2019 , 20, 34-39	3.8	4
54	A selective membrane-targeting repurposed antibiotic with activity against persistent methicillin-resistant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 16529-16534	11.5	53
53	More QACs, more questions: Recent advances in structure activity relationships and hurdles in understanding resistance mechanisms. <i>Tetrahedron Letters</i> , 2019 , 60,	2	27
52	Combined inhibition of Aurora A and p21-activated kinase 1 as a new treatment strategy in breast cancer. <i>Breast Cancer Research and Treatment</i> , 2019 , 177, 369-382	4.4	23
51	An Investigation into Rigidity-Activity Relationships in BisQAC Amphiphilic Antiseptics. <i>ChemMedChem</i> , 2019 , 14, 83-87	3.7	13
50	Identification of Specific and Nonspecific Inhibitors of <i>Bacillus anthracis</i> Type III Pantothenate Kinase (PanK). <i>ChemMedChem</i> , 2019 , 14, 78-82	3.7	2
49	Claramines: A New Class Of Broad-Spectrum Antimicrobial Agents With Bimodal Activity. <i>ChemMedChem</i> , 2018 , 13, 1018-1027	3.7	17
48	Dual Inhibitor of <i>Staphylococcus aureus</i> Virulence and Biofilm Attenuates Expression of Major Toxins and Adhesins. <i>Biochemistry</i> , 2018 , 57, 1814-1820	3.2	6
47	Diverted Total Synthesis of the Baulamycins and Analogues Reveals an Alternate Mechanism of Action. <i>Organic Letters</i> , 2018 , 20, 1126-1129	6.2	9
46	Promysalin Elicits Species-Selective Inhibition of <i>Pseudomonas aeruginosa</i> by Targeting Succinate Dehydrogenase. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1774-1782	16.4	46
45	A new class of synthetic retinoid antibiotics effective against bacterial persisters. <i>Nature</i> , 2018 , 556, 103-107	50.4	216
44	Discovery and Optimization of nTZDpa as an Antibiotic Effective Against Bacterial Persisters. <i>ACS Infectious Diseases</i> , 2018 , 4, 1540-1545	5.5	26
43	Honokiol-Inspired Analogs as Inhibitors of Oral Bacteria. <i>ACS Infectious Diseases</i> , 2018 , 4, 118-122	5.5	13
42	Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. <i>ACS Central Science</i> , 2018 , 4, 1727-1741	16.8	26
41	Epoxy Isonitriles, A Unique Class of Antibiotics: Synthesis of Their Metabolites and Biological Investigations. <i>ChemBioChem</i> , 2018 , 19, 2448-2452	3.8	5

40	Biologically Inspired Total Synthesis of Ulbactin F, an Iron-Binding Natural Product. <i>Organic Letters</i> , 2018 , 20, 5922-5926	6.2	12
39	Transcriptomic Profiling Suggests That Promysalin Alters the Metabolic Flux, Motility, and Iron Regulation in <i>Pseudomonas putida</i> KT2440. <i>ACS Infectious Diseases</i> , 2018 , 4, 1179-1187	5.5	4
38	Twelve-membered macrolactones: privileged scaffolds for the development of new therapeutics. <i>Chemical Biology and Drug Design</i> , 2017 , 89, 169-191	2.9	8
37	The Development of Next-Generation Pyridinium-Based multiQAC Antiseptics. <i>ChemMedChem</i> , 2017 , 12, 280-283	3.7	22
36	Ester- and amide-containing multiQACs: Exploring multicationic soft antimicrobial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 2107-2112	2.9	24
35	Diverted Total Synthesis of Carolacton-Inspired Analogs Yields Three Distinct Phenotypes in <i>Streptococcus mutans</i> Biofilms. <i>Journal of the American Chemical Society</i> , 2017 , 139, 7188-7191	16.4	22
34	Efflux Pumps Might Not Be the Major Drivers of QAC Resistance in Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>ChemBioChem</i> , 2017 , 18, 1573-1577	3.8	24
33	A novel application of the Staudinger ligation to access neutral cyclic di-nucleotide analog precursors a divergent method. <i>RSC Advances</i> , 2017 , 7, 29835-29838	3.7	4
32	Hybrid BisQACs: Potent Biscationic Quaternary Ammonium Compounds Merging the Structures of Two Commercial Antiseptics. <i>ChemMedChem</i> , 2017 , 12, 1931-1934	3.7	16
31	EroS Enzyme from <i>Aliivibrio fischeri</i> Plays Cupid to Choanoflagellates. <i>ChemBioChem</i> , 2017 , 18, 2298-2308	3.8	8
30	Natural Products as Platforms To Overcome Antibiotic Resistance. <i>Chemical Reviews</i> , 2017 , 117, 12415-12474	12.74	245
29	Polymeric Quaternary Ammonium Compounds: Versatile Antimicrobial Materials. <i>Current Topics in Medicinal Chemistry</i> , 2017 , 17, 305-318	3	43
28	Structure-Resistance Relationships: Interrogating Antiseptic Resistance in Bacteria with Multicationic Quaternary Ammonium Dyes. <i>ChemMedChem</i> , 2016 , 11, 958-62	3.7	23
27	An optimized synthesis of the potent and selective Pak1 inhibitor FRAX-1036. <i>Tetrahedron Letters</i> , 2016 , 57, 449-451	2	5
26	The enantioselective synthesis and biological evaluation of chimeric promysalin analogs facilitated by diverted total synthesis. <i>Journal of Antibiotics</i> , 2016 , 69, 337-9	3.7	8
25	From antimicrobial activity to mechanism of resistance: the multifaceted role of simple quaternary ammonium compounds in bacterial eradication. <i>Tetrahedron</i> , 2016 , 72, 3559-3566	2.4	65
24	Natural product-derived quaternary ammonium compounds with potent antimicrobial activity. <i>Journal of Antibiotics</i> , 2016 , 69, 344-7	3.7	22
23	Building a Better Quaternary Ammonium Compound (QAC): Branched Tetracationic Antiseptic Amphiphiles. <i>ChemMedChem</i> , 2016 , 11, 1401-5	3.7	34

22	Diverted Total Synthesis of Promysalin Analogs Demonstrates That an Iron-Binding Motif Is Responsible for Its Narrow-Spectrum Antibacterial Activity. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5833-6	16.4	26
21	Molecular Simulation of Conformational Pre-Organization in Cyclic RGD Peptides. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 806-13	6.1	33
20	Bioorganic Investigation of Multicationic Antimicrobials to Combat QAC-Resistant <i>Staphylococcus aureus</i> . <i>ACS Infectious Diseases</i> , 2015 , 1, 304-9	5.5	58
19	Scaffold-Hopping of Multicationic Amphiphiles Yields Three New Classes of Antimicrobials. <i>ChemBioChem</i> , 2015 , 16, 2299-303	3.8	27
18	Quaternary Ammonium Compounds: An Antimicrobial Mainstay and Platform for Innovation to Address Bacterial Resistance. <i>ACS Infectious Diseases</i> , 2015 , 1, 288-303	5.5	305
17	Total synthesis and biological investigation of (-)-promysalin. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7314-7	16.4	29
16	The Rhizosphere Microbiome: A Playground for Natural Product Chemists. <i>Synlett</i> , 2015 , 26, 2739-2744	2.2	13
15	Computational screening and selection of cyclic peptide hairpin mimetics by molecular simulation and kinetic network models. <i>Journal of Chemical Information and Modeling</i> , 2014 , 54, 1425-32	6.1	44
14	A concise synthesis of carolacton. <i>Organic Letters</i> , 2014 , 16, 1148-51	6.2	26
13	Biofilm-eradicating properties of quaternary ammonium amphiphiles: simple mimics of antimicrobial peptides. <i>ChemBioChem</i> , 2014 , 15, 2211-5	3.8	102
12	Synthesis of cyclic dimeric methyl morpholinolide common synthetic precursor to cyclic dinucleotide analogs. <i>Tetrahedron Letters</i> , 2014 , 55, 4966-4968	2	8
11	Draining the moat: disrupting bacterial biofilms with natural products. <i>Tetrahedron</i> , 2014 , 70, 6373-6383	2.4	26
10	Beyond paraquats: dialkyl 3,3R and 3,4R bipyridinium amphiphiles as antibacterial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 3706-9	2.9	18
9	TMEDA-derived biscationic amphiphiles: An economical preparation of potent antibacterial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 99-102	2.9	26
8	The antimicrobial activity of mono-, bis-, tris-, and tetracationic amphiphiles derived from simple polyamine platforms. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014 , 24, 5824-5828	2.9	33
7	Enzymatic timing and tailoring of macrolactamization in syringolin biosynthesis. <i>Organic Letters</i> , 2011 , 13, 4518-21	6.2	11
6	Three siderophores from one bacterial enzymatic assembly line. <i>Journal of the American Chemical Society</i> , 2009 , 131, 5056-7	16.4	61
5	SylC catalyzes ureido-bond formation during biosynthesis of the proteasome inhibitor syringolin A. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18263-5	16.4	35

4	Evolution of multi-component anion relay chemistry (ARC): construction of architecturally complex natural and unnatural products. <i>Chemical Communications</i> , 2008 , 5883-95	5.8	122
3	Total synthesis of (-)-2-epi-peloruside A. <i>Organic Letters</i> , 2008 , 10, 5501-4	6.2	34
2	Intramolecular hydroamination of aminoalkynes with silver-phenanthroline catalysts. <i>Organic Letters</i> , 2008 , 10, 3903-6	6.2	57
1	Ortho-TMS benzaldehyde: an effective linchpin for type II anion relay chemistry (ARC). <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 7082-6	16.4	41