

Kevin P C Minbiole

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

4,075
citations

136950

32
h-index

144013

57
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63
all docs

63
docs citations

63
times ranked

3318
citing authors

#	ARTICLE	IF	CITATIONS
1	Skin microbes on frogs prevent morbidity and mortality caused by a lethal skin fungus. ISME Journal, 2009, 3, 818-824.	9.8	478
2	Quaternary Ammonium Compounds: An Antimicrobial Mainstay and Platform for Innovation to Address Bacterial Resistance. ACS Infectious Diseases, 2015, 1, 288-303.	3.8	441
3	Amphibian Chemical Defense: Antifungal Metabolites of the Microsymbiont <i>Janthinobacterium lividum</i> on the Salamander <i>Plethodon cinereus</i> . Journal of Chemical Ecology, 2008, 34, 1422-1429.	1.8	272
4	Mitigating amphibian chytridiomycosis with bioaugmentation: characteristics of effective probiotics and strategies for their selection and use. Ecology Letters, 2013, 16, 807-820.	6.4	239
5	The Bacterially Produced Metabolite Violacein Is Associated with Survival of Amphibians Infected with a Lethal Fungus. Applied and Environmental Microbiology, 2009, 75, 6635-6638.	3.1	173
6	Composition of symbiotic bacteria predicts survival in Panamanian golden frogs infected with a lethal fungus. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142881.	2.6	165
7	Panamanian frog species host unique skin bacterial communities. Frontiers in Microbiology, 2015, 6, 1171.	3.5	144
8	The Identification of 2,4-diacetylphloroglucinol as an Antifungal Metabolite Produced by Cutaneous Bacteria of the Salamander <i>Plethodon cinereus</i> . Journal of Chemical Ecology, 2008, 34, 39-43.	1.8	138
9	Using Omic s and Integrated Multi-Omic Approaches to Guide Probiotic Selection to Mitigate Chytridiomycosis and Other Emerging Infectious Diseases. Frontiers in Microbiology, 2016, 7, 68.	3.5	135
10	Biofilm-Eradicating Properties of Quaternary Ammonium Amphiphiles: Simple Mimics of Antimicrobial Peptides. ChemBioChem, 2014, 15, 2211-2215.	2.6	126
11	Interactions between amphibians' symbiotic bacteria cause the production of emergent anti-fungal metabolites. Frontiers in Microbiology, 2014, 5, 441.	3.5	123
12	Community Structure and Function of Amphibian Skin Microbes: An Experiment with Bullfrogs Exposed to a Chytrid Fungus. PLoS ONE, 2015, 10, e0139848.	2.5	120
13	Phylogenetic distribution of symbiotic bacteria from Panamanian amphibians that inhibit growth of the lethal fungal pathogen <i>Batrachochytrium dendrobatidis</i> . Molecular Ecology, 2015, 24, 1628-1641.	3.9	118
14	Prodigiosin, Violacein, and Volatile Organic Compounds Produced by Widespread Cutaneous Bacteria of Amphibians Can Inhibit Two <i>Batrachochytrium</i> Fungal Pathogens. Microbial Ecology, 2018, 75, 1049-1062.	2.8	103
15	Are Quaternary Ammonium Compounds, the Workhorse Disinfectants, Effective against Severe Acute Respiratory Syndrome-Coronavirus-2?. ACS Infectious Diseases, 2020, 6, 1553-1557.	3.8	96
16	Synergistic Inhibition of the Lethal Fungal Pathogen <i>Batrachochytrium dendrobatidis</i> : The Combined Effect of Symbiotic Bacterial Metabolites and Antimicrobial Peptides of the Frog <i>Rana muscosa</i> . Journal of Chemical Ecology, 2012, 38, 958-965.	1.8	78
17	Changes in Microbiome Confer Multigenerational Host Resistance after Sub-toxic Pesticide Exposure. Cell Host and Microbe, 2020, 27, 213-224.e7.	11.0	77
18	Bioorganic Investigation of Multicationic Antimicrobials to Combat QAC-Resistant <i>Staphylococcus aureus</i> . ACS Infectious Diseases, 2015, 1, 304-309.	3.8	73

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19	Polymeric Quaternary Ammonium Compounds: Versatile Antimicrobial Materials. <i>Current Topics in Medicinal Chemistry</i> , 2016, 17, 305-318.	2.1	62
20	The antibacterial activity of 4,4'-bipyridinium amphiphiles with conventional, bicephalic and gemini architectures. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 4055-4058.	2.2	49
21	More QACs, more questions: Recent advances in structure activity relationships and hurdles in understanding resistance mechanisms. <i>Tetrahedron Letters</i> , 2019, 60, 150935.	1.4	48
22	Building a Better Quaternary Ammonium Compound (QAC): Branched Tetracationic Antiseptic Amphiphiles. <i>ChemMedChem</i> , 2016, 11, 1401-1405.	3.2	45
23	A Cyclopropane Fragmentation Approach to Heterocycle Assembly: A Convergent Synthesis of Oxepanes. <i>Organic Letters</i> , 2005, 7, 515-517.	4.6	43
24	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.	2.2	41
25	Analysis of the Destabilization of Bacterial Membranes by Quaternary Ammonium Compounds: A Combined Experimental and Computational Study. <i>ChemBioChem</i> , 2020, 21, 1510-1516.	2.6	41
26	Immunomodulatory Metabolites Released by the Frog-Killing Fungus <i>Batrachochytrium dendrobatidis</i> . <i>Infection and Immunity</i> , 2015, 83, 4565-4570.	2.2	39
27	Scaffold Hopping of Multicationic Amphiphiles Yields Three New Classes of Antimicrobials. <i>ChemBioChem</i> , 2015, 16, 2299-2303.	2.6	36
28	Structure-Resistance Relationships: Interrogating Antiseptic Resistance in Bacteria with Multicationic Quaternary Ammonium Dyes. <i>ChemMedChem</i> , 2016, 11, 958-962.	3.2	36
29	Bicephalic amphiphile architecture affects antibacterial activity. <i>European Journal of Medicinal Chemistry</i> , 2011, 46, 4219-4226.	5.5	35
30	TMEDA-derived biscationic amphiphiles: An economical preparation of potent antibacterial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 99-102.	2.2	34
31	Variation in Metabolite Profiles of Amphibian Skin Bacterial Communities Across Elevations in the Neotropics. <i>Microbial Ecology</i> , 2017, 74, 227-238.	2.8	34
32	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.	2.6	33
33	The Development of Next-Generation Pyridinium-Based multiQAC Antiseptics. <i>ChemMedChem</i> , 2017, 12, 280-283.	3.2	32
34	Ester- and amide-containing multiQACs: Exploring multicationic soft antimicrobial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 2107-2112.	2.2	31
35	Identification of Bufadienolides from the Boreal Toad, <i>Anaxyrus boreas</i> , Active Against a Fungal Pathogen. <i>Microbial Ecology</i> , 2017, 74, 990-1000.	2.8	30
36	Gut of Red-backed Salamanders (<i>Plethodon cinereus</i>) May Serve as a Reservoir for an Antifungal Cutaneous Bacterium. <i>Journal of Herpetology</i> , 2011, 45, 329-332.	0.5	29

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37	Beyond paraquats: Dialkyl 3,3- and 3,4-bipyridinium amphiphiles as antibacterial agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 3706-3709.	2.2	22
38	An Investigation into Rigidity-Activity Relationships in BisQAC Amphiphilic Antiseptics. <i>ChemMedChem</i> , 2019, 14, 83-87.	3.2	22
39	Short-Term Exposure to Coal Combustion Waste Has Little Impact on the Skin Microbiome of Adult Spring Peepers (<i>Pseudacris crucifer</i>). <i>Applied and Environmental Microbiology</i> , 2016, 82, 3493-3502.	3.1	21
40	Advancements in the Development of Non-Nitrogen-Based Amphiphilic Antiseptics to Overcome Pathogenic Bacterial Resistance. <i>ChemMedChem</i> , 2020, 15, 1974-1984.	3.2	21
41	Hybrid BisQACs: Potent Biscationic Quaternary Ammonium Compounds Merging the Structures of Two Commercial Antiseptics. <i>ChemMedChem</i> , 2017, 12, 1931-1934.	3.2	20
42	HPLC-MS detection of pyrrolizidine alkaloids and their N-oxides in herbarium specimens dating back to the 1850s. <i>Applications in Plant Sciences</i> , 2018, 6, e1143.	2.1	19
43	Nonlethal amphibian skin swabbing of cutaneous natural products for HPLC fingerprinting. <i>Analytical Methods</i> , 2014, 6, 3277-3284.	2.7	17
44	Further Investigations into Rigidity-Activity Relationships in BisQAC Amphiphilic Antiseptics. <i>ChemMedChem</i> , 2020, 15, 667-670.	3.2	17
45	Quaternary Phosphonium Compounds: An Examination of Non-Nitrogenous Cationic Amphiphiles That Evade Disinfectant Resistance. <i>ACS Infectious Diseases</i> , 2022, 8, 387-397.	3.8	16
46	The Petasis-Ferrier rearrangement: developments and applications. <i>Journal of Antibiotics</i> , 2016, 69, 213-219.	2.0	15
47	Metabolites Involved in Immune Evasion by <i>Batrachochytrium dendrobatidis</i> Include the Polyamine Spermidine. <i>Infection and Immunity</i> , 2019, 87, .	2.2	15
48	The cutaneous bacterium <i>Janthinobacterium lividum</i> inhibits the growth of <i>Tetranychus urticae</i> in vitro. <i>International Journal of Dermatology</i> , 2015, 54, 156-159.	1.0	14
49	The isolation of tetrangomycin from terrestrial <i>Streptomyces</i> sp. CAH29: evaluation of antioxidant, anticancer, and anti-MRSA activity. <i>Medicinal Chemistry Research</i> , 2016, 25, 2872-2881.	2.4	11
50	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.	2.2	11
51	Seasonal changes and the unexpected impact of environmental disturbance on skin bacteria of individual amphibians in a natural habitat. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	2.7	10
52	Metallocene QACs: The Incorporation of Ferrocene Moieties into monoQAC and bisQAC Structures. <i>ChemMedChem</i> , 2021, 16, 467-471.	3.2	6
53	Chemotaxonomic investigation of Apocynaceae for retronecine-type pyrrolizidine alkaloids using HPLC-MS/MS. <i>Phytochemistry</i> , 2021, 185, 112662.	2.9	6
54	Lymphocyte Inhibition by the Salamander-Killing Chytrid Fungus, <i>Batrachochytrium salamandrivorans</i> . <i>Infection and Immunity</i> , 2022, 90, iai0002022.	2.2	6

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55	Rigidity–Activity Relationships of bisQPC Scaffolds against Pathogenic Bacteria. <i>ChemMedChem</i> , 2022, 17, .	3.2	5
56	An experimental test of disease resistance function in the skin-associated bacterial communities of three tropical amphibian species. <i>FEMS Microbiology Ecology</i> , 2022, 98, .	2.7	2
57	Organic synthesis in the Smith Group: a personal selection of a dozen lessons learned at the University of Pennsylvania. <i>Journal of Antibiotics</i> , 2016, 69, 192-202.	2.0	0
58	Diastereoselective Copper-Mediated Conjugate Addition of Functionalized Magnesiates for the Preparation of Bisaryl Nrf2 Activators. <i>Journal of Organic Chemistry</i> , 2021, 86, 3120-3137.	3.2	0