

Cameron R Currie

List of Publications by Year in descending order

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Version: 2024-02-01

102
papers

7,670
citations

61687

45
h-index

64407

83
g-index

104
all docs

104
docs citations

104
times ranked

7390
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacillimidazoles A-F, Imidazolium-Containing Compounds Isolated from a Marine Bacillus. <i>Marine Drugs</i> , 2022, 20, 43.	2.2	8
2	Long-Term Cellulose Enrichment Selects for Highly Cellulolytic Consortia and Competition for Public Goods. <i>MSystems</i> , 2022, 7, e0151921.	1.7	5
3	Bacillibactins E and F from a Marine Sponge-Associated Bacillus sp.. <i>Journal of Natural Products</i> , 2021, 84, 136-141.	1.5	13
4	Symbiont-Mediated Digestion of Plant Biomass in Fungus-Farming Insects. <i>Annual Review of Entomology</i> , 2021, 66, 297-316.	5.7	37
5	Pollen Streptomyces Produce Antibiotic That Inhibits the Honey Bee Pathogen Paenibacillus larvae. <i>Frontiers in Microbiology</i> , 2021, 12, 632637.	1.5	15
6	Chemical Exchanges between Multilateral Symbionts. <i>Organic Letters</i> , 2021, 23, 1648-1652.	2.4	16
7	Insights Into the Ecological Role of Pseudomonas spp. in an Ant-plant Symbiosis. <i>Frontiers in Microbiology</i> , 2021, 12, 621274.	1.5	13
8	Antileishmanial macrolides from ant-associated Streptomyces sp. ISID311. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 32, 116016.	1.4	14
9	A community resource for paired genomic and metabolomic data mining. <i>Nature Chemical Biology</i> , 2021, 17, 363-368.	3.9	81
10	From Plants to Ants: Fungal Modification of Leaf Lipids for Nutrition and Communication in the Leaf-Cutter Ant Fungal Garden Ecosystem. <i>MSystems</i> , 2021, 6, .	1.7	11
11	A high-quality carabid genome assembly provides insights into beetle genome evolution and cold adaptation. <i>Molecular Ecology Resources</i> , 2021, 21, 2145-2165.	2.2	13
12	Experimental Warming Reduces Survival, Cold Tolerance, and Gut Prokaryotic Diversity of the Eastern Subterranean Termite, <i>Reticulitermes flavipes</i> (Kollar). <i>Frontiers in Microbiology</i> , 2021, 12, 632715.	1.5	8
13	<i>Burkholderia</i> from Fungus Gardens of Fungus-Growing Ants Produces Antifungals That Inhibit the Specialized Parasite <i>Escovopsis</i> . <i>Applied and Environmental Microbiology</i> , 2021, 87, e0017821.	1.4	8
14	Mannose- and Mannobiose-Specific Responses of the Insect-Associated Cellulolytic Bacterium <i>Streptomyces</i> sp. Strain SirexAA-E. <i>Applied and Environmental Microbiology</i> , 2021, 87, e0271920.	1.4	6
15	Specialized Metabolites Reveal Evolutionary History and Geographic Dispersion of a Multilateral Symbiosis. <i>ACS Central Science</i> , 2021, 7, 292-299.	5.3	23
16	Biogeography of Bacterial Communities and Specialized Metabolism in Human Aerodigestive Tract Microbiomes. <i>Microbiology Spectrum</i> , 2021, 9, e0166921.	1.2	3
17	Coordination of fungal biofilm development by extracellular vesicle cargo. <i>Nature Communications</i> , 2021, 12, 6235.	5.8	42
18	Symbiont-Mediated Protection of <i>Acromyrmex</i> Leaf-Cutter Ants from the Entomopathogenic Fungus <i>Metarhizium anisopliae</i> . <i>MBio</i> , 2021, 12, e0188521.	1.8	12

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19	Metagenomics Reveals Diet-Specific Specialization of Bacterial Communities in Fungus Gardens of Grass- and Dicot-Cutter Ants. <i>Frontiers in Microbiology</i> , 2020, 11, 570770.	1.5	8
20	A marine microbiome antifungal targets urgent-threat drug-resistant fungi. <i>Science</i> , 2020, 370, 974-978.	6.0	102
21	Biom mineral armor in leaf-cutter ants. <i>Nature Communications</i> , 2020, 11, 5792.	5.8	34
22	Fungus-growing insects host a distinctive microbiota apparently adapted to the fungiculture environment. <i>Scientific Reports</i> , 2020, 10, 12384.	1.6	31
23	Bacteria Contribute to Plant Secondary Compound Degradation in a Generalist Herbivore System. <i>MBio</i> , 2020, 11, .	1.8	30
24	MS-Derived Isotopic Fine Structure Reveals Forazoline A as a Thioketone-Containing Marine-Derived Natural Product. <i>Organic Letters</i> , 2020, 22, 1275-1279.	2.4	12
25	Microbial Diversity Associated with the Pollen Stores of Captive-Bred Bumble Bee Colonies. <i>Insects</i> , 2020, 11, 250.	1.0	25
26	Cycloheximide-Producing <i>Streptomyces</i> Associated With <i>Xyleborinus saxesenii</i> and <i>Xyleborus affinis</i> Fungus-Farming Ambrosia Beetles. <i>Frontiers in Microbiology</i> , 2020, 11, 562140.	1.5	22
27	Functional metagenomics reveals abundant polysaccharide-degrading gene clusters and cellobiose utilization pathways within gut microbiota of a wood-feeding higher termite. <i>ISME Journal</i> , 2019, 13, 104-117.	4.4	93
28	Madurastatin D1 and D2, Oxazoline Containing Siderophores Isolated from an <i>Actinomadura</i> sp. <i>Organic Letters</i> , 2019, 21, 6275-6279.	2.4	19
29	Microbial community modulates growth of symbiotic fungus required for stingless bee metamorphosis. <i>PLoS ONE</i> , 2019, 14, e0219696.	1.1	26
30	Experimental Microbiomes: Models Not to Scale. <i>MSystems</i> , 2019, 4, .	1.7	17
31	Pyonitrins Aâ€“D: Chimeric Natural Products Produced by <i>Pseudomonas protegens</i> . <i>Journal of the American Chemical Society</i> , 2019, 141, 17098-17101.	6.6	27
32	Convergent evolution of signal-structure interfaces for maintaining symbioses. <i>Current Opinion in Microbiology</i> , 2019, 50, 71-78.	2.3	10
33	High Throughput Co-culture Assays for the Investigation of Microbial Interactions. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	5
34	Taxonomic and Metabolic Incongruence in the Ancient Genus <i>Streptomyces</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 2170.	1.5	40
35	The antimicrobial potential of <i>Streptomyces</i> from insect microbiomes. <i>Nature Communications</i> , 2019, 10, 516.	5.8	222
36	Pollen-borne microbes shape bee fitness. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20182894.	1.2	67

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37	Laryngotracheal Microbiota in Adult Laryngotracheal Stenosis. <i>MSphere</i> , 2019, 4, .	1.3	30
38	Local Adaptation of Bacterial Symbionts within a Geographic Mosaic of Antibiotic Coevolution. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	21
39	Competition among Nasal Bacteria Suggests a Role for Siderophore-Mediated Interactions in Shaping the Human Nasal Microbiota. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	57
40	Emerging evolutionary paradigms in antibiotic discovery. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2019, 46, 257-271.	1.4	76
41	Defense contracts: molecular protection in insect-microbe symbioses. <i>Chemical Society Reviews</i> , 2018, 47, 1638-1651.	18.7	122
42	Draft Genome Sequence of <i>Micromonospora</i> sp. Strain WMMA1996, a Marine Sponge-Associated Bacterium. <i>Genome Announcements</i> , 2018, 6, .	0.8	1
43	Stingless Bee Larvae Require Fungal Steroid to Pupate. <i>Scientific Reports</i> , 2018, 8, 1122.	1.6	85
44	Complete Genome Sequence of <i>Dietzia</i> sp. Strain WMMA184, a Marine Coral-Associated Bacterium. <i>Genome Announcements</i> , 2018, 6, .	0.8	3
45	Pyrazines from bacteria and ants: convergent chemistry within an ecological niche. <i>Scientific Reports</i> , 2018, 8, 2595.	1.6	51
46	Gut Microbial and Metabolic Responses to <i>Salmonella enterica</i> Serovar Typhimurium and <i>Candida albicans</i> . <i>MBio</i> , 2018, 9, .	1.8	31
47	Convergent evolution of complex structures for ant-bacterial defensive symbiosis in fungus-farming ants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10720-10725.	3.3	74
48	Substrate Shift Reveals Roles for Members of Bacterial Consortia in Degradation of Plant Cell Wall Polymers. <i>Frontiers in Microbiology</i> , 2018, 9, 364.	1.5	27
49	Lignocellulose pretreatment in a fungus-cultivating termite. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4709-4714.	3.3	107
50	Imaging with Mass Spectrometry of Bacteria on the Exoskeleton of Fungus-Growing Ants. <i>ACS Chemical Biology</i> , 2017, 12, 1980-1985.	1.6	24
51	SANDPUMA: ensemble predictions of nonribosomal peptide chemistry reveal biosynthetic diversity across <i>Actinobacteria</i> . <i>Bioinformatics</i> , 2017, 33, 3202-3210.	1.8	89
52	Lateral Gene Transfer Dynamics in the Ancient Bacterial Genus <i>Streptomyces</i> . <i>MBio</i> , 2017, 8, .	1.8	110
53	Linear Peptides Are the Major Products of a Biosynthetic Pathway That Encodes for Cyclic Depsipeptides. <i>Organic Letters</i> , 2017, 19, 1772-1775.	2.4	35
54	Draft Genome Sequence of <i>Micromonospora</i> sp. Strain WMMA235, a Marine Ascidian-Associated Bacterium. <i>Genome Announcements</i> , 2017, 5, .	0.8	3

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55	Empirical, Metagenomic, and Computational Techniques Illuminate the Mechanisms by which Fungicides Compromise Bee Health. <i>Journal of Visualized Experiments</i> , 2017, , .	0.2	12
56	Tryptorubin A: A Polycyclic Peptide from a Fungus-Derived Streptomyce. <i>Journal of the American Chemical Society</i> , 2017, 139, 12899-12902.	6.6	58
57	Coculture of Marine Invertebrate-Associated Bacteria and Interdisciplinary Technologies Enable Biosynthesis and Discovery of a New Antibiotic, Keyicin. <i>ACS Chemical Biology</i> , 2017, 12, 3093-3102.	1.6	98
58	Evidence for Widespread Associations between Neotropical Hymenopteran Insects and Actinobacteria. <i>Frontiers in Microbiology</i> , 2017, 8, 2016.	1.5	31
59	Major changes in microbial diversity and community composition across gut sections of a juvenile <i>Panochlora</i> cockroach. <i>PLoS ONE</i> , 2017, 12, e0177189.	1.1	20
60	Complete Genome Sequence of <i>Rhodococcus</i> sp. Strain WMMA185, a Marine Sponge-Associated Bacterium. <i>Genome Announcements</i> , 2016, 4, .	0.8	6
61	Whole-Genome Sequence of <i>Bacillus</i> sp. SDLI1, Isolated from the Social Bee <i>Scaptotrigona depilis</i> . <i>Genome Announcements</i> , 2016, 4, .	0.8	9
62	Evolution and Ecology of Actinobacteria and Their Bioenergy Applications. <i>Annual Review of Microbiology</i> , 2016, 70, 235-254.	2.9	249
63	The fungal cultivar of leaf-cutter ants produces specific enzymes in response to different plant substrates. <i>Molecular Ecology</i> , 2016, 25, 5795-5805.	2.0	37
64	Selvamicin, an atypical antifungal polyene from two alternative genomic contexts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12940-12945.	3.3	88
65	Small genome of the fungus <i>Escovopsis weberi</i> , a specialized disease agent of ant agriculture. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 3567-3572.	3.3	71
66	Evolution of High Cellulolytic Activity in Symbiotic <i>Streptomyces</i> through Selection of Expanded Gene Content and Coordinated Gene Expression. <i>PLoS Biology</i> , 2016, 14, e1002475.	2.6	68
67	Cellulose-Enriched Microbial Communities from Leaf-Cutter Ant (<i>Atta colombica</i>) Refuse Dumps Vary in Taxonomic Composition and Degradation Ability. <i>PLoS ONE</i> , 2016, 11, e0151840.	1.1	29
68	Variable genetic architectures produce virtually identical molecules in bacterial symbionts of fungus-growing ants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13150-13154.	3.3	86
69	Microbes are trophic analogs of animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 15119-15124.	3.3	113
70	Bacteria influence mountain pine beetle brood development through interactions with symbiotic and antagonistic fungi: implications for climate-driven host range expansion. <i>Oecologia</i> , 2015, 179, 467-485.	0.9	39
71	A Rebeccamycin Analog Provides Plasmid-Encoded Niche Defense. <i>Journal of the American Chemical Society</i> , 2015, 137, 14272-14274.	6.6	44
72	Unique Honey Bee (<i>Apis mellifera</i>) Hive Component-Based Communities as Detected by a Hybrid of Phospholipid Fatty-Acid and Fatty-Acid Methyl Ester Analyses. <i>PLoS ONE</i> , 2015, 10, e0121697.	1.1	12

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73	Enrichment and Broad Representation of Plant Biomass-Degrading Enzymes in the Specialized Hyphal Swellings of <i>Leucoagaricus gongylophorus</i> , the Fungal Symbiont of Leaf-Cutter Ants. <i>PLoS ONE</i> , 2015, 10, e0134752.	1.1	28
74	Evolution of substrate specificity in bacterial AA10 lytic polysaccharide monooxygenases. <i>Biotechnology for Biofuels</i> , 2014, 7, 109.	6.2	69
75	Interaction between Workers during a Short Time Window Is Required for Bacterial Symbiont Transmission in <i>Acromyrmex</i> Leaf-Cutting Ants. <i>PLoS ONE</i> , 2014, 9, e103269.	1.1	36
76	Bacterial symbionts in agricultural systems provide a strategic source for antibiotic discovery. <i>Journal of Antibiotics</i> , 2014, 67, 53-58.	1.0	77
77	Natalamycin A, an ansamycin from a termite-associated <i>Streptomyces</i> sp.. <i>Chemical Science</i> , 2014, 5, 4333-4338.	3.7	83
78	Cellulolytic <i>Streptomyces</i> Strains Associated with Herbivorous Insects Share a Phylogenetically Linked Capacity To Degrade Lignocellulose. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4692-4701.	1.4	70
79	Biochemical Properties and Atomic Resolution Structure of a Proteolytically Processed β -Mannanase from Cellulolytic <i>Streptomyces</i> sp. <i>Sirex</i> AA-E. <i>PLoS ONE</i> , 2014, 9, e94166.	1.1	18
80	Minimization of chloroplast contamination in 16S rRNA gene pyrosequencing of insect herbivore bacterial communities. <i>Journal of Microbiological Methods</i> , 2013, 95, 149-155.	0.7	181
81	Aerobic deconstruction of cellulosic biomass by an insect-associated <i>Streptomyces</i> . <i>Scientific Reports</i> , 2013, 3, 1030.	1.6	107
82	The Evolutionary Innovation of Nutritional Symbioses in Leaf-Cutter Ants. <i>Insects</i> , 2012, 3, 41-61.	1.0	51
83	The Population Structure of Antibiotic-Producing Bacterial Symbionts of <i>Apterostigma dentigerum</i> Ants: Impacts of Coevolution and Multipartite Symbiosis. <i>American Naturalist</i> , 2012, 180, 604-617.	1.0	35
84	Metagenomic and metaproteomic insights into bacterial communities in leaf-cutter ant fungus gardens. <i>ISME Journal</i> , 2012, 6, 1688-1701.	4.4	126
85	Specificity in the symbiotic association between fungus-growing ants and protective <i>Pseudonocardia</i> bacteria. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 1814-1822.	1.2	135
86	Chemical Analyses of Wasp-Associated <i>Streptomyces</i> Bacteria Reveal a Prolific Potential for Natural Products Discovery. <i>PLoS ONE</i> , 2011, 6, e16763.	1.1	125
87	Cellulose-degrading bacteria associated with the invasive woodwasp <i>Sirex noctilio</i> . <i>ISME Journal</i> , 2011, 5, 1323-1331.	4.4	154
88	Variation in <i>Pseudonocardia</i> antibiotic defence helps govern parasite-induced morbidity in <i>Acromyrmex</i> leaf-cutting ants. <i>Environmental Microbiology Reports</i> , 2010, 2, 534-540.	1.0	77
89	Symbiosis research, technology, and education: Proceedings of the 6th International Symbiosis Society Congress held in Madison Wisconsin, USA, August 2009. <i>Symbiosis</i> , 2010, 51, 1-12.	1.2	1
90	An Insect Herbivore Microbiome with High Plant Biomass-Degrading Capacity. <i>PLoS Genetics</i> , 2010, 6, e1001129.	1.5	213

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91	Microbial Community Structure of Leaf-Cutter Ant Fungus Gardens and Refuse Dumps. PLoS ONE, 2010, 5, e9922.	1.1	84
92	Dentigerumycin: a bacterial mediator of an ant-fungus symbiosis. Nature Chemical Biology, 2009, 5, 391-393.	3.9	360
93	Symbiotic Nitrogen Fixation in the Fungus Gardens of Leaf-Cutter Ants. Science, 2009, 326, 1120-1123.	6.0	310
94	Bacterial Protection of Beetle-Fungus Mutualism. Science, 2008, 322, 63-63.	6.0	411
95	Antagonistic Bacterial Interactions Help Shape Host-Symbiont Dynamics within the Fungus-Growing Ant-Microbe Mutualism. PLoS ONE, 2007, 2, e960.	1.1	44
96	Coevolved Crypts and Exocrine Glands Support Mutualistic Bacteria in Fungus-Growing Ants. Science, 2006, 311, 81-83.	6.0	296
97	Phylogenetic analysis of mutualistic filamentous bacteria associated with fungus-growing ants. Canadian Journal of Microbiology, 2005, 51, 441-446.	0.8	122
98	Pathogenicity of Escovopsis weberi: The Parasite of the Attine Ant-Microbe Symbiosis Directly Consumes the Ant-Cultivated Fungus. Mycologia, 2004, 96, 955.	0.8	51
99	Pathogenicity of Escovopsis weberi: The parasite of the attine ant-microbe symbiosis directly consumes the ant-cultivated fungus. Mycologia, 2004, 96, 955-9.	0.8	46
100	Weeding and grooming of pathogens in agriculture by ants. Proceedings of the Royal Society B: Biological Sciences, 2001, 268, 1033-1039.	1.2	246
101	A Community of Ants, Fungi, and Bacteria: A Multilateral Approach to Studying Symbiosis. Annual Review of Microbiology, 2001, 55, 357-380.	2.9	272
102	Fungus-growing ants use antibiotic-producing bacteria to control garden parasites. Nature, 1999, 398, 701-704.	13.7	705