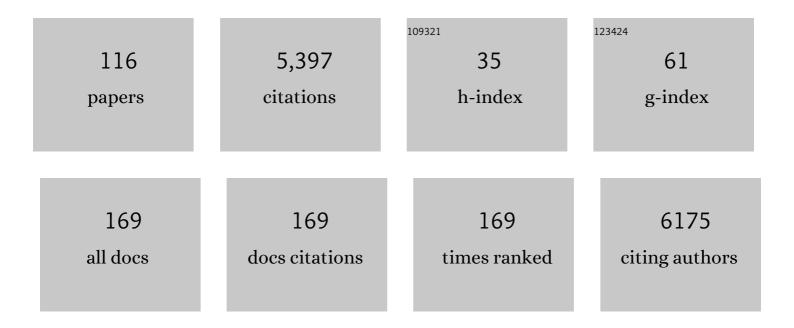
Vaughn S Cooper

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	<i>Staphylococcus aureus</i> genotype variation among and within periprosthetic joint infections. Journal of Orthopaedic Research, 2022, 40, 420-428.	2.3	7
2	Whole-Genome Sequencing Surveillance and Machine Learning of the Electronic Health Record for Enhanced Healthcare Outbreak Detection. Clinical Infectious Diseases, 2022, 75, 476-482.	5.8	42
3	The Nutritional Environment Is Sufficient To Select Coexisting Biofilm and Quorum Sensing Mutants of Pseudomonas aeruginosa. Journal of Bacteriology, 2022, 204, JB0044421.	2.2	8
4	SprayNPray: user-friendly taxonomic profiling of genome and metagenome contigs. BMC Genomics, 2022, 23, 202.	2.8	4
5	Carbapenem-Resistant Acinetobacter baumannii in U.S. Hospitals: Diversification of Circulating Lineages and Antimicrobial Resistance. MBio, 2022, 13, e0275921.	4.1	27
6	Immunosuppression broadens evolutionary pathways to drug resistance and treatment failure during Acinetobacter baumannii pneumonia in mice. Nature Microbiology, 2022, 7, 796-809.	13.3	17
7	Evolved resistance to a novel cationic peptide antibiotic requires high mutation supply. Evolution, Medicine and Public Health, 2022, 10, 266-276.	2.5	5
8	Genomic Diversity of Hospital-Acquired Infections Revealed through Prospective Whole-Genome Sequencing-Based Surveillance. MSystems, 2022, 7, .	3.8	10
9	Quorum sensing provides a molecular mechanism for evolution to tune and maintain investment in cooperation. ISME Journal, 2021, 15, 1236-1247.	9.8	18
10	Genomic and Chemical Diversity of Bacillus subtilis Secondary Metabolites against Plant Pathogenic Fungi. MSystems, 2021, 6, .	3.8	55
11	Full characterization of plasmids from Achromobacter ruhlandii isolates recovered from a single patient with cystic fibrosis (CF). Revista Argentina De Microbiologia, 2021, , .	0.7	0
12	<i>In Vitro</i> Susceptibility of Multidrug-Resistant Pseudomonas aeruginosa following Treatment-Emergent Resistance to Ceftolozane-Tazobactam. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	31
13	Role of bacterial motility in differential resistance mechanisms of silver nanoparticles and silver ions. Nature Nanotechnology, 2021, 16, 996-1003.	31.5	112
14	Rampant prophage movement among transient competitors drives rapid adaptation during infection. Science Advances, 2021, 7, .	10.3	14
15	Quantitative mapping of mRNA 3' ends in Pseudomonas aeruginosa reveals a pervasive role for premature 3' end formation in response to azithromycin. PLoS Genetics, 2021, 17, e1009634.	3.5	7
16	Precise measurement of the fitness effects of spontaneous mutations by droplet digital PCR in <i>Burkholderia cenocepacia</i> . Genetics, 2021, 219, .	2.9	1
17	Evolution towards Virulence in a <i>Burkholderia</i> Two-Component System. MBio, 2021, 12, e0182321.	4.1	3
18	Polygenic Adaptation and Clonal Interference Enable Sustained Diversity in Experimental <i>Pseudomonas aeruginosa</i> Populations. Molecular Biology and Evolution, 2021, 38, 5359-5375.	8.9	20

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19	The roles of history, chance, and natural selection in the evolution of antibiotic resistance. ELife, 2021, 10, .	6.0	20
20	Evolutionary Divergence of the Wsp Signal Transduction Systems in Beta- and Gammaproteobacteria. Applied and Environmental Microbiology, 2021, 87, e0130621.	3.1	9
21	Emergence of an early SARS-CoV-2 epidemic in the United States. Cell, 2021, 184, 4939-4952.e15.	28.9	31
22	Outbreak of <i>Pseudomonas aeruginosa</i> Infections from a Contaminated Gastroscope Detected by Whole Genome Sequencing Surveillance. Clinical Infectious Diseases, 2021, 73, e638-e642.	5.8	26
23	Adaptation and genomic erosion in fragmented Pseudomonas aeruginosa populations in the sinuses of people with cystic fibrosis. Cell Reports, 2021, 37, 109829.	6.4	19
24	Outbreak of Vancomycin-resistant Enterococcus faecium in Interventional Radiology: Detection Through Whole-genome Sequencing-based Surveillance. Clinical Infectious Diseases, 2020, 70, 2336-2343.	5.8	43
25	Negative frequencyâ€dependent selection maintains coexisting genotypes during fluctuating selection. Molecular Ecology, 2020, 29, 138-148.	3.9	13
26	One gene, multiple ecological strategies: A biofilm regulator is a capacitor for sustainable diversity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21647-21657.	7.1	18
27	Comparative Evolutionary Patterns of Burkholderia cenocepacia and B. multivorans During Chronic Co-infection of a Cystic Fibrosis Patient Lung. Frontiers in Microbiology, 2020, 11, 574626.	3.5	7
28	Experimental Evolution <i>In Vivo</i> To Identify Selective Pressures during Pneumococcal Colonization. MSystems, 2020, 5, .	3.8	18
29	Parallel Evolution of Tobramycin Resistance across Species and Environments. MBio, 2020, 11, .	4.1	59
30	Adaptation and Survival of Burkholderia cepacia and B. contaminans During Long-Term Incubation in Saline Solutions Containing Benzalkonium Chloride. Frontiers in Bioengineering and Biotechnology, 2020, 8, 630.	4.1	14
31	Mapping of Influenza Virus RNA-RNA Interactions Reveals a Flexible Network. Cell Reports, 2020, 31, 107823.	6.4	50
32	Complete Genome Sequences of 13 Bacillus subtilis Soil Isolates for Studying Secondary Metabolite Diversity. Microbiology Resource Announcements, 2020, 9, .	0.6	13
33	Systematic detection of horizontal gene transfer across genera among multidrug-resistant bacteria in a single hospital. ELife, 2020, 9, .	6.0	85
34	Environment changes epistasis to alter tradeâ€offs along alternative evolutionary paths. Evolution; International Journal of Organic Evolution, 2019, 73, 2094-2105.	2.3	28
35	Pseudomonas aeruginosa Interstrain Dynamics and Selection of Hyperbiofilm Mutants during a Chronic Infection. MBio, 2019, 10, .	4.1	39
36	A method of processing nasopharyngeal swabs to enable multiple testing. Pediatric Research, 2019, 86, 651-654.	2.3	12

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37	Forecasting Seasonal Vibrio parahaemolyticus Concentrations in New England Shellfish. International Journal of Environmental Research and Public Health, 2019, 16, 4341.	2.6	22
38	High-Level Carbapenem Resistance in OXA-232-Producing Raoultella ornithinolytica Triggered by Ertapenem Therapy. Antimicrobial Agents and Chemotherapy, 2019, 64, .	3.2	11
39	Evolution of Outbreak-Causing Carbapenem-Resistant Klebsiella pneumoniae ST258 at a Tertiary Care Hospital over 8 Years. MBio, 2019, 10, .	4.1	66
40	NADH Dehydrogenases in Pseudomonas aeruginosa Growth and Virulence. Frontiers in Microbiology, 2019, 10, 75.	3.5	20
41	Reduced ceftazidime and ertapenem susceptibility due to production of OXA-2 in Klebsiella pneumoniae ST258. Journal of Antimicrobial Chemotherapy, 2019, 74, 2203-2208.	3.0	3
42	EvolvingSTEM: a microbial evolution-in-action curriculum that enhances learning of evolutionary biology and biotechnology. Evolution: Education and Outreach, 2019, 12, 12.	0.8	7
43	Use of a cohorting-unit and systematic surveillance cultures to control a Klebsiella pneumoniae carbapenemase (KPC)–producing Enterobacteriaceae outbreak. Infection Control and Hospital Epidemiology, 2019, 40, 767-773.	1.8	5
44	Use of online tools for antimicrobial resistance prediction by whole-genome sequencing in methicillin-resistant Staphylococcus aureus (MRSA) and vancomycin-resistant enterococci (VRE). Journal of Global Antimicrobial Resistance, 2019, 19, 136-143.	2.2	17
45	Structural basis of DSF recognition by its receptor RpfR and its regulatory interaction with the DSF synthase RpfF. PLoS Biology, 2019, 17, e3000123.	5.6	23
46	Hidden resources in the <i>Escherichia coli</i> genome restore PLP synthesis and robust growth after deletion of the essential gene <i>pdxB</i> . Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24164-24173.	7.1	23
47	Expression of myeloid Src-family kinases is associated with poor prognosis in AML and influences Flt3-ITD kinase inhibitor acquired resistance. PLoS ONE, 2019, 14, e0225887.	2.5	16
48	<i>Clostridioides difficile</i> : a potential source of NpmA in the clinical environment. Journal of Antimicrobial Chemotherapy, 2019, 74, 521-523.	3.0	13
49	Evolutionary pathways to antibiotic resistance are dependent upon environmental structure and bacterial lifestyle. ELife, 2019, 8, .	6.0	115
50	Mutations that improve efficiency of a weak-link enzyme are rare compared to adaptive mutations elsewhere in the genome. ELife, 2019, 8, .	6.0	17
51	Frequency and Mechanisms of Spontaneous Fosfomycin Nonsusceptibility Observed upon Disk Diffusion Testing of Escherichia coli. Journal of Clinical Microbiology, 2018, 56, .	3.9	32
52	Non-Uniform and Non-Random Binding of Nucleoprotein to Influenza A and B Viral RNA. Viruses, 2018, 10, 522.	3.3	25
53	Improved Detection of Culprit Pathogens by Bacterial DNA Sequencing Affects Antibiotic Management Decisions in Severe Pneumonia. American Journal of Case Reports, 2018, 19, 1405-1409.	0.8	5
54	Parallel genetic adaptation across environments differing in mode of growth or resource availability. Evolution Letters, 2018, 2, 355-367.	3.3	62

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55	Synonymous mutations make dramatic contributions to fitness when growth is limited by a weak-link enzyme. PLoS Genetics, 2018, 14, e1007615.	3.5	77
56	Experimental Evolution as a High-Throughput Screen for Genetic Adaptations. MSphere, 2018, 3, .	2.9	88
57	New Insights from Elucidating the Role of LMP1 in Nasopharyngeal Carcinoma. Cancers, 2018, 10, 86.	3.7	29
58	Periodic Variation of Mutation Rates in Bacterial Genomes Associated with Replication Timing. MBio, 2018, 9, .	4.1	30
59	Phylogenomics of colistin-susceptible and resistant XDR Acinetobacter baumannii. Journal of Antimicrobial Chemotherapy, 2018, 73, 2952-2959.	3.0	41
60	The OmpR Regulator of Burkholderia multivorans Controls Mucoid-to-Nonmucoid Transition and Other Cell Envelope Properties Associated with Persistence in the Cystic Fibrosis Lung. Journal of Bacteriology, 2018, 200, .	2.2	15
61	Thrombospondin-1 protects against pathogen-induced lung injury by limiting extracellular matrix proteolysis. JCI Insight, 2018, 3, .	5.0	36
62	Genetic requirements for Staphylococcus aureus nitric oxide resistance and virulence. PLoS Pathogens, 2018, 14, e1006907.	4.7	62
63	Ceftolozane-Tazobactam for the Treatment of Multidrug-Resistant Pseudomonas aeruginosa Infections: Clinical Effectiveness and Evolution of Resistance. Clinical Infectious Diseases, 2017, 65, 110-120.	5.8	224
64	Sequence Type 631 Vibrio parahaemolyticus, an Emerging Foodborne Pathogen in North America. Journal of Clinical Microbiology, 2017, 55, 645-648.	3.9	23
65	Outbreak of <i>Klebsiella pneumoniae</i> Carbapenemase–Producing <i>Citrobacter freundii</i> at a Tertiary Acute Care Facility in Miami, Florida. Infection Control and Hospital Epidemiology, 2017, 38, 320-326.	1.8	21
66	RelA Mutant <i>Enterococcus faecium</i> with Multiantibiotic Tolerance Arising in an Immunocompromised Host. MBio, 2017, 8, .	4.1	72
67	Structural modification of LPS in colistin-resistant, KPC-producing Klebsiella pneumoniae. Journal of Antimicrobial Chemotherapy, 2017, 72, 3035-3042.	3.0	59
68	Parallel Evolution of Two Clades of an Atlantic-Endemic Pathogenic Lineage of Vibrio parahaemolyticus by Independent Acquisition of Related Pathogenicity Islands. Applied and Environmental Microbiology, 2017, 83, .	3.1	27
69	Genome-wide analysis of influenza viral RNA and nucleoprotein association. Nucleic Acids Research, 2017, 45, 8968-8977.	14.5	75
70	Genome-Wide Biases in the Rate and Molecular Spectrum of Spontaneous Mutations in <i>Vibrio cholerae</i> and <i>Vibrio fischeri</i> . Molecular Biology and Evolution, 2017, 34, 93-109.	8.9	81
71	High-Level Fosfomycin Resistance in Vancomycin-Resistant Enterococcus faecium. Emerging Infectious Diseases, 2017, 23, 1902-1904.	4.3	23
72	Structure of O-Antigen and Hybrid Biosynthetic Locus in Burkholderia cenocepacia Clonal Variants Recovered from a Cystic Fibrosis Patient. Frontiers in Microbiology, 2017, 8, 1027.	3.5	19

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73	Comparative genomics of Burkholderia multivorans, a ubiquitous pathogen with a highly conserved genomic structure. PLoS ONE, 2017, 12, e0176191.	2.5	17
74	Host-selected mutations converging on a global regulator drive an adaptive leap towards symbiosis in bacteria. ELife, 2017, 6, .	6.0	40
75	Phylogenomic Study of Burkholderia glathei-like Organisms, Proposal of 13 Novel Burkholderia Species and Emended Descriptions of Burkholderia sordidicola, Burkholderia zhejiangensis, and Burkholderia grimmiae. Frontiers in Microbiology, 2016, 7, 877.	3.5	120
76	Diverse phenotypic and genetic responses to short-term selection in evolving <i>Escherichia coli</i> populations. Evolution; International Journal of Organic Evolution, 2016, 70, 586-599.	2.3	28
77	Long-Term Evolution of Burkholderia multivorans during a Chronic Cystic Fibrosis Infection Reveals Shifting Forces of Selection. MSystems, 2016, 1, .	3.8	93
78	Laboratory Evolution of Microbial Interactions in Bacterial Biofilms. Journal of Bacteriology, 2016, 198, 2564-2571.	2.2	69
79	Benefit of transferred mutations is better predicted by the fitness of recipients than by their ecological or genetic relatedness. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5047-5052.	7.1	41
80	Evolution of the Insertion-Deletion Mutation Rate Across the Tree of Life. G3: Genes, Genomes, Genetics, 2016, 6, 2583-2591.	1.8	89
81	Characterization of a Novel IncHI2 Plasmid Carrying Tandem Copies of <i>bla</i> _{CTX-M-2} in a <i>fosA6</i> -Harboring Escherichia coli Sequence Type 410 Strain. Antimicrobial Agents and Chemotherapy, 2016, 60, 6742-6747.	3.2	12
82	The Fitness Effects of Spontaneous Mutations Nearly Unseen by Selection in a Bacterium with Multiple Chromosomes. Genetics, 2016, 204, 1225-1238.	2.9	22
83	Evolution of Ecological Diversity in Biofilms of Pseudomonas aeruginosa by Altered Cyclic Diguanylate Signaling. Journal of Bacteriology, 2016, 198, 2608-2618.	2.2	74
84	Glutathione- <i>S</i> -transferase FosA6 of <i>Klebsiella pneumoniae</i> origin conferring fosfomycin resistance in ESBL-producing <i>Escherichia coli</i> . Journal of Antimicrobial Chemotherapy, 2016, 71, 2460-2465.	3.0	49
85	Environmental Conditions Associated with Elevated Vibrio parahaemolyticus Concentrations in Great Bay Estuary, New Hampshire. PLoS ONE, 2016, 11, e0155018.	2.5	31
86	Character displacement and the evolution of niche complementarity in a model biofilm community. Evolution; International Journal of Organic Evolution, 2015, 69, 283-293.	2.3	39
87	Genetic characterization of clinical and environmental Vibrio parahaemolyticus from the Northeast USA reveals emerging resident and non-indigenous pathogen lineages. Frontiers in Microbiology, 2015, 6, 272.	3.5	40
88	The Rate and Molecular Spectrum of Spontaneous Mutations in the GC-Rich Multichromosome Genome of <i>Burkholderia cenocepacia</i> . Genetics, 2015, 200, 935-946.	2.9	75
89	There and back again: consequences of biofilm specialization under selection for dispersal. Frontiers in Genetics, 2015, 6, 18.	2.3	26
90	Use of Whole-Genome Phylogeny and Comparisons for Development of a Multiplex PCR Assay To Identify Sequence Type 36 Vibrio parahaemolyticus. Journal of Clinical Microbiology, 2015, 53, 1864-1872.	3.9	21

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91	Genome sequence and comparative analysis of a putative entomopathogenic Serratia isolated from Caenorhabditis briggsae. BMC Genomics, 2015, 16, 531.	2.8	27
92	The Origins of Specialization: Insights from Bacteria Held 25 Years in Captivity. PLoS Biology, 2014, 12, e1001790.	5.6	22
93	Antibiotic resistance correlates with transmission in plasmid evolution. Evolution; International Journal of Organic Evolution, 2014, 68, 3368-3380.	2.3	39
94	Parallel evolution of small colony variants in Burkholderia cenocepacia biofilms. Genomics, 2014, 104, 447-452.	2.9	47
95	The Environment Affects Epistatic Interactions to Alter the Topology of an Empirical Fitness Landscape. PLoS Genetics, 2013, 9, e1003426.	3.5	94
96	Tangled bank of experimentally evolved <i>Burkholderia</i> biofilms reflects selection during chronic infections. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E250-9.	7.1	183
97	Influence of Seasonality on the Genetic Diversity of Vibrio parahaemolyticus in New Hampshire Shellfish Waters as Determined by Multilocus Sequence Analysis. Applied and Environmental Microbiology, 2012, 78, 3778-3782.	3.1	31
98	Evolutionary Effects of Translocations in Bacterial Genomes. Genome Biology and Evolution, 2012, 4, 1256-1262.	2.5	28
99	Ecological succession in long-term experimentally evolved biofilms produces synergistic communities. ISME Journal, 2011, 5, 369-378.	9.8	151
100	Ecology and Genetic Structure of a Northern Temperate Vibrio cholerae Population Related to Toxigenic Isolates. Applied and Environmental Microbiology, 2011, 77, 7568-7575.	3.1	32
101			

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109	Mechanisms Causing Rapid and Parallel Losses of Ribose Catabolism in Evolving Populations of Escherichia coli B. Journal of Bacteriology, 2001, 183, 2834-2841.	2.2	260
110	EVOLUTION OF THERMAL DEPENDENCE OF GROWTH RATE OF ESCHERICHIA COLI POPULATIONS DURING 20,000 GENERATIONS IN A CONSTANT ENVIRONMENT. Evolution; International Journal of Organic Evolution, 2001, 55, 889.	2.3	144
111	EVOLUTION OF THERMAL DEPENDENCE OF GROWTH RATE OF ESCHERICHIA COLI POPULATIONS DURING 20,000 GENERATIONS IN A CONSTANT ENVIRONMENT. Evolution; International Journal of Organic Evolution, 2001, 55, 889-896.	2.3	9
112	Rapid phenotypic change and diversification of a soil bacterium during 1000 generations of experimental evolution. Microbiology (United Kingdom), 2001, 147, 995-1006.	1.8	48
113	The population genetics of ecological specialization in evolving Escherichia coli populations. Nature, 2000, 407, 736-739.	27.8	447
114	TRADEOFF BETWEEN HORIZONTAL AND VERTICAL MODES OF TRANSMISSION IN BACTERIAL PLASMIDS. Evolution; International Journal of Organic Evolution, 1998, 52, 315-329.	2.3	120
115	Experimental Evolution of Pathogens. , 0, , 215-224.		0
116	The Study of Microbial Adaptation by Long-Term Experimental Evolution. , 0, , 55-81.		2