

Frederick M Cohan

List of Publications by Year in descending order

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78
papers

7,056
citations

87888

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82547

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times ranked

6188
citing authors

#	ARTICLE	IF	CITATIONS
1	Genotyping and Multivariate Regression Trees Reveal Ecological Diversification within the <i>Microcystis aeruginosa</i> Complex along a Wide Environmental Gradient. <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0147521.	3.1	2
2	Broad-scale phage therapy is unlikely to select for widespread evolution of bacterial resistance to virus infection. <i>Virus Evolution</i> , 2020, 6, veaa060.	4.9	14
3	Biogeography of American Northwest Hot Spring A/B ϵ^2 -Lineage <i>Synechococcus</i> Populations. <i>Frontiers in Microbiology</i> , 2020, 11, 77.	3.5	24
4	Differentiation strategies of soil rare and abundant microbial taxa in response to changing climatic regimes. <i>Environmental Microbiology</i> , 2020, 22, 1327-1340.	3.8	164
5	Systematics: The Cohesive Nature of Bacterial Species Taxa. <i>Current Biology</i> , 2019, 29, R169-R172.	3.9	18
6	Transmission in the Origins of Bacterial Diversity, From Ecotypes to Phyla. , 2019, , 311-343.		4
7	Genomic plasticity and rapid host switching can promote the evolution of generalism: a case study in the zoonotic pathogen <i>Campylobacter</i> . <i>Scientific Reports</i> , 2017, 7, 9650.	3.3	34
8	Transmission in the Origins of Bacterial Diversity, From Ecotypes to Phyla. <i>Microbiology Spectrum</i> , 2017, 5, .	3.0	46
9	<i>Bacillus swezeyi</i> sp. nov. and <i>Bacillus haynesii</i> sp. nov., isolated from desert soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2017, 67, 2720-2725.	1.7	38
10	Bacterial Speciation: Genetic Sweeps in Bacterial Species. <i>Current Biology</i> , 2016, 26, R112-R115.	3.9	39
11	<i>Bacillus nakamurai</i> sp. nov., a black-pigment-producing strain. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 2987-2991.	1.7	21
12	The molecular dimension of microbial species: 1. Ecological distinctions among, and homogeneity within, putative ecotypes of <i>Synechococcus</i> inhabiting the cyanobacterial mat of Mushroom Spring, Yellowstone National Park. <i>Frontiers in Microbiology</i> , 2015, 6, 590.	3.5	49
13	The molecular dimension of microbial species: 3. Comparative genomics of <i>Synechococcus</i> strains with different light responses and in situ diel transcription patterns of associated putative ecotypes in the Mushroom Spring microbial mat. <i>Frontiers in Microbiology</i> , 2015, 6, 604.	3.5	67
14	Recombination Does Not Hinder Formation or Detection of Ecological Species of <i>Synechococcus</i> Inhabiting a Hot Spring Cyanobacterial Mat. <i>Frontiers in Microbiology</i> , 2015, 6, 1540.	3.5	16
15	Accuracy and efficiency of algorithms for the demarcation of bacterial ecotypes from DNA sequence data. <i>International Journal of Bioinformatics Research and Applications</i> , 2014, 10, 409.	0.2	7
16	Genomic Heterogeneity and Ecological Speciation within One Subspecies of <i>Bacillus subtilis</i> . <i>Applied and Environmental Microbiology</i> , 2014, 80, 4842-4853.	3.1	44
17	Speedy speciation in a bacterial microcosm: new species can arise as frequently as adaptations within a species. <i>ISME Journal</i> , 2013, 7, 1080-1091.	9.8	62
18	The Variable Subdomain of <i>Escherichia coli</i> SecA Functions To Regulate SecA ATPase Activity and ADP Release. <i>Journal of Bacteriology</i> , 2012, 194, 2205-2213.	2.2	12

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19	Demarcation of bacterial ecotypes from DNA sequence data: A comparative analysis of four algorithms. , 2012, , .		4
20	Functional Genomics in an Ecological and Evolutionary Context: Maximizing the Value of Genomes in Systems Biology. Advances in Photosynthesis and Respiration, 2012, , 1-16.	1.0	7
21	Prokaryotic Sex: Eukaryote-like Qualities of Recombination in an Archaeal Lineage. Current Biology, 2012, 22, R601-R602.	3.9	13
22	Diversity of Bacteria and Archaea in hypersaline sediment from Death Valley National Park, California. MicrobiologyOpen, 2012, 1, 135-148.	3.0	21
23	The quorum sensing diversity within and between ecotypes of <i>Bacillus subtilis</i> . Environmental Microbiology, 2012, 14, 1378-1389.	3.8	49
24	Science Needs More &Moneyball&. American Scientist, 2012, 100, 182.	0.1	5
25	Fine-Scale Distribution Patterns of Synechococcus Ecological Diversity in Microbial Mats of Mushroom Spring, Yellowstone National Park. Applied and Environmental Microbiology, 2011, 77, 7689-7697.	3.1	72
26	A Theory-Based Pragmatism for Discovering and Classifying Newly Divergent Bacterial Species. , 2011, , 21-41.		14
27	Origins of bacterial diversity through horizontal genetic transfer and adaptation to new ecological niches. FEMS Microbiology Reviews, 2011, 35, 957-976.	8.6	517
28	Microbial Genomics: E.Âcoli Relatives Out of Doors and Out of Body. Current Biology, 2011, 21, R587-R589.	3.9	16
29	Community ecology of hot spring cyanobacterial mats: predominant populations and their functional potential. ISME Journal, 2011, 5, 1262-1278.	9.8	206
30	Influence of Molecular Resolution on Sequence-Based Discovery of Ecological Diversity among <i>Synechococcus</i> Populations in an Alkaline Siliceous Hot Spring Microbial Mat. Applied and Environmental Microbiology, 2011, 77, 1359-1367.	3.1	44
31	Synthetic Biology: Now that We're Creators, What Should We Create?. Current Biology, 2010, 20, R675-R677.	3.9	9
32	Ecology of Speciation in the Genus <i>Bacillus</i> . Applied and Environmental Microbiology, 2010, 76, 1349-1358.	3.1	97
33	The Origins of Ecological Diversity in Prokaryotes. Current Biology, 2008, 18, R1024-R1034.	3.9	159
34	Identifying the fundamental units of bacterial diversity: A paradigm shift to incorporate ecology into bacterial systematics. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2504-2509.	7.1	286
35	Population level functional diversity in a microbial community revealed by comparative genomic and metagenomic analyses. ISME Journal, 2007, 1, 703-713.	9.8	216
36	Mass spectrometric analysis of lipopeptides from Bacillus strains isolated from diverse geographical locations. FEMS Microbiology Letters, 2007, 271, 83-89.	1.8	94

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37	A Systematics for Discovering the Fundamental Units of Bacterial Diversity. <i>Current Biology</i> , 2007, 17, R373-R386.	3.9	236
38	Estimating Bacterial Diversity from Environmental DNA: A Maximum Likelihood Approach. , 2007, , 133-144.		0
39	Identifying the Fundamental Units of Diversity Among Bacillus Isolates From "Evolution Canyon" III. <i>Israel Journal of Ecology and Evolution</i> , 2006, 52, 543-552.	0.6	7
40	Towards a conceptual and operational union of bacterial systematics, ecology, and evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 1985-1996.	4.0	187
41	Cyanobacterial ecotypes in the microbial mat community of Mushroom Spring (Yellowstone National) Tj ETQq1 1 0.784314 rgBT /Overl function. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 1997-2008.	4.0	183
42	Re-evaluating prokaryotic species. <i>Nature Reviews Microbiology</i> , 2005, 3, 733-739.	28.6	1,019
43	Periodic Selection and Ecological Diversity in Bacteria. , 2005, , 78-93.		28
44	Gradual evolution in bacteria: evidence from Bacillus systematics. <i>Microbiology (United Kingdom)</i> , 2003, 149, 3565-3573.	1.8	40
45	What are Bacterial Species?. <i>Annual Review of Microbiology</i> , 2002, 56, 457-487.	7.3	660
46	Sexual Isolation and Speciation in Bacteria. <i>Genetica</i> , 2002, 116, 359-370.	1.1	72
47	Sexual isolation and speciation in bacteria. <i>Contemporary Issues in Genetics and Evolution</i> , 2002, , 359-370.	0.9	6
48	Sexual isolation and speciation in bacteria. <i>Genetica</i> , 2002, 116, 359-70.	1.1	38
49	Bacterial Species and Speciation. <i>Systematic Biology</i> , 2001, 50, 513-524.	5.6	339
50	Bacterial Species and Speciation. <i>Systematic Biology</i> , 2001, 50, 513-524.	5.6	24
51	Barriers to Genetic Exchange between Bacterial Species: Streptococcus pneumoniae Transformation. <i>Journal of Bacteriology</i> , 2000, 182, 1016-1023.	2.2	194
52	Note: Relationship of Bacillus subtilis clades associated with strains 168 and W23: A proposal for Bacillus subtilis subsp. subtilis subsp. nov. and Bacillus subtilis subsp. spizizenii subsp. nov.. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 1999, 49, 1211-1215.	1.7	177
53	Adapt Globally, Act Locally: The Effect of Selective Sweeps on Bacterial Sequence Diversity. <i>Genetics</i> , 1999, 152, 1459-1474.	2.9	83
54	DNA Sequence Similarity Requirements for Interspecific Recombination in Bacillus. <i>Genetics</i> , 1999, 153, 1525-1533.	2.9	142

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55	The Effect of Mismatch Repair and Heteroduplex Formation on Sexual Isolation in <i>Bacillus</i> . <i>Genetics</i> , 1998, 148, 13-18.	2.9	95
56	Homology among nearly all plasmids infecting three <i>Bacillus</i> species. <i>Journal of Bacteriology</i> , 1996, 178, 191-198.	2.2	34
57	RECOMBINATION AND MIGRATION RATES IN NATURAL POPULATIONS OF <i>BACILLUS SUBTILIS</i> AND <i>BACILLUS MOJAVENSIS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1995, 49, 1081-1094.	2.3	107
58	DOES RECOMBINATION CONSTRAIN NEUTRAL DIVERGENCE AMONG BACTERIAL TAXA?. <i>Evolution; International Journal of Organic Evolution</i> , 1995, 49, 164-175.	2.3	26
59	Recombination and Migration Rates in Natural Populations of <i>Bacillus subtilis</i> and <i>Bacillus mojavensis</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1995, 49, 1081.	2.3	45
60	Does Recombination Constrain Neutral Divergence Among Bacterial Taxa?. <i>Evolution; International Journal of Organic Evolution</i> , 1995, 49, 164.	2.3	12
61	Genetic exchange and evolutionary divergence in prokaryotes. <i>Trends in Ecology and Evolution</i> , 1994, 9, 175-180.	8.7	101
62	Amelioration of the Deleterious Pleiotropic Effects of an Adaptive Mutation in <i>Bacillus subtilis</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1994, 48, 81.	2.3	34
63	The Effects of Rare but Promiscuous Genetic Exchange on Evolutionary Divergence in Prokaryotes. <i>American Naturalist</i> , 1994, 143, 965-986.	2.1	94
64	AMELIORATION OF THE DELETERIOUS PLEIOTROPIC EFFECTS OF AN ADAPTIVE MUTATION IN <i>BACILLUS SUBTILIS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1994, 48, 81-95.	2.3	62
65	The Potential for Genetic Exchange by Transformation within a Natural Population of <i>Bacillus subtilis</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1991, 45, 1393.	2.3	26
66	THE POTENTIAL FOR GENETIC EXCHANGE BY TRANSFORMATION WITHIN A NATURAL POPULATION OF <i>BACILLUS SUBTILIS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1991, 45, 1393-1421.	2.3	47
67	A TEST OF THE ROLE OF EPISTASIS IN DIVERGENCE UNDER UNIFORM SELECTION. <i>Evolution; International Journal of Organic Evolution</i> , 1989, 43, 766-774.	2.3	32
68	Uniform Selection as a Diversifying Force in Evolution: Evidence from <i>Drosophila</i> . <i>American Naturalist</i> , 1989, 134, 613-637.	2.1	83
69	Olfactory responses of <i>Drosophila melanogaster</i> selected for knockdown resistance to ethanol. <i>Behavior Genetics</i> , 1987, 17, 307-312.	2.1	6
70	Genetic divergence under uniform selection. III. Selection for knockdown resistance to ethanol in <i>Drosophila pseudoobscura</i> populations and their replicate lines. <i>Heredity</i> , 1987, 58, 425-433.	2.6	43
71	GENETIC DIVERGENCE UNDER UNIFORM SELECTION. II. DIFFERENT RESPONSES TO SELECTION FOR KNOCKDOWN RESISTANCE TO ETHANOL AMONG <i>DROSOPHILA MELANOGASTER</i> POPULATIONS AND THEIR REPLICATE LINES. <i>Genetics</i> , 1986, 114, 145-164.	2.9	105
72	LATITUDINAL CLINE IN <i>DROSOPHILA MELANOGASTER</i> FOR KNOCKDOWN RESISTANCE TO ETHANOL FUMES AND FOR RATES OF RESPONSE TO SELECTION FOR FURTHER RESISTANCE. <i>Evolution; International Journal of Organic Evolution</i> , 1985, 39, 278-293.	2.3	57

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73	Ethanol tolerances of <i>Drosophila melanogaster</i> populations selected on different concentrations of ethanol supplemented media. <i>Theoretical and Applied Genetics</i> , 1985, 69-69, 603-608.	3.6	16
74	Latitudinal Cline in <i>Drosophila melanogaster</i> for Knockdown Resistance to Ethanol Fumes and for Rates of Response to Selection for Further Resistance. <i>Evolution; International Journal of Organic Evolution</i> , 1985, 39, 278.	2.3	27
75	Genetic Divergence Under Uniform Selection. I. Similarity Among Populations of <i>Drosophila melanogaster</i> in Their Responses to Artificial Selection for Modifiers of <i>ci D</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1984, 38, 55.	2.3	15
76	Can Uniform Selection Retard Random Genetic Divergence Between Isolated Conspecific Populations?. <i>Evolution; International Journal of Organic Evolution</i> , 1984, 38, 495.	2.3	37
77	Sequence-Based Discovery of Ecological Diversity within <i>Legionella</i> . , 0, , 367-376.		8
78	Are Species Cohesive?-A View from Bacteriology. , 0, , 43-65.		13