

John P Mccutcheon

List of Publications by Year in descending order

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48
papers

11,096
citations

109321

35
h-index

197818

49
g-index

58
all docs

58
docs citations

58
times ranked

10725
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomics and Evolution of Heritable Bacterial Symbionts. <i>Annual Review of Genetics</i> , 2008, 42, 165-190.	7.6	1,460
2	Extreme genome reduction in symbiotic bacteria. <i>Nature Reviews Microbiology</i> , 2012, 10, 13-26.	28.6	1,195
3	Accurate Multiplex Polony Sequencing of an Evolved Bacterial Genome. <i>Science</i> , 2005, 309, 1728-1732.	12.6	1,189
4	Genome Sequence of the Pea Aphid <i>Acyrtosiphon pisum</i> . <i>PLoS Biology</i> , 2010, 8, e1000313.	5.6	913
5	Structure of the Carboxyl-Terminal Dimerization Domain of the HIV-1 Capsid Protein. <i>Science</i> , 1997, 278, 849-853.	12.6	559
6	Basidiomycete yeasts in the cortex of ascomycete macrolichens. <i>Science</i> , 2016, 353, 488-492.	12.6	409
7	Horizontal Gene Transfer from Diverse Bacteria to an Insect Genome Enables a Tripartite Nested Mealybug Symbiosis. <i>Cell</i> , 2013, 153, 1567-1578.	28.9	373
8	Functional horizontal gene transfer from bacteria to eukaryotes. <i>Nature Reviews Microbiology</i> , 2018, 16, 67-79.	28.6	354
9	Structure of a bacterial 30S ribosomal subunit at 5.5Å resolution. <i>Nature</i> , 1999, 400, 833-840.	27.8	347
10	Convergent evolution of metabolic roles in bacterial co-symbionts of insects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15394-15399.	7.1	343
11	A Detailed View of a Ribosomal Active Site. <i>Cell</i> , 1999, 97, 491-502.	28.9	339
12	Parallel genomic evolution and metabolic interdependence in an ancient symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19392-19397.	7.1	327
13	Functional Convergence in Reduced Genomes of Bacterial Symbionts Spanning 200 My of Evolution. <i>Genome Biology and Evolution</i> , 2010, 2, 708-718.	2.5	320
14	An Interdependent Metabolic Patchwork in the Nested Symbiosis of Mealybugs. <i>Current Biology</i> , 2011, 21, 1366-1372.	3.9	317
15	Origin of an Alternative Genetic Code in the Extremely Small and GC-Rich Genome of a Bacterial Symbiont. <i>PLoS Genetics</i> , 2009, 5, e1000565.	3.5	247
16	Repeated replacement of an intrabacterial symbiont in the tripartite nested mealybug symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E5416-24.	7.1	222
17	One Bacterial Cell, One Complete Genome. <i>PLoS ONE</i> , 2010, 5, e10314.	2.5	215
18	Bacterial Genes in the Aphid Genome: Absence of Functional Gene Transfer from <i>Buchnera</i> to Its Host. <i>PLoS Genetics</i> , 2010, 6, e1000827.	3.5	164

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19	The Life of an Insect Endosymbiont from the Cradle to the Grave. <i>Current Biology</i> , 2019, 29, R485-R495.	3.9	157
20	Location of translational initiation factor IF3 on the small ribosomal subunit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 4301-4306.	7.1	139
21	Recurrent symbiont recruitment from fungal parasites in cicadas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5970-E5979.	7.1	138
22	Crystal structure of the 30 S ribosomal subunit from <i>Thermus thermophilus</i> : purification, crystallization and structure determination. <i>Journal of Molecular Biology</i> , 2001, 310, 827-843.	4.2	128
23	Sympatric Speciation in a Bacterial Endosymbiont Results in Two Genomes with the Functionality of One. <i>Cell</i> , 2014, 158, 1270-1280.	28.9	118
24	Genome expansion via lineage splitting and genome reduction in the cicada endosymbiont <i>Hodgkinia</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 10192-10199.	7.1	87
25	Endosymbiosis: The feeling is not mutual. <i>Journal of Theoretical Biology</i> , 2017, 434, 75-79.	1.7	83
26	Computational identification of non-coding RNAs in <i>Saccharomyces cerevisiae</i> by comparative genomics. <i>Nucleic Acids Research</i> , 2003, 31, 4119-4128.	14.5	79
27	Microbes don't play solitaire: how cooperation trumps isolation in the microbial world. <i>Environmental Microbiology Reports</i> , 2015, 7, 26-28.	2.4	78
28	Peptidoglycan Production by an Insect-Bacterial Mosaic. <i>Cell</i> , 2019, 179, 703-712.e7.	28.9	75
29	The bacterial essence of tiny symbiont genomes. <i>Current Opinion in Microbiology</i> , 2010, 13, 73-78.	5.1	73
30	Differential Genome Evolution Between Companion Symbionts in an Insect-Bacterial Symbiosis. <i>MBio</i> , 2014, 5, e01697-14.	4.1	70
31	Multiple origins of interdependent endosymbiotic complexes in a genus of cicadas. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E226-E235.	7.1	69
32	Dynamic recruitment of amino acid transporters to the insect/symbiont interface. <i>Molecular Ecology</i> , 2014, 23, 1608-1623.	3.9	57
33	Population genomics of a symbiont in the early stages of a pest invasion. <i>Molecular Ecology</i> , 2014, 23, 1516-1530.	3.9	50
34	An AT Mutational Bias in the Tiny GC-Rich Endosymbiont Genome of <i>Hodgkinia</i> . <i>Genome Biology and Evolution</i> , 2012, 4, 24-27.	2.5	41
35	Pseudofinder: Detection of Pseudogenes in Prokaryotic Genomes. <i>Molecular Biology and Evolution</i> , 2022, 39, .	8.9	38
36	Idiosyncratic Genome Degradation in a Bacterial Endosymbiont of Periodical Cicadas. <i>Current Biology</i> , 2017, 27, 3568-3575.e3.	3.9	37

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37	From microbiology to cell biology: when an intracellular bacterium becomes part of its host cell. <i>Current Opinion in Cell Biology</i> , 2016, 41, 132-136.	5.4	36
38	Endosymbiosis: Protein Targeting Further Erodes the Organelle/Symbiont Distinction. <i>Current Biology</i> , 2014, 24, R654-R655.	3.9	29
39	Changes in Endosymbiont Complexity Drive Host-Level Compensatory Adaptations in Cicadas. <i>MBio</i> , 2018, 9, .	4.1	29
40	Lineage-Specific Patterns of Genome Deterioration in Obligate Symbionts of Sharpshooter Leafhoppers. <i>Genome Biology and Evolution</i> , 2016, 8, 296-301.	2.5	28
41	Off-target capture data, endosymbiont genes and morphology reveal a relict lineage that is sister to all other singing cicadas. <i>Biological Journal of the Linnean Society</i> , 2019, 128, 865-886.	1.6	27
42	One Hundred Mitochondrial Genomes of Cicadas. <i>Journal of Heredity</i> , 2019, 110, 247-256.	2.4	27
43	The Genomics and Cell Biology of Host-Beneficial Intracellular Infections. <i>Annual Review of Cell and Developmental Biology</i> , 2021, 37, 115-142.	9.4	27
44	The Evolution of Interdependence in a Four-Way Mealybug Symbiosis. <i>Genome Biology and Evolution</i> , 2021, 13, .	2.5	9
45	Cicada Endosymbionts Have tRNAs That Are Correctly Processed Despite Having Genomes That Do Not Encode All of the tRNA Processing Machinery. <i>MBio</i> , 2019, 10, .	4.1	8
46	Lichen fungi do not depend on the alga for ATP production: A comment on Pogoda et al. (2018). <i>Molecular Ecology</i> , 2021, 30, 4155-4159.	3.9	3
47	Genome Evolution: A Bacterium with a Napoleon Complex. <i>Current Biology</i> , 2013, 23, R657-R659.	3.9	2
48	Complete Genome Sequence of <i>Microbacterium</i> Bacteriophage Erla. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	1