

Jacob A Russell

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

5,824
citations

186265

28
h-index

265206

42
g-index

48
all docs

48
docs citations

48
times ranked

4841
citing authors

#	ARTICLE	IF	CITATIONS
1	Facultative bacterial symbionts in aphids confer resistance to parasitic wasps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 1803-1807.	7.1	1,080
2	Environmental and ecological factors that shape the gut bacterial communities of fish: a meta-analysis. <i>Molecular Ecology</i> , 2012, 21, 3363-3378.	3.9	814
3	Costs and benefits of symbiont infection in aphids: variation among symbionts and across temperatures. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2006, 273, 603-610.	2.6	395
4	Evolutionary Relationships of Three New Species of Enterobacteriaceae Living as Symbionts of Aphids and Other Insects. <i>Applied and Environmental Microbiology</i> , 2005, 71, 3302-3310.	3.1	357
5	Bacterial gut symbionts are tightly linked with the evolution of herbivory in ants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 21236-21241.	7.1	318
6	Defensive symbiosis in the real world – advancing ecological studies of heritable, protective bacteria in aphids and beyond. <i>Functional Ecology</i> , 2014, 28, 341-355.	3.6	310
7	Independent origins and horizontal transfer of bacterial symbionts of aphids. <i>Molecular Ecology</i> , 2001, 10, 217-228.	3.9	306
8	Uncovering symbiont-driven genetic diversity across North American pea aphids. <i>Molecular Ecology</i> , 2013, 22, 2045-2059.	3.9	174
9	Highly similar microbial communities are shared among related and trophically similar ant species. <i>Molecular Ecology</i> , 2012, 21, 2282-2296.	3.9	159
10	Insight into the routes of <i>Wolbachia</i> invasion: high levels of horizontal transfer in the spider genus <i>Agelenopsis</i> revealed by <i>Wolbachia</i> strain and mitochondrial DNA diversity. <i>Molecular Ecology</i> , 2008, 17, 557-569.	3.9	154
11	SPECIALIZATION AND GEOGRAPHIC ISOLATION AMONG <i>WOLBACHIA</i> SYMBIONTS FROM ANTS AND LYCAENID BUTTERFLIES. <i>Evolution; International Journal of Organic Evolution</i> , 2009, 63, 624-640.	2.3	148
12	Divergence across diet, time and populations rules out parallel evolution in the gut microbiomes of Trinidadian guppies. <i>ISME Journal</i> , 2015, 9, 1508-1522.	9.8	133
13	Horizontal Transfer of Bacterial Symbionts: Heritability and Fitness Effects in a Novel Aphid Host. <i>Applied and Environmental Microbiology</i> , 2005, 71, 7987-7994.	3.1	126
14	Patterns, causes and consequences of defensive microbiome dynamics across multiple scales. <i>Molecular Ecology</i> , 2015, 24, 1135-1149.	3.9	126
15	Surveying the Microbiome of Ants: Comparing 454 Pyrosequencing with Traditional Methods To Uncover Bacterial Diversity. <i>Applied and Environmental Microbiology</i> , 2013, 79, 525-534.	3.1	122
16	Herbivorous turtle ants obtain essential nutrients from a conserved nitrogen-recycling gut microbiome. <i>Nature Communications</i> , 2018, 9, 964.	12.8	115
17	A Veritable Menagerie of Heritable Bacteria from Ants, Butterflies, and Beyond: Broad Molecular Surveys and a Systematic Review. <i>PLoS ONE</i> , 2012, 7, e51027.	2.5	107
18	Correlates of gut community composition across an ant species (<i>Cephalotes</i>)	3.9	82

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19	Dramatic Differences in Gut Bacterial Densities Correlate with Diet and Habitat in Rainforest Ants. <i>Integrative and Comparative Biology</i> , 2017, 57, 705-722.	2.0	77
20	Context-dependent vertical transmission shapes strong endosymbiont community structure in the pea aphid, <i>Acyrtosiphon pisum</i> . <i>Molecular Ecology</i> , 2018, 27, 2039-2056.	3.9	72
21	Army Ants Harbor a Host-Specific Clade of <i>Entomoplasmatales</i> Bacteria. <i>Applied and Environmental Microbiology</i> , 2011, 77, 346-350.	3.1	68
22	The structured diversity of specialized gut symbionts of the New World army ants. <i>Molecular Ecology</i> , 2017, 26, 3808-3825.	3.9	62
23	Breakdown of a defensive symbiosis, but not endogenous defences, at elevated temperatures. <i>Molecular Ecology</i> , 2018, 27, 2138-2151.	3.9	62
24	Aphid-encoded variability in susceptibility to a parasitoid. <i>BMC Evolutionary Biology</i> , 2014, 14, 127.	3.2	59
25	<i>Cephalotococcus</i> gen. nov., a new genus of <i>Verrucomicrobia</i> ™ containing two novel species isolated from <i>Cephalotes</i> ant guts. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 3034-3040.	1.7	48
26	Introduction: The host-associated microbiome: Pattern, process and function. <i>Molecular Ecology</i> , 2018, 27, 1749-1765.	3.9	46
27	Nature's microbiome: introduction. <i>Molecular Ecology</i> , 2014, 23, 1225-1237.	3.9	36
28	By their own devices: invasive Argentine ants have shifted diet without clear aid from symbiotic microbes. <i>Molecular Ecology</i> , 2017, 26, 1608-1630.	3.9	36
29	Indoor-Biofilter Growth and Exposure to Airborne Chemicals Drive Similar Changes in Plant Root Bacterial Communities. <i>Applied and Environmental Microbiology</i> , 2014, 80, 4805-4813.	3.1	28
30	Does getting defensive get you anywhere? Seasonal balancing selection, temperature, and parasitoids shape real-world, protective endosymbiont dynamics in the pea aphid. <i>Molecular Ecology</i> , 2021, 30, 2449-2472.	3.9	27
31	Genome Evolution of Bartonellaceae Symbionts of Ants at the Opposite Ends of the Trophic Scale. <i>Genome Biology and Evolution</i> , 2018, 10, 1687-1704.	2.5	26
32	Band-aids for <i>Buchnera</i> and B vitamins for all. <i>Molecular Ecology</i> , 2017, 26, 2199-2203.	3.9	23
33	Cultivation-assisted genome of <i>Candidatus Fukatsua symbiotica</i> ; the enigmatic <i>X</i> -type™ symbiont of aphids. <i>Genome Biology and Evolution</i> , 2019, 11, 3510-3522.	2.5	23
34	Symbiotic solutions to nitrogen limitation and amino acid imbalance in insect diets. <i>Advances in Insect Physiology</i> , 2020, , 161-205.	2.7	19
35	Sharing and reporting benefits from biodiversity research. <i>Molecular Ecology</i> , 2021, 30, 1103-1107.	3.9	19
36	Establishing a relationship between bacteria in the human gut and Complex Regional Pain Syndrome. <i>Brain, Behavior, and Immunity</i> , 2013, 29, 62-69.	4.1	18

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37	Localization of Bacterial Communities within Gut Compartments across <i>Cephalotes</i> Turtle Ants. Applied and Environmental Microbiology, 2021, 87, .	3.1	14
38	Frequent Drivers, Occasional Passengers: Signals of Symbiont-Driven Seasonal Adaptation and Hitchhiking in the Pea Aphid, <i>Acyrtosiphon pisum</i> . Insects, 2021, 12, 805.	2.2	10
39	Turtle ants harbor metabolically versatile microbiomes with conserved functions across development and phylogeny. FEMS Microbiology Ecology, 2022, 98, .	2.7	3
40	Mechanisms underlying microbial symbiosis. Advances in Insect Physiology, 2020, , 1-25.	2.7	2
41	Uncovering Active Bacterial Symbionts in Three Species of Pollen-feeding Beetles (Nitidulidae: Tj ETQq1 1 0.784314 rgBT / Overlock 10	2.8	0