

Byron J. Adams

List of Publications by Year in descending order

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117
papers

6,743
citations

71061

41
h-index

66879

78
g-index

118
all docs

118
docs citations

118
times ranked

8303
citing authors

#	ARTICLE	IF	CITATIONS
1	Response of Antarctic soil fauna to climate-driven changes since the Last Glacial Maximum. <i>Global Change Biology</i> , 2022, 28, 644-653.	4.2	5
2	Antarctic Water Tracks: Microbial Community Responses to Variation in Soil Moisture, pH, and Salinity. <i>Frontiers in Microbiology</i> , 2021, 12, 616730.	1.5	11
3	Geochemical zones and environmental gradients for soils from the central Transantarctic Mountains, Antarctica. <i>Biogeosciences</i> , 2021, 18, 1629-1644.	1.3	8
4	Connectivity: insights from the U.S. Long Term Ecological Research Network. <i>Ecosphere</i> , 2021, 12, e03432.	1.0	4
5	Exploring the Boundaries of Microbial Habitability in Soil. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2020JG006052.	1.3	18
6	Phagotrophic Protists and Their Associates: Evidence for Preferential Grazing in an Abiotically Driven Soil Ecosystem. <i>Microorganisms</i> , 2021, 9, 1555.	1.6	6
7	Antarctic ecosystems in transition – life between stresses and opportunities. <i>Biological Reviews</i> , 2021, 96, 798-821.	4.7	53
8	Stable Isotopes of Nitrate, Sulfate, and Carbonate in Soils From the Transantarctic Mountains, Antarctica: A Record of Atmospheric Deposition and Chemical Weathering. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	13
9	Shotgun metagenomics reveal a diverse assemblage of protists in a model Antarctic soil ecosystem. <i>Environmental Microbiology</i> , 2020, 22, 4620-4632.	1.8	13
10	Genetic diversity of soil invertebrates corroborates timing estimates for past collapses of the West Antarctic Ice Sheet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 22293-22302.	3.3	29
11	A global database of soil nematode abundance and functional group composition. <i>Scientific Data</i> , 2020, 7, 103.	2.4	46
12	Geochemistry of aeolian material from the McMurdo Dry Valleys, Antarctica: Insights into Southern Hemisphere dust sources. <i>Earth and Planetary Science Letters</i> , 2020, 547, 116460.	1.8	10
13	First record of native entomopathogenic nematodes from Montana agroecosystems. <i>Journal of Nematology</i> , 2020, 52, 1-11.	0.4	1
14	Three new species of Longior Travassos & Kloss, 1958 (Nematoda: Thelastomatoidea) from Mexico and Colombia. <i>Zootaxa</i> , 2020, 4877, zootaxa.4877.1.5.	0.2	1
15	Soil nematode abundance and functional group composition at a global scale. <i>Nature</i> , 2019, 572, 194-198.	13.7	635
16	Development of an Evolutionary Tree Concept Inventory. <i>Journal of Microbiology and Biology Education</i> , 2019, 20, .	0.5	5
17	Provisional checklist of terrestrial heterotrophic protists from Antarctica. <i>Antarctic Science</i> , 2019, 31, 287-303.	0.5	9
18	Nematodes in a polar desert reveal the relative role of biotic interactions in the coexistence of soil animals. <i>Communications Biology</i> , 2019, 2, 63.	2.0	34

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19	Biotic interactions are an unexpected yet critical control on the complexity of an abiotically driven polar ecosystem. <i>Communications Biology</i> , 2019, 2, 62.	2.0	42
20	The Hydroecology of an Ephemeral Wetland in the McMurdo Dry Valleys, Antarctica. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 3814-3830.	1.3	7
21	Soil biological responses to C, N and P fertilization in a polar desert of Antarctica. <i>Soil Biology and Biochemistry</i> , 2018, 122, 7-18.	4.2	23
22	Stable C and N isotope ratios reveal soil food web structure and identify the nematode <i>Eudorylaimus antarcticus</i> as an omnivoreâ€“predator in Taylor Valley, Antarctica. <i>Polar Biology</i> , 2018, 41, 1013-1018.	0.5	37
23	Observed trends of soil fauna in the Antarctic Dry Valleys: early signs of shifts predicted under climate change. <i>Ecology</i> , 2018, 99, 312-321.	1.5	46
24	Soil Moisture Controls the Thermal Habitat of Active Layer Soils in the McMurdo Dry Valleys, Antarctica. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 46-59.	1.3	22
25	Aeolian Material Transport and Its Role in Landscape Connectivity in the McMurdo Dry Valleys, Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 3323-3337.	1.0	25
26	Morphological and molecular characterization of <i>Coynema poeyi</i> (Coy, GarcÃa & Ãlvarez, 1993) (Oxyuridomorpha: Hystrignathidae) from Antillanax pertyi (Kaup, 1869) (Coleoptera: Passalidae) from Cuba and new locality records for the species. <i>Zootaxa</i> , 2018, 4497, 29.	0.2	0
27	Morphological examination and phylogenetic analysis clarify the taxonomic status of Cuban Longior Travassos & Kloss, 1958 (Nematoda: Thelastomatoidea: Hystrignathidae). <i>Zootaxa</i> , 2018, 4399, 521.	0.2	2
28	When the cure killsâ€“CBD limits biodiversity research. <i>Science</i> , 2018, 360, 1405-1406.	6.0	99
29	Spatial and temporal patterns of microbial mats and associated invertebrates along an Antarctic stream. <i>Polar Biology</i> , 2018, 41, 1911-1921.	0.5	12
30	Stoichiometric Shifts in Soil C:N:P Promote Bacterial Taxa Dominance, Maintain Biodiversity, and Deconstruct Community Assemblages. <i>Frontiers in Microbiology</i> , 2018, 9, 1401.	1.5	56
31	Decadal ecosystem response to an anomalous melt season in a polar desert in Antarctica. <i>Nature Ecology and Evolution</i> , 2017, 1, 1334-1338.	3.4	79
32	Decoupled responses of soil bacteria and their invertebrate consumer to warming, but not freezeâ€“thaw cycles, in the Antarctic Dry Valleys. <i>Ecology Letters</i> , 2017, 20, 1242-1249.	3.0	18
33	Promoting the Multidimensional Character of Scientific Reasoning. <i>Journal of Microbiology and Biology Education</i> , 2017, 18, .	0.5	1
34	Aerobiology Over Antarctica â€“ A New Initiative for Atmospheric Ecology. <i>Frontiers in Microbiology</i> , 2016, 7, 16.	1.5	65
35	High levels of intraspecific genetic divergences revealed for Antarctic springtails: evidence for small-scale isolation during Pleistocene glaciation. <i>Biological Journal of the Linnean Society</i> , 2016, 119, 166-178.	0.7	22
36	The Soil Geochemistry in the Beardmore Glacier Region, Antarctica: Implications for Terrestrial Ecosystem History. <i>Scientific Reports</i> , 2016, 6, 26189.	1.6	21

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55	The ecology of pulse events: insights from an extreme climatic event in a polar desert ecosystem. <i>Ecosphere</i> , 2012, 3, 1-15.	1.0	69
56	Cross-biome metagenomic analyses of soil microbial communities and their functional attributes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 21390-21395.	3.3	1,260
57	Thawing permafrost alters nematode populations and soil habitat characteristics in an Antarctic polar desert ecosystem. <i>Pedobiologia</i> , 2012, 55, 75-81.	0.5	14
58	Antarctic Tardigrada: a first step in understanding molecular operational taxonomic units (MOTUs) and biogeography of cryptic meiofauna. <i>Invertebrate Systematics</i> , 2012, 26, 526.	0.5	38
59	Nematode communities of Byers Peninsula, Livingston Island, maritime Antarctica. <i>Antarctic Science</i> , 2011, 23, 349-357.	0.5	32
60	Phylogenetic and cophylogenetic relationships of entomopathogenic nematodes (<i>Heterorhabditis</i>): Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Phylogenetics and Evolution, 2011, 59, 271-280.	1.2	46
61	Outcrossing and crossbreeding recovers deteriorated traits in laboratory cultured <i>Steinernema carpocapsae</i> nematodes. <i>International Journal for Parasitology</i> , 2011, 41, 801-809.	1.3	22
62	Antarctic nematode communities: observed and predicted responses to climate change. <i>Polar Biology</i> , 2011, 34, 1701-1711.	0.5	46
63	Latitudinal distribution and mitochondrial DNA (COI) variability of <i>Stereotydeus</i> spp. (Acari): Tj ETQq1 1 0.784314 rgBT /Overlock 749-756.	0.5	16
64	The Antarctic Nematode <i>Plectus murrayi</i> : An Emerging Model to Study Multiple Stress Survival. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.emo142-pdb.emo142.	0.2	4
65	Experimentally increased snow accumulation alters soil moisture and animal community structure in a polar desert. <i>Polar Biology</i> , 2010, 33, 897-907.	0.5	39
66	A robust phylogenetic framework for the bacterial genus <i>Photorhabdus</i> and its use in studying the evolution and maintenance of bioluminescence: A case for 16S, <i>gyrB</i> , and <i>glnA</i> . <i>Molecular Phylogenetics and Evolution</i> , 2010, 57, 728-740.	1.2	23
67	Culturing the Antarctic Nematode <i>Plectus murrayi</i> . <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5522-pdb.prot5522.	0.2	8
68	Effect of slow desiccation and freezing on gene transcription and stress survival of an Antarctic nematode. <i>Journal of Experimental Biology</i> , 2010, 213, 1803-1812.	0.8	45
69	Antarctic climate change and the environment. <i>Antarctic Science</i> , 2009, 21, 541-563.	0.5	195
70	Long-term experimental warming reduces soil nematode populations in the McMurdo Dry Valleys, Antarctica. <i>Soil Biology and Biochemistry</i> , 2009, 41, 2052-2060.	4.2	90
71	Transcriptomic analysis of the entomopathogenic nematode <i>Heterorhabditis bacteriophora</i> TTO1. <i>BMC Genomics</i> , 2009, 10, 205.	1.2	20
72	Transcriptional profiling of trait deterioration in the insect pathogenic nematode <i>Heterorhabditis bacteriophora</i> . <i>BMC Genomics</i> , 2009, 10, 609.	1.2	23

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73	Desiccation survival in an Antarctic nematode: molecular analysis using expressed sequenced tags. <i>BMC Genomics</i> , 2009, 10, 69.	1.2	76
74	Characterization of biocontrol traits in the entomopathogenic nematode <i>Heterorhabditis georgiana</i> (Kesha strain), and phylogenetic analysis of the nematode's symbiotic bacteria. <i>Biological Control</i> , 2009, 51, 377-387.	1.4	33
75	Evolution Education in Utah: A State Office of Education's University Partnership Focuses on Why Evolution Matters. <i>Evolution: Education and Outreach</i> , 2009, 2, 349-358.	0.3	4
76	Terrestrial mesofauna in above- and below-ground habitats: Taylor Valley, Antarctica. <i>Polar Biology</i> , 2009, 32, 1549-1558.	0.5	18
77	Environmental DNA sequencing primers for eutardigrades and bdelloid rotifers. <i>BMC Ecology</i> , 2009, 9, 25.	3.0	25
78	Where's the ecology in molecular ecology?. <i>Oikos</i> , 2009, 118, 1601-1609.	1.2	20
79	Phylogenetics and population genetics of entomopathogenic and insect-parasitic nematodes.. , 2009, , 166-192.		2
80	Effects of Human Trampling on Populations of Soil Fauna in the McMurdo Dry Valleys, Antarctica. <i>Conservation Biology</i> , 2008, 22, 1544-1551.	2.4	37
81	Decline in a dominant invertebrate species contributes to altered carbon cycling in a low-diversity soil ecosystem. <i>Global Change Biology</i> , 2008, 14, 1734-1744.	4.2	60
82	Comparative phylogeography of codistributed species of Chilean <i>Liolaemus</i> (Squamata: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 382	2.0	69
83	EXPRESSED SEQUENCE TAG ANALYSIS OF GENE REPRESENTATION IN INSECT PARASITIC NEMATODE HETERORHABDITIS BACTERIOPHORA. <i>Journal of Parasitology</i> , 2007, 93, 1343-1349.	0.3	17
84	The southernmost worm, <i>Scottinema lindsayae</i> (Nematoda): diversity, dispersal and ecological stability. <i>Polar Biology</i> , 2007, 30, 809-815.	0.5	46
85	Identification of <i>Pratylenchus thornei</i> , the cereal and legume root-lesion nematode, based on SCAR-PCR and satellite DNA. <i>European Journal of Plant Pathology</i> , 2007, 118, 115-125.	0.8	33
86	Unique Similarity of Faunal Communities across Aquatic's Terrestrial Interfaces in a Polar Desert Ecosystem. <i>Ecosystems</i> , 2007, 10, 523-535.	1.6	29
87	Reprint of "Biodiversity and systematics of nematode-bacterium entomopathogens" [Biol. Control 37 (2006) 32-49]. <i>Biological Control</i> , 2006, 38, 4-21.	1.4	54
88	Biodiversity and systematics of nematode-bacterium entomopathogens. <i>Biological Control</i> , 2006, 37, 32-49.	1.4	113
89	Phylogeny of Cephalobina (Nematoda): Molecular evidence for recurrent evolution of probolae and incongruence with traditional classifications. <i>Molecular Phylogenetics and Evolution</i> , 2006, 40, 696-711.	1.2	84
90	Wind dispersal of soil invertebrates in the McMurdo Dry Valleys, Antarctica. <i>Polar Biology</i> , 2006, 29, 346-352.	0.5	134

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91	A synthesis of soil biodiversity and ecosystem functioning in Victoria Land, Antarctica. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3001-3002.	4.2	8
92	Biotic interactions in Antarctic terrestrial ecosystems: Are they a factor?. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3035-3040.	4.2	167
93	Diversity and distribution of Victoria Land biota. <i>Soil Biology and Biochemistry</i> , 2006, 38, 3003-3018.	4.2	286
94	Source of trait deterioration in entomopathogenic nematodes <i>Heterorhabditis bacteriophora</i> and <i>Steinernema carpocapsae</i> during <i>in vivo</i> culture. <i>Nematology</i> , 2006, 8, 397-409.	0.2	47
95	Molecular and morphological consilience in the characterisation and delimitation of five nematode species from Florida belonging to the <i>Xiphinema americanum</i> -group. <i>Nematology</i> , 2006, 8, 521-532.	0.2	30
96	Comparing Phylogenetic Codivergence between Polyomaviruses and Their Hosts. <i>Journal of Virology</i> , 2006, 80, 5663-5669.	1.5	71
97	Co-variation in soil biodiversity and biogeochemistry in northern and southern Victoria Land, Antarctica. <i>Antarctic Science</i> , 2006, 18, 535-548.	0.5	127
98	Phylogeny of <i>Meloidogyne</i> spp. based on 18S rDNA and the intergenic region of mitochondrial DNA sequences. <i>Nematology</i> , 2005, 7, 851-862.	0.2	73
99	<i>Steinernema yirgalemense</i> n. sp. (Rhabditida: Steinernematidae) from Ethiopia. <i>Nematology</i> , 2004, 6, 839-856.	0.2	39
100	<i>Heterorhabditis mexicana</i> n. sp. (Rhabditida: Heterorhabditidae) from Tamaulipas, Mexico, and morphological studies of the bursa of <i>Heterorhabditis</i> spp.. <i>Nematology</i> , 2004, 6, 231-244.	0.2	46
101	EVOLUTION OF PLANT PARASITISM AMONG NEMATODES. <i>Annual Review of Phytopathology</i> , 2004, 42, 83-105.	3.5	85
102	Mitochondrial DNA and RAPD polymorphisms in the haploid mite <i>Brevipalpus phoenicis</i> (Acari: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30). <i>Journal of Parasitology</i> , 2003, 33, 1115-1125.	0.7	27
103	Molecular phylogenetics and diagnosis of soil and clinical isolates of <i>Halicephalobus gingivalis</i> (Nematoda: Cephalobina: Panagrolaimoidea), an opportunistic pathogen of horses. <i>International Journal for Parasitology</i> , 2003, 33, 1115-1125.	1.3	63
104	A Protein Kinase from <i>Colletotrichum trifolii</i> Is Induced by Plant Cutin and Is Required for Appressorium Formation. <i>Molecular Plant-Microbe Interactions</i> , 2003, 16, 411-421.	1.4	59
105	Comparison of plastid 16S rRNA (<i>rrn16</i>) genes from <i>Helicosporidium</i> spp.: evidence supporting the reclassification of <i>Helicosporidia</i> as green algae (Chlorophyta). <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2003, 53, 1719-1723.	0.8	34
106	Survey of Entomopathogenic Nematodes and Fungi Endemic to Pecan Orchards of the Southeastern United States and Their Virulence to the Pecan Weevil (Coleoptera: Curculionidae). <i>Environmental Entomology</i> , 2003, 32, 187-195.	0.7	78
107	Speciation in the Acugutturidae (Nematoda: Aphelenchida). <i>Nematology</i> , 2002, 4, 489-504.	0.2	1
108	Ornithine Decarboxylase Encoded by Chlorella Virus PBCV-1. <i>Virology</i> , 2002, 301, 165-175.	1.1	26

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109	Intron Conservation in the DNA Polymerase Gene Encoded by Chlorella Viruses. <i>Virology</i> , 2001, 285, 313-321.	1.1	22
110	Utility of the Mitochondrial Cytochrome Oxidase II Gene for Resolving Relationships among Black Flies (Diptera: Simuliidae). <i>Molecular Phylogenetics and Evolution</i> , 2000, 16, 286-295.	1.2	26
111	Characterization of a β -1,3-Glucanase Encoded by Chlorella Virus PBCV-1. <i>Virology</i> , 2000, 276, 27-36.	1.1	60
112	Intron Conservation in a UV-Specific DNA Repair Gene Encoded by Chlorella Viruses. <i>Journal of Molecular Evolution</i> , 2000, 50, 82-92.	0.8	21
113	MOLECULAR AND MORPHOMETRIC EVIDENCE FOR SEPARATE SPECIES OF UNCINARIA (NEMATODA): Tj ETQq1 1 0.784314 rgBT / Over SUPPLANTS VERIFICATION. <i>Journal of Parasitology</i> , 2000, 86, 1099-1106.	0.3	75
114	Characterization of Two Chitinase Genes and One Chitosanase Gene Encoded by Chlorella Virus PBCV-1. <i>Virology</i> , 1999, 263, 376-387.	1.1	71
115	Novel application of PhastSystem polyacrylamide gel electrophoresis using restriction fragment length polymorphism internal transcribed spacer patterns of individuals for molecular identification of entomopathogenic nematodes. <i>Electrophoresis</i> , 1999, 20, 1266-1273.	1.3	9
116	Molecular Cloning, Sequencing, and Phylogenetic Relationships of a New Potyvirus: Sugarcane Streak Mosaic Virus, and a Reevaluation of the Classification of the Potyviridae. <i>Molecular Phylogenetics and Evolution</i> , 1998, 10, 323-332.	1.2	79
117	Susceptibility of House Fly (Diptera: Muscidae) Larvae to Entomopathogenic Nematodes (Rhabditida): Tj ETQq1 1 0.784314 rgBT / Over	0.7	21