

David C Coleman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7367439/publications.pdf>

Version: 2024-02-01

104
papers

9,862
citations

57758

44
h-index

38395

95
g-index

106
all docs

106
docs citations

106
times ranked

8412
citing authors

#	ARTICLE	IF	CITATIONS
1	Interactions of Bacteria, Fungi, and their Nematode Grazers: Effects on Nutrient Cycling and Plant Growth. <i>Ecological Monographs</i> , 1985, 55, 119-140.	5.4	950
2	Detritus, trophic dynamics and biodiversity. <i>Ecology Letters</i> , 2004, 7, 584-600.	6.4	948
3	Interactions between Aboveground and Belowground Biodiversity in Terrestrial Ecosystems: Patterns, Mechanisms, and Feedbacks. <i>BioScience</i> , 2000, 50, 1049.	4.9	614
4	Detritus Food Webs in Conventional and No-Tillage Agroecosystems. <i>BioScience</i> , 1986, 36, 374-380.	4.9	555
5	Microbial and Faunal Interactions and Effects on Litter Nitrogen and Decomposition in Agroecosystems. <i>Ecological Monographs</i> , 1992, 62, 569-591.	5.4	526
6	Relative impacts of land-use, management intensity and fertilization upon soil microbial community structure in agricultural systems. <i>Soil Biology and Biochemistry</i> , 2008, 40, 2843-2853.	8.8	450
7	Land-use history has a stronger impact on soil microbial community composition than aboveground vegetation and soil properties. <i>Soil Biology and Biochemistry</i> , 2011, 43, 2184-2193.	8.8	362
8	Habitable Pore Space and Microbial Trophic Interactions. <i>Oikos</i> , 1980, 35, 327.	2.7	317
9	A substrate-induced respiration (SIR) method for measurement of fungal and bacterial biomass on plant residues. <i>Soil Biology and Biochemistry</i> , 1990, 22, 585-594.	8.8	226
10	Is available carbon limiting microbial respiration in the rhizosphere?. <i>Soil Biology and Biochemistry</i> , 1996, 28, 1283-1288.	8.8	222
11	Molecular and Culture-Based Analyses of Prokaryotic Communities from an Agricultural Soil and the Burrows and Casts of the Earthworm <i>Lumbricus rubellus</i> . <i>Applied and Environmental Microbiology</i> , 2002, 68, 1265-1279.	3.1	206
12	Linking species richness, biodiversity and ecosystem function in soil systems. <i>Pedobiologia</i> , 2005, 49, 479-497.	1.2	170
13	Biological indices of soil quality: an ecosystem case study of their use. <i>Forest Ecology and Management</i> , 2000, 138, 357-368.	3.2	169
14	From peds to paradoxes: Linkages between soil biota and their influences on ecological processes. <i>Soil Biology and Biochemistry</i> , 2008, 40, 271-289.	8.8	165
15	SOIL CARBON DIFFERENCES AMONG FOREST, AGRICULTURE, AND SECONDARY VEGETATION IN LOWER MONTANE ECUADOR. , 2000, 10, 497-505.		153
16	In situ measurement of root respiration and soluble C concentrations in the rhizosphere. <i>Soil Biology and Biochemistry</i> , 1993, 25, 1189-1196.	8.8	147
17	Microbial communities, activity and biomass. <i>Agriculture, Ecosystems and Environment</i> , 1991, 34, 3-33.	5.3	145
18	Identification of uncultured bacteria tightly associated with the intestine of the earthworm <i>Lumbricus rubellus</i> (Lumbricidae; Oligochaeta). <i>Soil Biology and Biochemistry</i> , 2003, 35, 1547-1555.	8.8	144

#	ARTICLE	IF	CITATIONS
19	Effect of living roots on soil organic matter decomposition. <i>Soil Biology and Biochemistry</i> , 1990, 22, 781-787.	8.8	140
20	Soil Aggregates and Associated Organic Matter under Conventional Tillage, No-Tillage, and Forest Succession after Three Decades. <i>PLoS ONE</i> , 2014, 9, e84988.	2.5	123
21	Relationships between fungal and bacterial substrate-induced respiration, biomass and plant residue decomposition. <i>Soil Biology and Biochemistry</i> , 1991, 23, 947-954.	8.8	116
22	Differences in the composition and diversity of bacterial communities from agricultural and forest soils. <i>Soil Biology and Biochemistry</i> , 2008, 40, 1294-1305.	8.8	105
23	Effect of Pasture Trees on Soil Nitrogen and Organic Matter: Implications for Tropical Montane Forest Restoration. <i>Restoration Ecology</i> , 1998, 6, 262-270.	2.9	102
24	<i>Solirubrobacter pauli</i> gen. nov., sp. nov., a mesophilic bacterium within the Rubrobacteridae related to common soil clones. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2003, 53, 485-490.	1.7	92
25	SPATIOTEMPORAL DISTRIBUTIONS OF BACTERIVOROUS NEMATODES AND SOIL RESOURCES IN A RESTORED RIPARIAN WETLAND. <i>Ecology</i> , 1998, 79, 2721-2734.	3.2	90
26	Responses of trophic groups of soil nematodes to residue application under conventional tillage and no-till regimes. <i>Soil Biology and Biochemistry</i> , 2000, 32, 1731-1741.	8.8	90
27	Relative effects of macroinvertebrates and habitat on the chemistry of litter during decomposition. <i>Pedobiologia</i> , 2003, 47, 101-115.	1.2	88
28	Development of soil microbial communities during tallgrass prairie restoration. <i>Soil Biology and Biochemistry</i> , 2010, 42, 302-312.	8.8	85
29	Slow recovery of soil biodiversity in sandy loam soils of Georgia after 25 years of no-tillage management. <i>Agriculture, Ecosystems and Environment</i> , 2006, 114, 323-334.	5.3	79
30	A simple method for measuring co2 in a continuous air-flow system: Modifications to the substrate-induced respiration technique. <i>Soil Biology and Biochemistry</i> , 1989, 21, 385-388.	8.8	77
31	Microcosms and soil Ecology: Critical Linkages between Fields Studies and Modelling Food Webs. <i>Ecology</i> , 1996, 77, 694-705.	3.2	77
32	Soil Fauna. , 2015, , 111-149.		73
33	Compartmental Analysis of "Total Soil Respiration": An Exploratory Study. <i>Oikos</i> , 1973, 24, 361.	2.7	72
34	Soil Carbon Balance in a Successional Grassland. <i>Oikos</i> , 1973, 24, 195.	2.7	65
35	Urbanization alters the functional composition, but not taxonomic diversity, of the soil nematode community. <i>Applied Soil Ecology</i> , 2007, 35, 329-339.	4.3	64
36	Priorities for research in soil ecology. <i>Pedobiologia</i> , 2017, 63, 1-7.	1.2	64

#	ARTICLE	IF	CITATIONS
37	Measuring root turnover using the minirhizotron technique. <i>Agriculture, Ecosystems and Environment</i> , 1991, 34, 261-267.	5.3	63
38	Decomposition of chestnut oak (<i>Quercus prinus</i>) leaves and nitrogen mineralization in an urban environment. <i>Biology and Fertility of Soils</i> , 2005, 41, 343-349.	4.3	62
39	Changes in the Soil Bacterial Communities in a Cedar Plantation Invaded by Moso Bamboo. <i>Microbial Ecology</i> , 2014, 67, 421-429.	2.8	62
40	Microbial community response to transition from conventional to conservation tillage in cotton fields. <i>Applied Soil Ecology</i> , 2008, 40, 518-528.	4.3	59
41	Investigating Short-Term Carbon Flows in the Rhizospheres of Different Plant Species, Using Isotopic Trapping. <i>Agronomy Journal</i> , 1994, 86, 782-788.	1.8	58
42	On spatiotemporal patchiness and the coexistence of five species of <i>Chronogaster</i> (Nematoda). <i>Journal of Nematology</i> , 2000, 32, 50-54.	2.0	58
43	Riparian soil response to surface nitrogen input: temporal changes in denitrification, labile and microbial C and N pools, and bacterial and fungal respiration. <i>Soil Biology and Biochemistry</i> , 1999, 31, 1609-1624.	8.8	57
44	Spatiotemporal Distributions of Bacterivorous Nematodes and Soil Resources in a Restored Riparian Wetland. <i>Ecology</i> , 1998, 79, 2721.	3.2	55
45	The importance of the fauna in agricultural soils: Research approaches and perspectives. <i>Agriculture, Ecosystems and Environment</i> , 1989, 27, 47-55.	5.3	54
46	Can nitrogen budgets explain differences in soil nitrogen mineralization rates of forest stands along an elevation gradient?. <i>Forest Ecology and Management</i> , 2003, 176, 563-574.	3.2	49
47	Phosphorus relations of roots and mycorrhizas of <i>Rhododendron maximum</i> L. in the southern Appalachians, North Carolina. <i>Mycorrhiza</i> , 1992, 1, 175-184.	2.8	44
48	Soil foodwebs in agroecosystems: impacts of herbivory and tillage management. <i>European Journal of Soil Biology</i> , 2002, 38, 21-28.	3.2	44
49	Bacterial Community Diversity in Undisturbed Perhumid Montane Forest Soils in Taiwan. <i>Microbial Ecology</i> , 2010, 59, 369-378.	2.8	43
50	Winter decomposition of transgenic cotton residue in conventional-till and no-till systems. <i>Applied Soil Ecology</i> , 2004, 27, 135-142.	4.3	42
51	Dynamics of soil protozoa using a direct count method. <i>Biology and Fertility of Soils</i> , 2005, 42, 168-171.	4.3	42
52	Fine root dynamics along an elevational gradient in the southern Appalachian Mountains, USA. <i>Forest Ecology and Management</i> , 2004, 187, 19-33.	3.2	41
53	Highlights and perspectives of soil biology and ecology research in China. <i>Soil Biology and Biochemistry</i> , 2009, 41, 868-876.	8.8	40
54	Quantification of Fungus-Small Arthropod Food Chains in the Soil. <i>Oikos</i> , 1970, 21, 134.	2.7	39

#	ARTICLE	IF	CITATIONS
55	Trophic interactions in soils as they affect energy and nutrient dynamics. II. Physiological responses of selected rhizosphere bacteria. <i>Microbial Ecology</i> , 1977, 4, 351-359.	2.8	38
56	The Recolonization of Gamma-Irradiated Soil by Small Arthropods. A Preliminary Study. <i>Oikos</i> , 1966, 17, 62.	2.7	37
57	Hillslope Nutrient Dynamics Following Upland Riparian Vegetation Disturbance. <i>Ecosystems</i> , 2003, 6, 154-167.	3.4	35
58	Changes in nestedness in experimental communities of soil fauna undergoing extinction. <i>Pedobiologia</i> , 2007, 50, 497-503.	1.2	35
59	Change in Bacterial Community Structure in Response to Disturbance of Natural Hardwood and Secondary Coniferous Forest Soils in Central Taiwan. <i>Microbial Ecology</i> , 2011, 61, 429-437.	2.8	35
60	Impact of the rhizosphere on soil microarthropods in agroecosystems on the Georgia piedmont. <i>Applied Soil Ecology</i> , 2001, 16, 141-148.	4.3	34
61	Faunal Indicators of Soil Quality. <i>SSSA Special Publication Series</i> , 0, , 91-106.	0.2	34
62	Population Development and Interactions Between Two Species of Bacteriophagic Nematodes. <i>Nematologica</i> , 1981, 27, 6-19.	0.2	33
63	Changes of soil bacterial communities in bamboo plantations at different elevations. <i>FEMS Microbiology Ecology</i> , 2015, 91, .	2.7	33
64	Soil carbon dynamics of conventional tillage and no-till agroecosystems at Georgia Piedmont "HSB-C models. <i>Ecological Modelling</i> , 2000, 131, 229-248.	2.5	31
65	Differential effects of understory and overstory gaps on tree regeneration ¹ . <i>Journal of the Torrey Botanical Society</i> , 2008, 135, 1-11.	0.3	31
66	14C distribution in soil organisms and respiration after the decomposition of crop residue in conventional tillage and no-till agroecosystems at Georgia Piedmont. <i>Soil and Tillage Research</i> , 2000, 57, 31-41.	5.6	30
67	Cedar and bamboo plantations alter structure and diversity of the soil bacterial community from a hardwood forest in subtropical mountain. <i>Applied Soil Ecology</i> , 2017, 112, 28-33.	4.3	29
68	Soil bacterial communities in native and regenerated perhumid montane forests. <i>Applied Soil Ecology</i> , 2011, 47, 111-118.	4.3	27
69	Ecosystem Health: An Overview. <i>SSSA Special Publication Series</i> , 2015, , 1-20.	0.2	27
70	Interactions of organisms at root/soil and litter/ soil interfaces in terrestrial ecosystems. <i>Agriculture, Ecosystems and Environment</i> , 1988, 24, 117-134.	5.3	25
71	Seasonal dynamics of nematode and microbial biomass in soils of riparian-zone forests of the Southern Appalachians. <i>Soil Biology and Biochemistry</i> , 1995, 27, 79-84.	8.8	24
72	Effect of genetically-altered <i>Pseudomonas solanacearum</i> on predatory protozoa. <i>Soil Biology and Biochemistry</i> , 1990, 22, 115-117.	8.8	23

#	ARTICLE	IF	CITATIONS
73	Riparian soil response to surface nitrogen input: the indicator potential of free-living soil nematode populations. <i>Soil Biology and Biochemistry</i> , 1999, 31, 1625-1638.	8.8	23
74	Patterns of Survival and Extinction of Nematodes in Isolated Soil. <i>Oikos</i> , 1993, 67, 563.	2.7	22
75	Comparison of soil bacterial communities in a natural hardwood forest and coniferous plantations in perhumid subtropical low mountains. , 2014, 55, 50.		20
76	Short-term impacts of aboveground herbivory (grasshopper) on the abundance and 14C activity of soil nematodes in conventional tillage and no-till agroecosystems. <i>Soil Biology and Biochemistry</i> , 2001, 33, 1253-1258.	8.8	19
77	Comparison of soil bacterial communities between coastal and inland forests in a subtropical area. <i>Applied Soil Ecology</i> , 2012, 60, 49-55.	4.3	18
78	Composition of bacterial communities in sand dunes of subtropical coastal forests. <i>Biology and Fertility of Soils</i> , 2014, 50, 809-814.	4.3	18
79	Effect of Bacteria and Amoebae on Rhizosphere Phosphatase Activity. <i>Applied and Environmental Microbiology</i> , 1979, 37, 943-946.	3.1	18
80	Terrestrial nutrient cycles. <i>Biogeochemistry</i> , 1988, 5, 3-5.	3.5	16
81	The impacts of acid deposition on soil biota and C cycling. <i>Environmental and Experimental Botany</i> , 1983, 23, 225-233.	4.2	15
82	Evaluation of the effectiveness of riparian zone restoration in the southern Appalachians by assessing soil microbial populations. <i>Applied Soil Ecology</i> , 2004, 26, 63-68.	4.3	15
83	Nitrogen Mineralization by <i>Acanthamoeba polyphaga</i> in Grazed <i>Pseudomonas paucimobilis</i> Populations. <i>Applied and Environmental Microbiology</i> , 1981, 42, 667-671.	3.1	15
84	Soil respiration from four aggrading forested watersheds measured over a quarter century. <i>Forest Ecology and Management</i> , 2002, 157, 247-253.	3.2	14
85	THE EFFECTS OF DISTURBANCE EVENTS ON LABILE PHOSPHORUS FRACTIONS AND TOTAL ORGANIC PHOSPHORUS IN THE SOUTHERN APPALACHIANS. <i>Soil Science</i> , 1999, 164, 391-402.	0.9	13
86	Nitrogen dynamics in decomposing chestnut oak (<i>Quercus prinus</i> L.) in mesic temperate and tropical forest. <i>Applied Soil Ecology</i> , 1999, 13, 169-175.	4.3	12
87	ASSESSMENT OF SOIL AND PLANT CARBON LEVELS IN TWO ECOSYSTEMS (WOODY BAMBOO AND PASTURE) IN MONTANE ECUADOR. <i>Soil Science</i> , 2007, 172, 459-468.	0.9	12
88	Effects of Reforestation on the Structure and Diversity of Bacterial Communities in Subtropical Low Mountain Forest Soils. <i>Frontiers in Microbiology</i> , 2018, 9, 1968.	3.5	10
89	Bacterial community of very wet and acidic subalpine forest and fire-induced grassland soils. <i>Plant and Soil</i> , 2010, 332, 417-427.	3.7	9
90	Soil Biota, Soil Systems, and Processes. , 2013, , 580-589.		9

