

# Adrien C Finzi

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

14,155  
citations

27035

58  
h-index

42259

96  
g-index

118  
all docs

118  
docs citations

118  
times ranked

13504  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of microplastic impacts on seagrasses, epiphytes, and associated sediment communities. <i>Environmental Pollution</i> , 2022, 303, 119108.	3.7	21
2	Ectomycorrhizal fungi are associated with reduced nitrogen cycling rates in temperate forest soils without corresponding trends in bacterial functional groups. <i>Oecologia</i> , 2021, 196, 863-875.	0.9	9
3	An Integrative Model for Soil Biogeochemistry and Methane Processes: I. Model Structure and Sensitivity Analysis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, e2019JG005468.	1.3	11
4	Identifying Data Needed to Reduce Parameter Uncertainty in a Coupled Microbial Soil C and N Decomposition Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021, 126, .	1.3	0
5	Carbon budget of the Harvard Forest Long-Term Ecological Research site: pattern, process, and response to global change. <i>Ecological Monographs</i> , 2020, 90, e01423.	2.4	67
6	Microbial carbon use efficiency predicted from genome-scale metabolic models. <i>Nature Communications</i> , 2019, 10, 3568.	5.8	87
7	Roots Mediate the Effects of Snowpack Decline on Soil Bacteria, Fungi, and Nitrogen Cycling in a Northern Hardwood Forest. <i>Frontiers in Microbiology</i> , 2019, 10, 926.	1.5	9
8	The Millennial model: in search of measurable pools and transformations for modeling soil carbon in the new century. <i>Biogeochemistry</i> , 2018, 137, 51-71.	1.7	139
9	Winter soil freeze-thaw cycles lead to reductions in soil microbial biomass and activity not compensated for by soil warming. <i>Soil Biology and Biochemistry</i> , 2018, 116, 39-47.	4.2	98
10	Ecosystem responses to elevated $\text{CO}_2$ governed by plant-soil interactions and the cost of nitrogen acquisition. <i>New Phytologist</i> , 2018, 217, 507-522.	3.5	139
11	Changes in photosynthesis and soil moisture drive the seasonal soil respiration-temperature hysteresis relationship. <i>Agricultural and Forest Meteorology</i> , 2018, 259, 184-195.	1.9	65
12	Root exudates increase N availability by stimulating microbial turnover of fast-cycling N pools. <i>Soil Biology and Biochemistry</i> , 2017, 106, 119-128.	4.2	222
13	A parsimonious modular approach to building a mechanistic belowground carbon and nitrogen model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2418-2434.	1.3	36
14	Deep peat warming increases surface methane and carbon dioxide emissions in a black spruce-dominated ombrotrophic bog. <i>Global Change Biology</i> , 2017, 23, 5398-5411.	4.2	52
15	Terrestrial nitrogen cycling in Earth system models revisited. <i>New Phytologist</i> , 2016, 210, 1165-1168.	3.5	35
16	Contrasting effects of winter snowpack and soil frost on growing season microbial biomass and enzyme activity in two mixed-hardwood forests. <i>Biogeochemistry</i> , 2016, 128, 141-154.	1.7	49
17	Reduced snow cover alters root-microbe interactions and decreases nitrification rates in a northern hardwood forest. <i>Ecology</i> , 2016, 97, 3359-3368.	1.5	34
18	Belowground carbon flux links biogeochemical cycles and resource-use efficiency at the global scale. <i>Ecology Letters</i> , 2016, 19, 1419-1428.	3.0	95

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19	Seasonality and partitioning of root allocation to rhizosphere soils in a midlatitude forest. <i>Ecosphere</i> , 2016, 7, e01547.	1.0	33
20	Inverse analysis of coupled carbon–nitrogen cycles against multiple datasets at ambient and elevated CO <sub>2</sub> . <i>Journal of Plant Ecology</i> , 2016, 9, 285-295.	1.2	28
21	Multi-criteria evaluation of the suitability of growth functions for modeling remotely sensed phenology. <i>Ecological Modelling</i> , 2016, 323, 123-132.	1.2	16
22	Are above- and below-ground phenology in sync?. <i>New Phytologist</i> , 2015, 205, 1054-1061.	3.5	162
23	Rhizosphere processes are quantitatively important components of terrestrial carbon and nutrient cycles. <i>Global Change Biology</i> , 2015, 21, 2082-2094.	4.2	424
24	Evaluation of 11 terrestrial carbon–nitrogen cycle models against observations from two temperate F <sub>2</sub> and A <sub>2</sub> CO <sub>2</sub> enrichment studies. <i>New Phytologist</i> , 2014, 202, 803-822.	3.5	378
25	Fungal functioning in a pine forest: evidence from a <sup>15</sup> N-labeled global change experiment. <i>New Phytologist</i> , 2014, 201, 1431-1439.	3.5	37
26	Mycorrhiza-mediated competition between plants and decomposers drives soil carbon storage. <i>Nature</i> , 2014, 505, 543-545.	13.7	743
27	Chronic nitrogen additions suppress decomposition and sequester soil carbon in temperate forests. <i>Biogeochemistry</i> , 2014, 121, 305-316.	1.7	302
28	A big-microsite framework for soil carbon modeling. <i>Global Change Biology</i> , 2014, 20, 3610-3620.	4.2	60
29	Correction factors for dissolved organic carbon extracted from soil, measured using the Mn(III)-pyrophosphate colorimetric method adapted for a microplate reader. <i>Soil Biology and Biochemistry</i> , 2014, 78, 284-287.	4.2	20
30	Fungal carbon sources in a pine forest: evidence from a <sup>13</sup> C-labeled global change experiment. <i>Fungal Ecology</i> , 2014, 10, 91-100.	0.7	17
31	Net primary production and soil respiration in New England hemlock forests affected by the hemlock woolly adelgid. <i>Ecosphere</i> , 2014, 5, 1-16.	1.0	24
32	Does elevated CO <sub>2</sub> alter silica uptake in trees?. <i>Frontiers in Plant Science</i> , 2014, 5, 793.	1.7	20
33	Field and remotely sensed measures of soil and vegetation carbon and nitrogen across an urbanization gradient in the Boston metropolitan area. <i>Urban Ecosystems</i> , 2013, 16, 593-616.	1.1	32
34	Intentional versus unintentional nitrogen use in the United States: trends, efficiency and implications. <i>Biogeochemistry</i> , 2013, 114, 11-23.	1.7	72
35	Reprint of "Plant regulation of microbial enzyme production in situ". <i>Soil Biology and Biochemistry</i> , 2013, 56, 49-52.	4.2	5
36	Stoichiometry constrains microbial response to root exudation- insights from a model and a field experiment in a temperate forest. <i>Biogeosciences</i> , 2013, 10, 821-838.	1.3	197

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37	Root carbon inputs to the rhizosphere stimulate extracellular enzyme activity and increase nitrogen availability in temperate forest soils. <i>Biogeochemistry</i> , 2013, 115, 65-76.	1.7	176
38	Seasonal plasticity in the temperature sensitivity of microbial activity in three temperate forest soils. <i>Ecosphere</i> , 2013, 4, 1-21.	1.0	24
39	Soil respiration in a northeastern US temperate forest: a 22-yr synthesis. <i>Ecosphere</i> , 2013, 4, 1-28.	1.0	83
40	Hemlock loss due to the hemlock woolly adelgid does not affect ecosystem C storage but alters its distribution. <i>Ecosphere</i> , 2013, 4, 1-16.	1.0	19
41	Seasonal variation in the temperature sensitivity of proteolytic enzyme activity in temperate forest soils. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	46
42	Trenching reduces soil heterotrophic activity in a loblolly pine ( <i>Pinus taeda</i> ) forest exposed to elevated atmospheric [CO <sub>2</sub> ] and N fertilization. <i>Agricultural and Forest Meteorology</i> , 2012, 165, 43-52.	1.9	27
43	Inconsistent definitions of "urban" result in different conclusions about the size of urban carbon and nitrogen stocks. <i>Ecological Applications</i> , 2012, 22, 1015-1035.	1.8	89
44	Depleted soil carbon and nitrogen pools beneath impervious surfaces. <i>Environmental Pollution</i> , 2012, 164, 248-251.	3.7	101
45	The effect of experimental warming and precipitation change on proteolytic enzyme activity: positive feedbacks to nitrogen availability are not universal. <i>Global Change Biology</i> , 2012, 18, 2617-2625.	4.2	80
46	Roots and fungi accelerate carbon and nitrogen cycling in forests exposed to elevated CO <sub>2</sub> . <i>Ecology Letters</i> , 2012, 15, 1042-1049.	3.0	251
47	Research frontiers in the analysis of coupled biogeochemical cycles. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 74-80.	1.9	42
48	Introduction to coupled biogeochemical cycles. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 5-8.	1.9	111
49	Enhanced root exudation induces microbial feedbacks to N cycling in a pine forest under long-term CO <sub>2</sub> fumigation. <i>Ecology Letters</i> , 2011, 14, 187-194.	3.0	618
50	Increases in the flux of carbon belowground stimulate nitrogen uptake and sustain the long-term enhancement of forest productivity under elevated CO <sub>2</sub> . <i>Ecology Letters</i> , 2011, 14, 349-357.	3.0	374
51	Sources of increased N uptake in forest trees growing under elevated CO <sub>2</sub> : results of a large-scale 15N study. <i>Global Change Biology</i> , 2011, 17, 3338-3350.	4.2	40
52	Carbon and nitrogen dynamics during forest stand development: a global synthesis. <i>New Phytologist</i> , 2011, 190, 977-989.	3.5	221
53	Plant regulation of microbial enzyme production in situ. <i>Soil Biology and Biochemistry</i> , 2011, 43, 2457-2460.	4.2	21
54	Improving biogeochemical knowledge through technological innovation. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 37-43.	1.9	4

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55	Responses and feedbacks of coupled biogeochemical cycles to climate change: examples from terrestrial ecosystems. <i>Frontiers in Ecology and the Environment</i> , 2011, 9, 61-67.	1.9	214
56	Substrate supply, fine roots, and temperature control proteolytic enzyme activity in temperate forest soils. <i>Ecology</i> , 2011, 92, 892-902.	1.5	86
57	Increasing plant use of organic nitrogen with elevation is reflected in nitrogen uptake rates and ecosystem $\delta^{15}\text{N}$ . <i>Ecology</i> , 2011, 92, 883-891.	1.5	90
58	Reassessment of plant carbon dynamics at the Duke free-air $\text{CO}_2$ enrichment site: interactions of atmospheric $[\text{CO}_2]$ with nitrogen and water availability over stand development. <i>New Phytologist</i> , 2010, 185, 514-528.	3.5	242
59	Greater seed production in elevated $\text{CO}_2$ is not accompanied by reduced seed quality in <i>Pinus taeda</i> L.. <i>Global Change Biology</i> , 2010, 16, 1046-1056.	4.2	50
60	Intact amino acid uptake by northern hardwood and conifer trees. <i>Oecologia</i> , 2009, 160, 129-138.	0.9	69
61	Decades of atmospheric deposition have not resulted in widespread phosphorus limitation or saturation of tree demand for nitrogen in southern New England. <i>Biogeochemistry</i> , 2009, 92, 217-229.	1.7	72
62	Bottom-up rather than top-down processes regulate the abundance and activity of nitrogen fixing plants in two Connecticut old-field ecosystems. <i>Biogeochemistry</i> , 2009, 95, 309-321.	1.7	12
63	Forest fine root production and nitrogen use under elevated $\text{CO}_2$ : contrasting responses in evergreen and deciduous trees explained by a common principle. <i>Global Change Biology</i> , 2009, 15, 132-144.	4.2	72
64	The invasive species <i>Alliaria petiolata</i> (garlic mustard) increases soil nutrient availability in northern hardwood-conifer forests. <i>Oecologia</i> , 2008, 157, 459-471.	0.9	102
65	Increased mercury in forest soils under elevated carbon dioxide. <i>Oecologia</i> , 2008, 158, 343-354.	0.9	16
66	Differential effects of sugar maple, red oak, and hemlock tannins on carbon and nitrogen cycling in temperate forest soils. <i>Oecologia</i> , 2008, 155, 583-592.	0.9	55
67	Fine root dynamics in a loblolly pine forest are influenced by free-air $\text{CO}_2$ enrichment: a six-year minirhizotron study. <i>Global Change Biology</i> , 2008, 14, 588-602.	4.2	132
68	Soil carbon sequestration in a pine forest after 9 years of atmospheric $\text{CO}_2$ enrichment. <i>Global Change Biology</i> , 2008, 14, 2910-2922.	4.2	82
69	Ready or Not, Garlic Mustard Is Moving In: <i>Alliaria petiolata</i> as a Member of Eastern North American Forests. <i>BioScience</i> , 2008, 58, 426-436.	2.2	116
70	Increases in nitrogen uptake rather than nitrogen-use efficiency support higher rates of temperate forest productivity under elevated $\text{CO}_2$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14014-14019.	3.3	353
71	ATMOSPHERIC DEPOSITION MAY AFFECT NORTHERN HARDWOOD FOREST COMPOSITION BY ALTERING SOIL NUTRIENT SUPPLY. <i>Ecological Applications</i> , 2007, 17, 1929-1941.	1.8	36
72	Temporal dynamics and spatial variability in the enhancement of canopy leaf area under elevated atmospheric $\text{CO}_2$ . <i>Global Change Biology</i> , 2007, 13, 2479-2497.	4.2	107

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73	PROGRESSIVE NITROGEN LIMITATION OF ECOSYSTEM PROCESSES UNDER ELEVATED CO <sub>2</sub> IN A WARM-TEMPERATE FOREST. <i>Ecology</i> , 2006, 87, 15-25.	1.5	210
74	Microbial Community Responses to Atmospheric Carbon Dioxide Enrichment in a Warm-Temperate Forest. <i>Ecosystems</i> , 2006, 9, 215-226.	1.6	95
75	Amino acid cycling in three cold-temperate forests of the northeastern USA. <i>Soil Biology and Biochemistry</i> , 2006, 38, 861-869.	4.2	63
76	Aboveground sink strength in forests controls the allocation of carbon below ground and its [CO <sub>2</sub> ]-induced enhancement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19362-19367.	3.3	109
77	Canopy leaf area constrains [CO <sub>2</sub> ]-induced enhancement of productivity and partitioning among aboveground carbon pools. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 19356-19361.	3.3	94
78	SOIL CARBON SEQUESTRATION AND TURNOVER IN A PINE FOREST AFTER SIX YEARS OF ATMOSPHERIC CO <sub>2</sub> ENRICHMENT. <i>Ecology</i> , 2005, 86, 1835-1847.	1.5	113
79	THE UPTAKE OF AMINO ACIDS BY MICROBES AND TREES IN THREE COLD-TEMPERATE FORESTS. <i>Ecology</i> , 2005, 86, 3345-3353.	1.5	128
80	Forest response to elevated CO <sub>2</sub> is conserved across a broad range of productivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18052-18056.	3.3	880
81	Progressive Nitrogen Limitation of Ecosystem Responses to Rising Atmospheric Carbon Dioxide. <i>BioScience</i> , 2004, 54, 731.	2.2	1,092
82	Canopy N and P dynamics of a southeastern US pine forest under elevated CO <sub>2</sub> . <i>Biogeochemistry</i> , 2004, 69, 363-378.	1.7	22
83	Soil Nitrogen Cycling in a Pine Forest Exposed to 5 Years of Elevated Carbon Dioxide. <i>Ecosystems</i> , 2003, 6, 444-456.	1.6	57
84	Exposure to an enriched CO <sub>2</sub> atmosphere alters carbon assimilation and allocation in a pine forest ecosystem. <i>Global Change Biology</i> , 2003, 9, 1378-1400.	4.2	133
85	Sustainability of terrestrial carbon sequestration: A case study in Duke Forest with inversion approach. <i>Global Biogeochemical Cycles</i> , 2003, 17, .	1.9	191
86	SOIL NITROGEN CYCLING UNDER ELEVATED CO <sub>2</sub> : A SYNTHESIS OF FOREST FACE EXPERIMENTS. , 2003, 13, 1508-1514.		114
87	Forest carbon balance under elevated CO <sub>2</sub> . <i>Oecologia</i> , 2002, 131, 250-260.	0.9	253
88	The nitrogen budget of a pine forest under free air CO <sub>2</sub> enrichment. <i>Oecologia</i> , 2002, 132, 567-578.	0.9	164
89	Species control variation in litter decomposition in a pine forest exposed to elevated CO <sub>2</sub> . <i>Global Change Biology</i> , 2002, 8, 1217-1229.	4.2	58
90	FOREST LITTER PRODUCTION, CHEMISTRY, AND DECOMPOSITION FOLLOWING TWO YEARS OF FREE-AIR CO <sub>2</sub> ENRICHMENT. <i>Ecology</i> , 2001, 82, 470-484.	1.5	62

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91	Primary productivity of planet earth: biological determinants and physical constraints in terrestrial and aquatic habitats. <i>Global Change Biology</i> , 2001, 7, 849-882.	4.2	281
92	Forest Litter Production, Chemistry, and Decomposition Following Two Years of Free-Air CO <sub>2</sub> Enrichment. <i>Ecology</i> , 2001, 82, 470.	1.5	144
93	Sapling growth in response to light and nitrogen availability in a southern New England forest. <i>Forest Ecology and Management</i> , 2000, 131, 153-165.	1.4	130
94	Net Primary Production of a Forest Ecosystem with Experimental CO <sub>2</sub> Enrichment. <i>Science</i> , 1999, 284, 1177-1179.	6.0	460
95	Non-additive effects of litter mixtures on net N mineralization in a southern New England forest. <i>Forest Ecology and Management</i> , 1998, 105, 129-136.	1.4	87
96	CANOPY TREEâ€™SOIL INTERACTIONS WITHIN TEMPERATE FORESTS: SPECIES EFFECTS ON SOIL CARBON AND NITROGEN. , 1998, 8, 440-446.		161
97	CANOPY TREEâ€™SOIL INTERACTIONS WITHIN TEMPERATE FORESTS: SPECIES EFFECTS ON pH AND CATIONS. , 1998, 8, 447-454.		47
98	Canopy Tree-Soil Interactions within Temperate Forests: Species Effects on Soil Carbon and Nitrogen. , 1998, 8, 440.		16
99	Canopy Tree-Soil Interactions within Temperate Forests: Species Effects on pH and Cations. , 1998, 8, 447.		40
100	CANOPY TREEâ€™SOIL INTERACTIONS WITHIN TEMPERATE FORESTS: SPECIES EFFECTS ON SOIL CARBON AND NITROGEN. , 1998, 8, 440.		1
101	Canopy tree-soil interactions within temperate forests: effects of soil elemental composition and texture on species distributions. <i>Canadian Journal of Forest Research</i> , 1997, 27, 1110-1116.	0.8	103
102	Assessing Why Two Introduced Conyza Differ in Their Ability to Invade Mediterranean Old Fields. <i>Ecology</i> , 1996, 77, 791-804.	1.5	115
103	Causes and consequences of resource heterogeneity in forests: interspecific variation in light transmission by canopy trees. <i>Canadian Journal of Forest Research</i> , 1994, 24, 337-349.	0.8	620