

# Timothy R Cavagnaro

## List of Publications by Year in descending order

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Version: 2024-02-01

112  
papers

5,580  
citations

66315

42  
h-index

91828

69  
g-index

114  
all docs

114  
docs citations

114  
times ranked

6403  
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of sorghum grain yield and nutrition: A role for arbuscular mycorrhizal fungi regardless of soil phosphorus availability. <i>Plants People Planet</i> , 2022, 4, 143-156.	1.6	12
2	Development of an organomineral fertiliser formulation that improves tomato growth and sustains arbuscular mycorrhizal colonisation. <i>Science of the Total Environment</i> , 2022, 815, 151977.	3.9	5
3	Arbuscular mycorrhizas increased tomato biomass and nutrition but did not affect local soil P availability or 16S bacterial community in the field. <i>Science of the Total Environment</i> , 2022, 819, 152620.	3.9	5
4	Ensuring planetary survival: the centrality of organic carbon in balancing the multifunctional nature of soils. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 4308-4324.	6.6	52
5	Healthy soils: The backbone of productive, safe and sustainable urban agriculture. <i>Journal of Cleaner Production</i> , 2022, 341, 130808.	4.6	21
6	Physiological and morphological responses of industrial hemp ( <i>Cannabis sativa</i> L.) to water deficit. <i>Industrial Crops and Products</i> , 2022, 187, 115331.	2.5	16
7	Bioavailability of zinc and iron in durum wheat: A trade-off between grain weight and nutrition?. <i>Plants People Planet</i> , 2021, 3, 627-639.	1.6	7
8	Site preparation impacts on soil biotic and abiotic properties, weed control, and native grass establishment. <i>Restoration Ecology</i> , 2021, 29, e13297.	1.4	6
9	A novel $^{13}\text{C}$ pulse-labelling method to quantify the contribution of rhizodeposits to soil respiration in a grassland exposed to drought and nitrogen addition. <i>New Phytologist</i> , 2021, 230, 857-866.	3.5	25
10	Quantifying blue carbon and nitrogen stocks in surface soils of temperate coastal wetlands. <i>Soil Research</i> , 2021, 59, 619-629.	0.6	10
11	Soil organic matter in a stressed world. <i>Soil Research</i> , 2021, 59, i.	0.6	1
12	Frequency Versus Quantity: Phenotypic Response of Two Wheat Varieties to Water and Nitrogen Variability. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 1631-1641.	1.7	1
13	Global data on earthworm abundance, biomass, diversity and corresponding environmental properties. <i>Scientific Data</i> , 2021, 8, 136.	2.4	29
14	Carbon allocation to the rhizosphere is affected by drought and nitrogen addition. <i>Journal of Ecology</i> , 2021, 109, 3699-3709.	1.9	48
15	Nitrogen Fertilisation Increases Specific Root Respiration in Ectomycorrhizal but Not in Arbuscular Mycorrhizal Plants: A Meta-Analysis. <i>Frontiers in Plant Science</i> , 2021, 12, 711720.	1.7	5
16	Reallocation of nitrogen and phosphorus from roots drives regrowth of grasses and sedges after defoliation under deficit irrigation and nitrogen enrichment. <i>Journal of Ecology</i> , 2021, 109, 4071-4080.	1.9	13
17	Mycorrhizal growth and phosphorus responses of tomato differ with source but not application rate of phosphorus fertilisers. <i>Applied Soil Ecology</i> , 2021, 166, 104089.	2.1	8
18	Root and arbuscular mycorrhizal effects on soil nutrient loss are modulated by soil texture. <i>Applied Soil Ecology</i> , 2021, 167, 104097.	2.1	8

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19	Variable water cycles have a greater impact on wheat growth and soil nitrogen response than constant watering. <i>Plant Science</i> , 2020, 290, 110146.	1.7	13
20	Soil Microbial Community Responses After Amendment with Thermally Altered <i>Pinus radiata</i> Needles. <i>Microbial Ecology</i> , 2020, 79, 409-419.	1.4	0
21	A tribute to Sally E. Smith. <i>New Phytologist</i> , 2020, 228, 397-402.	3.5	1
22	The influence of crediting and permanence periods on Australian forest-based carbon offset supply. <i>Land Use Policy</i> , 2020, 97, 104800.	2.5	15
23	The state of the world's urban ecosystems: What can we learn from trees, fungi, and bees?. <i>Plants People Planet</i> , 2020, 2, 482-498.	1.6	23
24	The effect of zinc fertilisation and arbuscular mycorrhizal fungi on grain quality and yield of contrasting barley cultivars. <i>Functional Plant Biology</i> , 2020, 47, 122.	1.1	12
25	Effects of plant roots and arbuscular mycorrhizas on soil phosphorus leaching. <i>Science of the Total Environment</i> , 2020, 722, 137847.	3.9	24
26	High-throughput phenotyping reveals growth of <i>Medicago truncatula</i> is positively affected by arbuscular mycorrhizal fungi even at high soil phosphorus availability. <i>Plants People Planet</i> , 2020, 3, 600.	1.6	8
27	Wine Terroir and the Soil Bacteria: An Amplicon Sequencing-Based Assessment of the Barossa Valley and Its Sub-Regions. <i>Frontiers in Microbiology</i> , 2020, 11, 597944.	1.5	13
28	Variable effects of arbuscular mycorrhizal fungal inoculation on physiological and molecular measures of root and stomatal conductance of diverse <i>Medicago truncatula</i> accessions. <i>Plant, Cell and Environment</i> , 2019, 42, 285-294.	2.8	32
29	Resource allocation to growth or luxury consumption drives mycorrhizal responses. <i>Ecology Letters</i> , 2019, 22, 1757-1766.	3.0	29
30	The effects of soil phosphorus and zinc availability on plant responses to mycorrhizal fungi: a physiological and molecular assessment. <i>Scientific Reports</i> , 2019, 9, 14880.	1.6	47
31	Arbuscular mycorrhizal fungal inoculation and soil zinc fertilisation affect the productivity and the bioavailability of zinc and iron in durum wheat. <i>Mycorrhiza</i> , 2019, 29, 445-457.	1.3	11
32	Impact of an arbuscular mycorrhizal fungus on the growth and nutrition of fifteen crop and pasture plant species. <i>Functional Plant Biology</i> , 2019, 46, 732.	1.1	41
33	The mycorrhizal pathway of zinc uptake contributes to zinc accumulation in barley and wheat grain. <i>BMC Plant Biology</i> , 2019, 19, 133.	1.6	76
34	Remnant woodland biodiversity gains under 10 years of revealed price incentive payments. <i>Journal of Applied Ecology</i> , 2019, 56, 1827-1838.	1.9	10
35	A slow release brown coal-urea fertiliser reduced gaseous N loss from soil and increased silver beet yield and N uptake. <i>Science of the Total Environment</i> , 2019, 649, 793-800.	3.9	35
36	Why farmers should manage the arbuscular mycorrhizal symbiosis. <i>New Phytologist</i> , 2019, 222, 1171-1175.	3.5	164

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37	Evidence for species-specific plant responses to soil microbial communities from remnant and degraded land provides promise for restoration. <i>Austral Ecology</i> , 2018, 43, 301-308.	0.7	13
38	Who participates in conservation incentive programs? Absentee and group landholders are in the mix. <i>Land Use Policy</i> , 2018, 72, 410-419.	2.5	18
39	Assessing changes in structural vegetation and soil properties following riparian restoration. <i>Agriculture, Ecosystems and Environment</i> , 2018, 252, 22-29.	2.5	26
40	Using measured stocks of biomass and litter carbon to constrain modelled estimates of sequestration of soil organic carbon under contrasting mixed-species environmental plantings. <i>Science of the Total Environment</i> , 2018, 615, 348-359.	3.9	12
41	Mycorrhizal fungi enhance plant nutrient acquisition and modulate nitrogen loss with variable water regimes. <i>Global Change Biology</i> , 2018, 24, e171-e182.	4.2	105
42	Interactions between soil properties, soil microbes and plants in remnant-grassland and old-field areas: a reciprocal transplant approach. <i>Plant and Soil</i> , 2018, 433, 127-145.	1.8	27
43	Nitrogen Dynamics in Soil Fertilized with Slow Release Brown Coal-Urea Fertilizers. <i>Scientific Reports</i> , 2018, 8, 14577.	1.6	34
44	Arbuscular mycorrhizal fungi increase grain zinc concentration and modify the expression of root ZIP transporter genes in a modern barley ( <i>Hordeum vulgare</i> ) cultivar. <i>Plant Science</i> , 2018, 274, 163-170.	1.7	70
45	Rapid prediction of particulate, humus and resistant fractions of soil organic carbon in reforested lands using infrared spectroscopy. <i>Journal of Environmental Management</i> , 2017, 193, 290-299.	3.8	18
46	Generating spatially and statistically representative maps of environmental variables to test the efficiency of alternative sampling protocols. <i>Agriculture, Ecosystems and Environment</i> , 2017, 243, 103-113.	2.5	8
47	Evaluation of phosphorus in thermally converted sewage sludge: P pools and availability to wheat. <i>Plant and Soil</i> , 2017, 418, 307-317.	1.8	40
48	Hybrid brown coal-urea fertiliser reduces nitrogen loss compared to urea alone. <i>Science of the Total Environment</i> , 2017, 601-602, 1496-1504.	3.9	47
49	The dual benefit of arbuscular mycorrhizal fungi under soil zinc deficiency and toxicity: linking plant physiology and gene expression. <i>Plant and Soil</i> , 2017, 420, 375-388.	1.8	48
50	A key role for arbuscular mycorrhiza in plant acquisition of P from sewage sludge recycled to soil. <i>Soil Biology and Biochemistry</i> , 2017, 115, 11-20.	4.2	19
51	Predicting Carbon Stocks Following Reforestation of Pastures: A Sampling Scenario-Based Approach for Testing the Utility of Field-Measured and Remotely Derived Variables. <i>Land Degradation and Development</i> , 2017, 28, 1122-1133.	1.8	0
52	Ecological intensification and arbuscular mycorrhizas: a meta-analysis of tillage and cover crop effects. <i>Journal of Applied Ecology</i> , 2017, 54, 1785-1793.	1.9	166
53	A Concise Review on Multi-Omics Data Integration for Terroir Analysis in <i>Vitis vinifera</i> . <i>Frontiers in Plant Science</i> , 2017, 8, 1065.	1.7	93
54	Global DNA Methylation Patterns Can Play a Role in Defining Terroir in Grapevine ( <i>Vitis vinifera</i> cv.)	1.7	58

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55	Interactions between nocturnal turbulent flux, storage and advection at an "ideal" eucalypt woodland site. <i>Biogeosciences</i> , 2017, 14, 3027-3050.	1.3	20
56	Gold Nanomaterial Uptake from Soil Is Not Increased by Arbuscular Mycorrhizal Colonization of <i>Solanum Lycopersicum</i> (Tomato). <i>Nanomaterials</i> , 2016, 6, 68.	1.9	8
57	Interactive effects of temperature and drought on cassava growth and toxicity: implications for food security?. <i>Global Change Biology</i> , 2016, 22, 3461-3473.	4.2	36
58	Previous land use and climate influence differences in soil organic carbon following reforestation of agricultural land with mixed-species plantings. <i>Agriculture, Ecosystems and Environment</i> , 2016, 227, 61-72.	2.5	33
59	A slow release nitrogen fertiliser produced by simultaneous granulation and superheated steam drying of urea with brown coal. <i>Chemical and Biological Technologies in Agriculture</i> , 2016, 3, .	1.9	29
60	Impact of Herbicides on Soil Biology and Function. <i>Advances in Agronomy</i> , 2016, , 133-220.	2.4	98
61	Effects of arbuscular mycorrhizae on tomato yield, nutrient uptake, water relations, and soil carbon dynamics under deficit irrigation in field conditions. <i>Science of the Total Environment</i> , 2016, 566-567, 1223-1234.	3.9	164
62	Does Biochar Improve Establishment of Tree Seedlings in Saline Sodic Soils?. <i>Land Degradation and Development</i> , 2016, 27, 52-59.	1.8	100
63	Soil respiration, microbial biomass and nutrient availability in soil amended with high and low C/N residue " Influence of interval between residue additions. <i>Soil Biology and Biochemistry</i> , 2016, 95, 189-197.	4.2	38
64	Soil moisture legacy effects: Impacts on soil nutrients, plants and mycorrhizal responsiveness. <i>Soil Biology and Biochemistry</i> , 2016, 95, 173-179.	4.2	85
65	The incorporation of fungal to bacterial ratios and plant ecosystem effect traits into a state-and-transition model of land-use change in semi-arid grasslands. <i>Agriculture, Ecosystems and Environment</i> , 2015, 201, 11-19.	2.5	6
66	Reforestation with native mixed-species plantings in a temperate continental climate effectively sequesters and stabilizes carbon within decades. <i>Global Change Biology</i> , 2015, 21, 1552-1566.	4.2	57
67	Challenges in applying scientific evidence to width recommendations for riparian management in agricultural Australia. <i>Ecological Management and Restoration</i> , 2015, 16, 50-57.	0.7	13
68	Biologically Regulated Nutrient Supply Systems. <i>Advances in Agronomy</i> , 2015, 129, 293-321.	2.4	41
69	Effects of silver sulfide nanomaterials on mycorrhizal colonization of tomato plants and soil microbial communities in biosolid-amended soil. <i>Environmental Pollution</i> , 2015, 206, 256-263.	3.7	80
70	Local and distal effects of arbuscular mycorrhizal colonization on direct pathway Pi uptake and root growth in <i>Medicago truncatula</i> . <i>Journal of Experimental Botany</i> , 2015, 66, 4061-4073.	2.4	40
71	Using mycorrhiza-defective mutant genotypes of non-legume plant species to study the formation and functioning of arbuscular mycorrhiza: a review. <i>Mycorrhiza</i> , 2015, 25, 587-597.	1.3	28
72	How important is the mycorrhizal pathway for plant Zn uptake?. <i>Plant and Soil</i> , 2015, 390, 157-166.	1.8	63

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73	Branching out: Towards a trait-based understanding of fungal ecology. <i>Fungal Biology Reviews</i> , 2015, 29, 34-41.	1.9	118
74	The role of arbuscular mycorrhizas in reducing soil nutrient loss. <i>Trends in Plant Science</i> , 2015, 20, 283-290.	4.3	242
75	Lignite amendment has limited impacts on soil microbial communities and mineral nitrogen availability. <i>Applied Soil Ecology</i> , 2015, 95, 140-150.	2.1	39
76	Temporary Storage or Permanent Removal? The Division of Nitrogen between Biotic Assimilation and Denitrification in Stormwater Biofiltration Systems. <i>PLoS ONE</i> , 2014, 9, e90890.	1.1	84
77	Uptake of zinc and phosphorus by plants is affected by zinc fertiliser material and arbuscular mycorrhizas. <i>Plant and Soil</i> , 2014, 376, 165-175.	1.8	74
78	Scales that matter: guiding effective monitoring of soil properties in restored riparian zones. <i>Geoderma</i> , 2014, 228-229, 173-181.	2.3	24
79	Age versus stage: does ontogeny modify the effect of phosphorus and arbuscular mycorrhizas on above- and below-ground defence in forage sorghum?. <i>Plant, Cell and Environment</i> , 2014, 37, 929-942.	2.8	38
80	Impacts of compost application on the formation and functioning of arbuscular mycorrhizas. <i>Soil Biology and Biochemistry</i> , 2014, 78, 38-44.	4.2	79
81	Nutrient interactions and arbuscular mycorrhizas: a meta-analysis of a mycorrhiza-defective mutant and wild-type tomato genotype pair. <i>Plant and Soil</i> , 2014, 384, 79-92.	1.8	61
82	A Meta-Analysis and Review of Plant-Growth Response to Humic Substances. <i>Advances in Agronomy</i> , 2014, 124, 37-89.	2.4	254
83	Functional stoichiometry of soil microbial communities after amendment with stabilised organic matter. <i>Soil Biology and Biochemistry</i> , 2014, 76, 170-178.	4.2	42
84	Do lignite-derived organic amendments improve early-stage pasture growth and key soil biological and physicochemical properties?. <i>Crop and Pasture Science</i> , 2014, 65, 899.	0.7	28
85	Arbuscular mycorrhizas are beneficial under both deficient and toxic soil zinc conditions. <i>Plant and Soil</i> , 2013, 371, 299-312.	1.8	85
86	Irrigation of an established vineyard with winery cleaning agent solution (simulated winery) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Tc 123, 93-102.	2.4	20
87	Root effects on the spatial and temporal dynamics of oxygen in sand-based laboratory-scale constructed biofilters. <i>Ecological Engineering</i> , 2013, 58, 414-422.	1.6	31
88	Soluble organic components of winery wastewater and implications for reuse. <i>Agricultural Water Management</i> , 2013, 120, 5-10.	2.4	20
89	Drought adversely affects tuber development and nutritional quality of the staple crop cassava ( <i>Manihot esculenta</i> Crantz). <i>Functional Plant Biology</i> , 2013, 40, 195.	1.1	79
90	Variations in the Chemical Composition of Cassava ( <i>Manihot esculenta</i> Crantz) Leaves and Roots As Affected by Genotypic and Environmental Variation. <i>Journal of Agricultural and Food Chemistry</i> , 2012, 60, 4946-4956.	2.4	91

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91	Thermochemolysis of winery wastewater particulates—Molecular structural implications for water reuse. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 97, 164-170.	2.6	4
92	Arbuscular Mycorrhizas Reduce Nitrogen Loss via Leaching. <i>PLoS ONE</i> , 2012, 7, e29825.	1.1	64
93	Arbuscular mycorrhizas modify tomato responses to soil zinc and phosphorus addition. <i>Biology and Fertility of Soils</i> , 2012, 48, 285-294.	2.3	73
94	Cassava about FACE: Greater than expected yield stimulation of cassava ( <i>Manihot esculenta</i> ) by future CO <sub>2</sub> levels. <i>Global Change Biology</i> , 2012, 18, 2661-2675.	4.2	68
95	Total cyanide content of cassava food products in Australia. <i>Journal of Food Composition and Analysis</i> , 2012, 25, 79-82.	1.9	74
96	Developing a vision for improved monitoring and reporting of riparian restoration projects. <i>Ecological Management and Restoration</i> , 2011, 12, e11-e16.	0.7	4
97	Arbuscular mycorrhizas in southeastern Australian processing tomato farm soils. <i>Plant and Soil</i> , 2011, 340, 327-336.	1.8	27
98	Arbuscular mycorrhizas enhance plant interception of leached nutrients. <i>Functional Plant Biology</i> , 2011, 38, 219.	1.1	79
99	Chemical ecology in coupled human and natural systems: people, manioc, multitrophic interactions and global change. <i>Chemoecology</i> , 2010, 20, 109-133.	0.6	72
100	Winery wastewater inhibits seed germination and vegetative growth of common crop species. <i>Journal of Hazardous Materials</i> , 2010, 180, 63-70.	6.5	46
101	Arbuscular mycorrhizas modify plant responses to soil zinc addition. <i>Plant and Soil</i> , 2010, 329, 307-313.	1.8	52
102	Cassava: The Drought, War and Famine Crop in a Changing World. <i>Sustainability</i> , 2010, 2, 3572-3607.	1.6	202
103	Do ammonia-oxidizing archaea respond to soil Cu contamination similarly as ammonia-oxidizing bacteria?. <i>Plant and Soil</i> , 2009, 324, 209-217.	1.8	53
104	Growth and nutritive value of cassava ( <i>Manihot esculenta</i> Cranz.) are reduced when grown in elevated CO <sub>2</sub> . <i>Plant Biology</i> , 2009, 11, 76-82.	1.8	88
105	The role of arbuscular mycorrhizas in improving plant zinc nutrition under low soil zinc concentrations: a review. <i>Plant and Soil</i> , 2008, 304, 315-325.	1.8	174
106	Roots, Nitrogen Transformations, and Ecosystem Services. <i>Annual Review of Plant Biology</i> , 2008, 59, 341-363.	8.6	267
107	Growth, nutrition, and soil respiration of a mycorrhiza-defective tomato mutant and its mycorrhizal wild-type progenitor. <i>Functional Plant Biology</i> , 2008, 35, 228.	1.1	44
108	Mycorrhizal effects on growth and nutrition of tomato under elevated atmospheric carbon dioxide. <i>Functional Plant Biology</i> , 2007, 34, 730.	1.1	26

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109	Metabolic activity of <i>Glomus intraradices</i> in Arum and Paris type arbuscular mycorrhizal colonization. <i>New Phytologist</i> , 2005, 166, 611-618.	3.5	51
110	Interactions between arbuscular mycorrhizal fungi and a mycorrhiza-defective mutant tomato: does a noninfective fungus alter the ability of an infective fungus to colonise the roots and vice versa?. <i>New Phytologist</i> , 2004, 164, 485-491.	3.5	9
111	Rapid accumulation of polyphosphate in extraradical hyphae of an arbuscular mycorrhizal fungus as revealed by histochemistry and a polyphosphate kinase/luciferase system. <i>New Phytologist</i> , 2004, 161, 387-392.	3.5	91
112	Backseat driving? Accessing phosphate beyond the rhizosphere-depletion zone. <i>Trends in Plant Science</i> , 2001, 6, 194-195.	4.3	34