

# Tancredi Caruso

## List of Publications by Year in descending order

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Version: 2024-02-01

106  
papers

5,613  
citations

109264

35  
h-index

91828

69  
g-index

112  
all docs

112  
docs citations

112  
times ranked

7671  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of swidden agriculture on ant communities in Madagascar. <i>Biological Conservation</i> , 2022, 265, 109400.	1.9	2
2	Jack-o'-lanterns are parthenogenetic. <i>Ecology and Evolution</i> , 2022, 12, .	0.8	7
3	Analysis of macrofungal communities reveals a complex reciprocal influence between Mediterranean montane calcareous grassland and surrounding forest habitats. <i>Journal of Systematics and Evolution</i> , 2021, 59, 278-288.	1.6	1
4	Scavenging beetles control the temporal response of soil communities to carrion decomposition. <i>Functional Ecology</i> , 2021, 35, 2033-2044.	1.7	3
5	Upland grassland habitats and agri-environment schemes change soil microarthropod abundance. <i>Journal of Applied Ecology</i> , 2021, 58, 2256-2265.	1.9	4
6	Short-term intensive warming shifts predator communities (Parasitiformes: Mesostigmata) in boreal forest soils. <i>Pedobiologia</i> , 2021, 87-88, 150742.	0.5	1
7	Variance, locality and structure: Three experimental challenges in the study of the response of soil microbial communities to multiple perturbations. <i>Pedobiologia</i> , 2021, 87-88, 150741.	0.5	2
8	Local stability properties of complex, species-rich soil food webs with functional block structure. <i>Ecology and Evolution</i> , 2021, 11, 16070-16081.	0.8	11
9	Improving phosphorus sustainability in intensively managed grasslands: The potential role of arbuscular mycorrhizal fungi. <i>Science of the Total Environment</i> , 2020, 706, 135744.	3.9	13
10	Air mass source determines airborne microbial diversity at the ocean-atmosphere interface of the Great Barrier Reef marine ecosystem. <i>ISME Journal</i> , 2020, 14, 871-876.	4.4	30
11	Hedgerows as Ecosystems: Service Delivery, Management, and Restoration. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2020, 51, 81-102.	3.8	57
12	Methods and approaches to advance soil macroecology. <i>Global Ecology and Biogeography</i> , 2020, 29, 1674-1690.	2.7	28
13	Population asynchrony alone does not explain stability in species-rich soil animal assemblages: The stabilizing role of forest age on oribatid mite communities. <i>Journal of Animal Ecology</i> , 2020, 89, 1520-1531.	1.3	4
14	A global database of soil nematode abundance and functional group composition. <i>Scientific Data</i> , 2020, 7, 103.	2.4	46
15	Plastics everywhere: first evidence of polystyrene fragments inside the common Antarctic collembolan <i>Cryptopygus antarcticus</i> . <i>Biology Letters</i> , 2020, 16, 20200093.	1.0	61
16	Soil microbial community responses to climate extremes: resistance, resilience and transitions to alternative states. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190112.	1.8	146
17	Effects of nutrient fertilization on root decomposition and carbon accumulation in intensively managed grassland soils. <i>Ecosphere</i> , 2020, 11, e03103.	1.0	8
18	Oribatid mites reveal that competition for resources and trophic structure combine to regulate the assembly of diverse soil animal communities. <i>Ecology and Evolution</i> , 2019, 9, 8320-8330.	0.8	23

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19	Drought decreases incorporation of recent plant photosynthate into soil food webs regardless of their trophic complexity. <i>Global Change Biology</i> , 2019, 25, 3549-3561.	4.2	37
20	Soil nematode abundance and functional group composition at a global scale. <i>Nature</i> , 2019, 572, 194-198.	13.7	635
21	Trees in trimmed hedgerows but not tree health increase diversity of oribatid mite communities in intensively managed agricultural land. <i>Soil Biology and Biochemistry</i> , 2019, 138, 107568.	4.2	8
22	Parthenogenetic vs . sexual reproduction in oribatid mite communities. <i>Ecology and Evolution</i> , 2019, 9, 7324-7332.	0.8	24
23	Airborne microbial transport limitation to isolated Antarctic soil habitats. <i>Nature Microbiology</i> , 2019, 4, 925-932.	5.9	114
24	Oribatid mites show how climate and latitudinal gradients in organic matter can drive large-scale biodiversity patterns of soil communities. <i>Journal of Biogeography</i> , 2019, 46, 611-620.	1.4	30
25	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
26	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
27	Oribatid mites show that soil food web complexity and close aboveground-belowground linkages emerged in the early Paleozoic. <i>Communications Biology</i> , 2019, 2, 387.	2.0	21
28	Assessing soil ecosystem processes " biodiversity relationships in a nature reserve in Central Europe. <i>Plant and Soil</i> , 2018, 424, 491-501.	1.8	3
29	Effects of <i>Paenibacillus polymyxa</i> inoculation on below-ground nematode communities and plant growth. <i>Soil Biology and Biochemistry</i> , 2018, 121, 1-7.	4.2	7
30	Disentangling the factors shaping arbuscular mycorrhizal fungal communities across multiple spatial scales. <i>New Phytologist</i> , 2018, 220, 954-956.	3.5	11
31	Stochastic and Deterministic Effects of a Moisture Gradient on Soil Microbial Communities in the McMurdo Dry Valleys of Antarctica. <i>Frontiers in Microbiology</i> , 2018, 9, 2619.	1.5	41
32	Soil organic carbon dynamics matching ecological equilibrium theory. <i>Ecology and Evolution</i> , 2018, 8, 11169-11178.	0.8	18
33	Black-boxing and cause-effect power. <i>PLoS Computational Biology</i> , 2018, 14, e1006114.	1.5	48
34	Linking the community structure of arbuscular mycorrhizal fungi and plants: a story of interdependence?. <i>ISME Journal</i> , 2017, 11, 1400-1411.	4.4	78
35	The role of dispersal and local environment in urban land snail assemblages: an example of three cities in Central Italy. <i>Urban Ecosystems</i> , 2017, 20, 919-931.	1.1	21
36	Unifying concepts of biological function from molecules to ecosystems. <i>Oikos</i> , 2017, 126, 1367-1376.	1.2	40

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37	Priorities for research in soil ecology. <i>Pedobiologia</i> , 2017, 63, 1-7.	0.5	64
38	How causal analysis can reveal autonomy in models of biological systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160358.	1.6	41
39	Highly diverse urban soil communities: Does stochasticity play a major role?. <i>Applied Soil Ecology</i> , 2017, 110, 73-78.	2.1	19
40	Taxonomic and Functional Diversity of Soil and Hypolithic Microbial Communities in Miers Valley, McMurdo Dry Valleys, Antarctica. <i>Frontiers in Microbiology</i> , 2016, 7, 1642.	1.5	93
41	Algal biomass and pigments along a latitudinal gradient in Victoria Land lakes, East Antarctica. <i>Polar Research</i> , 2016, 35, 20703.	1.6	1
42	Soil microbes and community coalescence. <i>Pedobiologia</i> , 2016, 59, 37-40.	0.5	61
43	Eating from the same plate? Revisiting the role of labile carbon inputs in the soil food web. <i>Soil Biology and Biochemistry</i> , 2016, 102, 4-9.	4.2	81
44	Can the macro beat the micro? Integrated information across spatiotemporal scales. <i>Neuroscience of Consciousness</i> , 2016, 2016, niw012.	1.4	75
45	Learning a New Selection Rule in Visual and Frontal Cortex. <i>Cerebral Cortex</i> , 2016, 26, 3611-3626.	1.6	1
46	Arbuscular mycorrhizal fungal hyphae reduce soil erosion by surface water flow in a greenhouse experiment. <i>Applied Soil Ecology</i> , 2016, 99, 137-140.	2.1	57
47	Plant community assembly at small scales: Spatial vs. environmental factors in a European grassland. <i>Acta Oecologica</i> , 2015, 63, 56-62.	0.5	21
48	Interchange of entire communities: microbial community coalescence. <i>Trends in Ecology and Evolution</i> , 2015, 30, 470-476.	4.2	210
49	Diversity and abundance of soil arthropods in urban and suburban holm oak stands. <i>Urban Ecosystems</i> , 2015, 18, 715-728.	1.1	11
50	Functional role of microarthropods in soil aggregation. <i>Pedobiologia</i> , 2015, 58, 59-63.	0.5	76
51	Environmental filtering vs. resource-based niche partitioning in diverse soil animal assemblages. <i>Soil Biology and Biochemistry</i> , 2015, 85, 145-152.	4.2	35
52	Evolution of Integrated Causal Structures in Animats Exposed to Environments of Increasing Complexity. <i>PLoS Computational Biology</i> , 2014, 10, e1003966.	1.5	71
53	Disturbance, neutral theory, and patterns of beta diversity in soil communities. <i>Ecology and Evolution</i> , 2014, 4, 4766-4774.	0.8	42
54	Determinants of root-associated fungal communities within <i>Ascomycota</i> in a semi-arid grassland. <i>Journal of Ecology</i> , 2014, 102, 425-436.	1.9	62

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55	From the Phenomenology to the Mechanisms of Consciousness: Integrated Information Theory 3.0. <i>PLoS Computational Biology</i> , 2014, 10, e1003588.	1.5	657
56	Interactive effects of root endophytes and arbuscular mycorrhizal fungi on an experimental plant community. <i>Oecologia</i> , 2014, 174, 263-270.	0.9	40
57	Community structure, diversity and spatial organization of enchytraeids in Mediterranean urban holm oak stands. <i>European Journal of Soil Biology</i> , 2014, 62, 83-91.	1.4	15
58	Arbuscular mycorrhizal fungal communities are phylogenetically clustered at small scales. <i>ISME Journal</i> , 2014, 8, 2231-2242.	4.4	88
59	Choosing and using diversity indices: insights for ecological applications from the German Biodiversity Exploratories. <i>Ecology and Evolution</i> , 2014, 4, 3514-3524.	0.8	697
60	Just a matter of time: Fungi and roots significantly and rapidly aggregate soil over four decades along the Tagliamento River, NE Italy. <i>Soil Biology and Biochemistry</i> , 2014, 75, 133-142.	4.2	25
61	Modelling the environmental and soil factors that shape the niches of two common arbuscular mycorrhizal fungal families. <i>Plant and Soil</i> , 2013, 368, 507-518.	1.8	39
62	Biotic interactions as a structuring force in soil communities: evidence from the micro-arthropods of an Antarctic moss model system. <i>Oecologia</i> , 2013, 172, 495-503.	0.9	54
63	Effects of soil pollutants, biogeochemistry and microbiology on the distribution and composition of enchytraeid communities in urban and suburban holm oak stands. <i>Environmental Pollution</i> , 2013, 179, 268-276.	3.7	15
64	Arbuscular mycorrhizal fungi "short-term liability but long-term benefits for soil carbon storage?". <i>New Phytologist</i> , 2013, 197, 366-368.	3.5	55
65	Compositional divergence and convergence in arbuscular mycorrhizal fungal communities. <i>Ecology</i> , 2012, 93, 1115-1124.	1.5	65
66	Primary assembly of soil communities: disentangling the effect of dispersal and local environment. <i>Oecologia</i> , 2012, 170, 745-754.	0.9	70
67	On the application of network theory to arbuscular mycorrhizal fungi-plant interactions: the importance of basic assumptions. <i>New Phytologist</i> , 2012, 194, 891-894.	3.5	45
68	Metacommunities and symbiosis: hosts of challenges. <i>Trends in Ecology and Evolution</i> , 2012, 27, 588-589.	4.2	7
69	Phase I and II biotransformation enzymes and polycyclic aromatic hydrocarbons in the Mediterranean mussel ( <i>Mytilus galloprovincialis</i> , Lamarck, 1819) collected in front of an oil refinery. <i>Marine Environmental Research</i> , 2012, 79, 29-36.	1.1	19
70	Spatial autocorrelation in the response of soft-bottom marine benthos to gas extraction activities: The case of amphipods in the Ionian Sea. <i>Marine Environmental Research</i> , 2012, 79, 79-85.	1.1	9
71	Relative role of deterministic and stochastic determinants of soil animal community: a spatially explicit analysis of oribatid mites. <i>Journal of Animal Ecology</i> , 2012, 81, 214-221.	1.3	101
72	Arbuscular mycorrhizal fungi and collembola non-additively increase soil aggregation. <i>Soil Biology and Biochemistry</i> , 2012, 47, 93-99.	4.2	56

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73	Compositional Divergence and Convergence in Local Communities and Spatially Structured Landscapes. PLoS ONE, 2012, 7, e35942.	1.1	14
74	Role of Predators, Habitat Attributes, and Spatial Autocorrelation on the Distribution of Eggs in the Northern Spectacled Salamander ( <i>Salamandrina perspicillata</i> ). Journal of Herpetology, 2011, 45, 389-394.	0.2	2
75	Stochastic and deterministic processes interact in the assembly of desert microbial communities on a global scale. ISME Journal, 2011, 5, 1406-1413.	4.4	301
76	Are power laws that estimate fractal dimension a good descriptor of soil structure and its link to soil biological properties?. Soil Biology and Biochemistry, 2011, 43, 359-366.	4.2	22
77	Direct, positive feedbacks produce instability in models of interrelationships among soil structure, plants and arbuscular mycorrhizal fungi. Soil Biology and Biochemistry, 2011, 43, 1198-1206.	4.2	14
78	An Update on Sedimentary Pigments in Victoria Land Lakes (East Antarctica). Arctic, Antarctic, and Alpine Research, 2011, 43, 22-34.	0.4	2
79	Indigenous Arbuscular Mycorrhizal Fungal Assemblages Protect Grassland Host Plants from Pathogens. PLoS ONE, 2011, 6, e27381.	1.1	35
80	Identifying appropriate sampling and modelling approaches for analysing distributional patterns of Antarctic terrestrial arthropods along the Victoria Land latitudinal gradient. Antarctic Science, 2010, 22, 742-748.	0.5	6
81	Testing metabolic scaling theory using intraspecific allometries in Antarctic microarthropods. Oikos, 2010, 119, 935-945.	1.2	11
82	Population Dynamics of an Urban Population of the Land Snail <i>Marmorana serpentina</i> (Gastropoda). Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.2	5
83	Photosynthetic pigments in soils from northern Victoria Land (continental Antarctica) as proxies for soil algal community structure and function. Soil Biology and Biochemistry, 2009, 41, 2105-2114.	4.2	6
84	Large-scale spatial patterns in the distribution of Collembola (Hexapoda) species in Antarctic terrestrial ecosystems. Journal of Biogeography, 2009, 36, 879-886.	1.4	33
85	Euclidean geometry explains why lengths allow precise body mass estimates in terrestrial invertebrates: The case of oribatid mites. Journal of Theoretical Biology, 2009, 256, 436-440.	0.8	16
86	Spatial patterns and autocorrelation in the response of microarthropods to soil pollutants: The example of oribatid mites in an abandoned mining and smelting area. Environmental Pollution, 2009, 157, 2939-2948.	3.7	21
87	The size and shape of shells used by hermit crabs: A multivariate analysis of <i>Clibanarius erythropus</i> . Acta Oecologica, 2009, 35, 349-354.	0.5	22
88	Temporal variation in the water chemistry of northern Victoria Land lakes (Antarctica). Aquatic Sciences, 2008, 70, 134-141.	0.6	16
89	Biomonitoring of polybrominated diphenyl ether (PBDE) pollution: A field study. Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology, 2008, 148, 80-86.	1.3	22
90	Dietary switching of collembola in grassland soil food webs. Soil Biology and Biochemistry, 2008, 40, 2898-2903.	4.2	9

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91	Biomonitoring Aquatic Environmental Quality in a Marine Protected Area: A Biomarker Approach. <i>Ambio</i> , 2007, 36, 308-315.	2.8	19
92	Modelling local-scale determinants and the probability of microarthropod species occurrence in Antarctic soils. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2949-2956.	4.2	11
93	Assessing abundance and diversity patterns of soil microarthropod assemblages in northern Victoria Land (Antarctica). <i>Polar Biology</i> , 2007, 30, 895-902.	0.5	14
94	The Bergerâ€Parker index as an effective tool for monitoring the biodiversity of disturbed soils: a case study on Mediterranean oribatid (Acari: Oribatida) assemblages. <i>Biodiversity and Conservation</i> , 2007, 16, 3277-3285.	1.2	54
95	Statistical notes to â€The Bergerâ€Parker index as an effective tool for monitoring the biodiversity of disturbed soils: a case study on Mediterranean oribatid (Acari: Oribatida) assemblagesâ€[ <i>Biodiversity and Conservation</i> DOI 10.1007/s10531-006-9137-3]. <i>Biodiversity and Conservation</i> , 2007, 16, 3933-3934.	1.2	1
96	Micro-arthropod communities under human disturbance: is taxonomic aggregation a valuable tool for detecting multivariate change? Evidence from Mediterranean soil oribatid coenoses. <i>Acta Oecologica</i> , 2006, 30, 46-53.	0.5	50
97	A new formulation of the geometric series with applications to oribatid (Acari, Oribatida) species assemblages from human-disturbed Mediterranean areas. <i>Ecological Modelling</i> , 2006, 195, 402-406.	1.2	19
98	The Bergerâ€Parker index as an effective tool for monitoring the biodiversity of disturbed soils: a case study on Mediterranean oribatid (Acari: Oribatida) assemblages. , 2006, , 35-43.		9
99	Do hermit crabs like living in sponges? <i>Paguristes eremita</i> and <i>Suberites domuncula</i> : biometric data from the southern Mediterranean Sea. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2005, 85, 1353-1357.	0.4	5
100	The <i>Euscorpius tergestinus</i> (C.L. Koch, 1837) complex in Italy: Biometrics of sympatric hidden species (Scorpiones: Euscorpiidae). <i>Zoologischer Anzeiger</i> , 2005, 244, 97-113.	0.4	18
101	Contamination and sub-lethal toxicological effects of persistent organic pollutants in the European eel ( <i>Anguilla anguilla</i> ) in the Orbetello lagoon (Tuscany, Italy). <i>Hydrobiologia</i> , 2005, 550, 237-249.	1.0	36
102	Soil communities (Acari Oribatida; Hexapoda Collembola) in a clay pigeon shooting range. <i>Pedobiologia</i> , 2005, 49, 1-13.	0.5	55
103	The effects of spatial scale on the assessment of soil fauna diversity: data from the oribatid mite community of the Pelagian Islands (Sicilian Channel, southern Mediterranean). <i>Acta Oecologica</i> , 2005, 28, 23-31.	0.5	14
104	Note on a deep population of <i>Pagurus prideaux</i> Leach, 1815 (Decapoda, Anomura). <i>Crustaceana</i> , 2004, 77, 757-760.	0.1	2
105	Decapoda Brachyura from Monte Argentario (Mediterranean Sea, central Tyrrhenian). <i>Crustaceana</i> , 2004, 77, 177-186.	0.1	5
106	Decapoda Anomura Paguridea: Morpho-Functional Relationships and Influence of Epibiotic Anemones on Shell Use Along a Bathymetric Cline. <i>Crustaceana</i> , 2003, 76, 149-165.	0.1	7