Tanja Mimmo

List of Publications by Citations

119 papers	3,102 citations	29 h-index	51 g-index
125 ext. papers	4,160 ext. citations	5.2 avg, IF	5.4 L-index

#	Paper	IF	Citations
119	Microbial interactions in the rhizosphere: beneficial influences of plant growth-promoting rhizobacteria on nutrient acquisition process. A review. *Biology and Fertility of Soils*, **2015**, 51, 403-415	6.1	439
118	Plant-borne flavonoids released into the rhizosphere: impact on soil bio-activities related to plant nutrition. A review. *Biology and Fertility of Soils*, **2012**, 48, 123-149	6.1	208
117	Rhizospheric organic compounds in the soil–microorganism–plant system: their role in iron availability. *European Journal of Soil Science*, **2014**, 65, 629-642	3.4	137
116	The interaction between iron nutrition, plant species and soil type shapes the rhizosphere microbiome. *Plant Physiology and Biochemistry*, **2016**, 99, 39-48	5.4	108
115	Hydroponic Solutions for Soilless Production Systems: Issues and Opportunities in a Smart Agriculture Perspective. *Frontiers in Plant Science*, **2019**, 10, 923	6.2	94
114	Copper accumulation in vineyard soils: Rhizosphere processes and agronomic practices to limit its toxicity. *Chemosphere*, **2016**, 162, 293-307	8.4	90
113	Small-scale biomass gasification CHP systems: Comparative performance assessment and monitoring experiences in South Tyrol (Italy). *Energy*, **2016**, 112, 285-293	7.9	73
112	Plant-microorganism-soil interactions influence the Fe availability in the rhizosphere of cucumber plants. *Plant Physiology and Biochemistry*, **2015**, 87, 45-52	5.4	72
111	Shoot ionome to predict the synergism and antagonism between nutrients as affected by substrate and physiological status. *Plant Physiology and Biochemistry*, **2015**, 94, 48-56	5.4	65
110	Phosphorus and iron deficiencies induce a metabolic reprogramming and affect the exudation traits of the woody plant Fragaria×ananassa. *Journal of Experimental Botany*, **2015**, 66, 6483-95	7	58
109	Plant-Microbiota Interactions as a Driver of the Mineral Turnover in the Rhizosphere. *Advances in Applied Microbiology*, **2016**, 95, 1-67	4.9	58
108	Time and substrate dependent exudation of carboxylates by Lupinus albus L. and Brassica napus L. *Plant Physiology and Biochemistry*, **2011**, 49, 1272-8	5.4	57
107	Beneficial effects of silicon on hydroponically grown corn salad (Valerianella locusta (L.) Laterr) plants. *Plant Physiology and Biochemistry*, **2012**, 56, 14-23	5.4	55
106	New Solutions for floating cultivation system of ready-to-eat salad: A review. *Trends in Food Science and Technology*, **2015**, 46, 267-276	15.3	51
105	Enhancement of the bioactive compound content in strawberry fruits grown under iron and phosphorus deficiency. *Journal of the Science of Food and Agriculture*, **2015**, 95, 2088-94	4.3	51
104	Identification of milk origin and process-induced changes in milk by stable isotope ratio mass spectrometry. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 11268-73	5.7	50
103	Influence of different trap solutions on the determination of root exudates in Lupinus albus L.. *Biology and Fertility of Soils*, **2015**, 51, 757-765	6.1	49

102	Selenium Biofortification in : Implications on Strawberry Fruits Quality, Content of Bioactive Health Beneficial Compounds and Metabolomic Profile. *Frontiers in Plant Science*, **2017**, 8, 1887	6.2	47
101	Modulation of Fe acquisition process by Azospirillum brasilense in cucumber plants. *Environmental and Experimental Botany*, **2016**, 130, 216-225	5.9	46
100	Characterisation of Ca- and Al-pectate gels by thermal analysis and FT-IR spectroscopy. *Carbohydrate Research*, **2005**, 340, 2510-9	2.9	45
99	The potential of Zea mays L. in remediating copper and zinc contaminated soils for grapevine production. *Geoderma*, **2016**, 262, 52-61	6.7	42
98	Filtration of apple juice by nylon nanofibrous membranes. *Journal of Food Engineering*, **2014**, 122, 110-116	6	40
97	Physiological and molecular characterization of Fe acquisition by tomato plants from natural Fe complexes. *Biology and Fertility of Soils*, **2013**, 49, 187-200	6.1	37
96	Iron deficiency in barley plants: phytosiderophore release, iron translocation, and DNA methylation. *Frontiers in Plant Science*, **2015**, 6, 514	6.2	35
95	Intercropping of young grapevines with native grasses for phytoremediation of Cu-contaminated soils. *Chemosphere*, **2019**, 216, 147-156	8.4	33
94	Synergism and antagonisms between nutrients induced by copper toxicity in grapevine rootstocks: Monocropping vs. intercropping. *Chemosphere*, **2019**, 214, 563-578	8.4	32
93	Nutrient accumulation in leaves of Fe-deficient cucumber plants treated with natural Fe complexes. *Biology and Fertility of Soils*, **2014**, 50, 973-982	6.1	31
92	Multi-method Approach to Trace the Geographical Origin of Alpine Milk: a Case Study of Tyrol Region. *Food Analytical Methods*, **2016**, 9, 1262-1273	3.4	30
91	Isolation and functional characterization of a high affinity urea transporter from roots of Zea mays. *BMC Plant Biology*, **2014**, 14, 222	5.3	30
90	Dynamics, thermodynamics and kinetics of exudates: crucial issues in understanding rhizosphere processes. *Plant and Soil*, **2015**, 386, 399-406	4.2	29
89	The fertilising potential of manure-based biogas fermentation residues: pelleted liquid digestate. *Heliyon*, **2020**, 6, e03325	3.6	29
88	Italian ryegrass for the phytoremediation of solutions polluted with terbuthylazine. *Chemosphere*, **2015**, 119, 31-36	8.4	27
87	Using stable isotopes in tracing contaminant sources in an industrial area: A case study on the hydrological basin of the Olt River, Romania. *Science of the Total Environment*, **2015**, 533, 17-23	10.2	27
86	Nitrate removal from polluted water by using a vegetated floating system. *Science of the Total Environment*, **2016**, 542, 803-8	10.2	27
85	The effect of lime on the rhizosphere processes and elemental uptake of white lupin. *Environmental and Experimental Botany*, **2015**, 118, 85-94	5.9	25

84	Silicon dynamics in the rhizosphere: Connections with iron mobilization. *Journal of Plant Nutrition and Soil Science*, **2016**, 179, 409-417	2.3	25
83	Azospirillum brasilense inoculation counteracts the induction of nitrate uptake in maize plants. *Journal of Experimental Botany*, **2019**, 70, 1313-1324	7	22
82	Effects of zinc addition to a copper-contaminated vineyard soil on sorption of Zn by soil and plant physiological responses. *Ecotoxicology and Environmental Safety*, **2016**, 129, 109-19	7	22
81	Does Fe accumulation in durum wheat seeds benefit from improved whole-plant sulfur nutrition?. *Journal of Cereal Science*, **2018**, 83, 74-82	3.8	22
80	Hydrothermal Carbonization as a Strategy for Sewage Sludge Management: Influence of Process Withdrawal Point on Hydrochar Properties. *Energies*, **2020**, 13, 2890	3.1	21
79	The effect of excess sulfate supply on iron accumulation in three graminaceous plants at the early vegetative phase. *Environmental and Experimental Botany*, **2016**, 128, 31-38	5.9	21
78	Iron allocation in leaves of Fe-deficient cucumber plants fed with natural Fe complexes. *Physiologia Plantarum*, **2015**, 154, 82-94	4.6	19
77	The characterization of the adaptive responses of durum wheat to different Fe availability highlights an optimum Fe requirement threshold. *Plant Physiology and Biochemistry*, **2016**, 109, 300-307	5.4	19
76	Traceability of different apple varieties by multivariate analysis of isotope ratio mass spectrometry data. *Rapid Communications in Mass Spectrometry*, **2015**, 29, 1984-90	2.2	18
75	Seasonal dynamics of root uptake and spring remobilisation of nitrogen in field grown orange trees. *Scientia Horticulturae*, **2017**, 226, 223-230	4.1	17
74	Combined effect of organic acids and flavonoids on the mobilization of major and trace elements from soil. *Biology and Fertility of Soils*, **2015**, 51, 685-695	6.1	17
73	Effect of aluminium and pH on the mobility of phosphate through a soil-root interface model. *Plant and Soil*, **2005**, 272, 301-311	4.2	17
72	Iron fertilization to enhance tolerance mechanisms to copper toxicity of ryegrass plants used as cover crop in vineyards. *Chemosphere*, **2020**, 243, 125298	8.4	17
71	Copper toxicity affects phosphorus uptake mechanisms at molecular and physiological levels in Cucumis sativus plants. *Plant Physiology and Biochemistry*, **2020**, 157, 138-147	5.4	17
70	Tendril-Based Climbing Plants to Model, Simulate and Create Bio-Inspired Robotic Systems. *Journal of Bionic Engineering*, **2015**, 12, 250-262	2.7	16
69	A comparison between on-line and off-line tar analysis methods applied to common reed pyrolysis. *Fuel*, **2013**, 111, 689-695	7.1	16
68	Phytotoxicity of hydrochars obtained by hydrothermal carbonization of manure-based digestate. *Journal of Environmental Management*, **2021**, 280, 111635	7.9	16
67	Effect of three safeners on sulfur assimilation and iron deficiency response in barley (Hordeum vulgare) plants. *Pest Management Science*, **2017**, 73, 240-245	4.6	15

66	Common reeds (Phragmites australis) as sustainable energy source: experimental and modelling analysis of torrefaction and pyrolysis processes. *GCB Bioenergy*, **2013**, 5, 367-374	5.6	15
65	The Effect of Growth Medium Temperature on Corn Salad [Valerianella locusta (L.) Laterr] Baby Leaf Yield and Quality. *Hortscience: A Publication of the American Society for Hortcultural Science*, **2011**, 46, 1619-1625	2.4	15
64	Role of Azospirillum brasilense in triggering different Fe chelate reductase enzymes in cucumber plants subjected to both nutrient deficiency and toxicity. *Plant Physiology and Biochemistry*, **2019**, 136, 118-126	5.4	14
63	Iron (Fe) speciation in xylem sap by XANES at a high brilliant synchrotron X-ray source: opportunities and limitations. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 5411-9	4.4	13
62	Selenium fortification of hydroponically grown corn salad (Valerianella locusta). *Crop and Pasture Science*, **2015**, 66, 1128	2.2	13
61	Relatively Low Dosages of CeO Nanoparticles in the Solid Medium Induce Adjustments in the Secondary Metabolism and Ionomic Balance of Bean (L.) Roots and Leaves. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 67-76	5.7	13
60	Inoculation with plant growth-promoting bacteria alters the rhizosphere functioning of tomato plants. *Applied Soil Ecology*, **2021**, 158, 103784	5	13
59	Terbuthylazine interferes with iron nutrition in maize (Zea mays) plants. *Acta Physiologiae Plantarum*, **2017**, 39, 1	2.6	12
58	Growth and chemical changes in the rhizosphere of black oat (Avena strigosa) grown in soils contaminated with copper. *Ecotoxicology and Environmental Safety*, **2018**, 163, 19-27	7	12
57	The potential of two different Avena sativa L. cultivars to alleviate Cu toxicity. *Ecotoxicology and Environmental Safety*, **2019**, 182, 109430	7	12
56	Mitochondria dysfunctions under Fe and S deficiency: is citric acid involved in the regulation of adaptive responses?. *Plant Physiology and Biochemistry*, **2018**, 126, 86-96	5.4	11
55	Mycorrhizal contribution to soil respiration in an apple orchard. *Applied Soil Ecology*, **2016**, 101, 165-173	5	11
54	Morphological Root Responses and Molecular Regulation of Cation Transporters Are Differently Affected by Copper Toxicity and Cropping System Depending on the Grapevine Rootstock Genotype. *Frontiers in Plant Science*, **2019**, 10, 946	6.2	11
53	The influence of aluminium availability on phosphate uptake in Phaseolus vulgaris L. and Phaseolus lunatus L. *Plant Physiology and Biochemistry*, **2009**, 47, 68-72	5.4	11
52	DETERMINATION OF BIOLOGICAL MEASURES BY MID-INFRARED DIFFUSE REFLECTANCE SPECTROSCOPY IN SOILS WITHIN A LANDSCAPE. *Soil Science*, **2002**, 167, 281-287	0.9	11
51	Effects of terbuthylazine on phytosiderophores release in iron deficient barley. *Environmental and Experimental Botany*, **2015**, 116, 32-38	5.9	10
50	Single and Combined Fe and S Deficiency Differentially Modulate Root Exudate Composition in Tomato: A Double Strategy for Fe Acquisition?. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	10
49	Soil amendment as a strategy for the growth of young vines when replanting vineyards in soils with high copper content. *Plant Physiology and Biochemistry*, **2018**, 126, 152-162	5.4	10

48	Beneficial Soil Microbiome for Sustainable Agriculture Production. *Sustainable Agriculture Reviews*, **2018**, 443-481	1.3	10
47	Aluminium-phosphate interactions in the rhizosphere of two bean species: Phaseolus lunatus L. and Phaseolus vulgaris L. *Journal of the Science of Food and Agriculture*, **2013**, 93, 3891-6	4.3	9
46	I Like the Way You Eat It: Lemur (Indri indri) Gut Mycobiome and Geophagy. *Microbial Ecology*, **2021**, 82, 215-223	4.4	9
45	A Smart and Sustainable Future for Viticulture Is Rooted in Soil: How to Face Cu Toxicity. *Applied Sciences (Switzerland)*, **2021**, 11, 907	2.6	9
44	Determination of Cheese Authenticity by Carbon and Nitrogen Isotope Analysis: Stelvio Cheese as a Case Study. *Food Analytical Methods*, **2015**, 8, 2157-2162	3.4	8
43	Iron Mobilization and Mineralogical Alterations Induced by Iron-Deficient Cucumber Plants (Cucumis sativus L.) in a Calcareous Soil. *Pedosphere*, **2018**, 28, 59-69	5	8
42	Revisiting Fe/S interplay in tomato: A split-root approach to study the systemic and local responses. *Plant Science*, **2018**, 276, 134-142	5.3	8
41	Plasmopara viticola infection affects mineral elements allocation and distribution in Vitis vinifera leaves. *Scientific Reports*, **2020**, 10, 18759	4.9	8
40	Nutraceutical Profiles of Two Hydroponically Grown Sweet Basil Cultivars as Affected by the Composition of the Nutrient Solution and the Inoculation With. *Frontiers in Plant Science*, **2020**, 11, 596000	6.2	8
39	Root-shoot-root Fe translocation in cucumber plants grown in a heterogeneous Fe provision. *Plant Science*, **2020**, 293, 110431	5.3	7
38	Physiological Changes in Maize Grown in Soil with Copper and Zinc Accumulation Resulting from the Addition of Pig Slurry and Deep Litter over 10 Years. *Water, Air, and Soil Pollution*, **2016**, 227, 1	2.6	7
37	Effect of cadmium on antioxidative enzymes, glutathione content, and glutathionylation in tall fescue. *Biologia Plantarum*, **2014**, 58, 773-777	2.1	7
36	Interaction Between Sulfur and Iron in Plants. *Frontiers in Plant Science*, **2021**, 12, 670308	6.2	7
35	New insights in the allelopathic traits of different barley genotypes: Middle Eastern and Tibetan wild-relative accessions vs. cultivated modern barley. *PLoS ONE*, **2020**, 15, e0231976	3.7	6
34	Temperature control of nutrient solution in floating system cultivation. *Applied Thermal Engineering*, **2014**, 73, 1055-1065	5.8	6
33	Phosphorus deficiency changes carbon isotope fractionation and triggers exudate reacquisition in tomato plants. *Scientific Reports*, **2020**, 10, 15970	4.9	6
32	Evaluating the Aqueous Phase From Hydrothermal Carbonization of Cow Manure Digestate as Possible Fertilizer Solution for Plant Growth. *Frontiers in Plant Science*, **2021**, 12, 687434	6.2	6
31	Dynamics of bacterial communities and substrate conversion during olive-mill waste dark fermentation: Prediction of the metabolic routes for hydrogen production. *Bioresource Technology*, **2021**, 319, 124157	11	6

30	Effect of aluminium exposure on the release of organic acids and genistein from the roots of Lupinus albus L. plants. *Rhizosphere*, **2016**, 1, 29-32	3.5	5
29	Fertilization strategies as a tool to modify the organoleptic properties of raspberry (Rubus idaeus L.) fruits. *Scientia Horticulturae*, **2018**, 240, 205-212	4.1	5
28	Indirect effect of glyphosate on wine fermentation studied by microcalorimetry. *Journal of Thermal Analysis and Calorimetry*, **2017**, 127, 1351-1360	4.1	5
27	Recent Achievements and New Research Opportunities for Optimizing Macronutrient Availability, Acquisition, and Distribution for Perennial Fruit Crops. *Agronomy*, **2020**, 10, 1738	3.6	5
26	Root Handling Affects Carboxylates Exudation and Phosphate Uptake of White Lupin Roots. *Frontiers in Plant Science*, **2020**, 11, 584568	6.2	5
25	Bioinoculants as Promising Complement of Chemical Fertilizers for a More Sustainable Agricultural Practice. *Frontiers in Sustainable Food Systems*, **2021**, 4,	4.8	5
24	The adaptive metabolomic profile and functional activity of tomato rhizosphere are revealed upon PGPB inoculation under saline stress. *Environmental and Experimental Botany*, **2021**, 189, 104552	5.9	5
23	Common and specific responses to iron and phosphorus deficiencies in roots of apple tree (Malus domestica). *Plant Molecular Biology*, **2019**, 101, 129-148	4.6	4
22	Iron oxide-humic acid coprecipitates as iron source for cucumber plants. *Journal of Plant Nutrition and Soil Science*, **2019**, 182, 921-933	2.3	4
21	Physiological Responses to Fe Deficiency in Split-Root Tomato Plants: Possible Roles of Auxin and Ethylene?. *Agronomy*, **2020**, 10, 1000	3.6	4
20	Evaluation of a Legume-Derived Protein Hydrolysate to Mitigate Iron Deficiency in Plants. *Agronomy*, **2020**, 10, 1942	3.6	3
19	Effect of metribuzin on nitrogen metabolism and iron acquisition in Zea mays. *Chemistry and Ecology*, **2019**, 35, 720-731	2.3	3
18	Degradation of citrate promotes copper co-precipitation within aluminium-(hydr)oxides in calcareous soils. *Biology and Fertility of Soils*, **2017**, 53, 115-128	6.1	3
17	Plant species and pH dependent responses to copper toxicity. *Environmental and Experimental Botany*, **2022**, 196, 104791	5.9	3
16	Supervised binary classification methods for strawberry ripeness discrimination from bioimpedance data. *Scientific Reports*, **2021**, 11, 11202	4.9	3
15	SMA bio-robotic mimesis of tendril-based climbing plants: First results **2013**,		2
14	Interactions of organic and inorganic chromium species with Ca-polygalacturonate. *Biology and Fertility of Soils*, **2008**, 44, 521-526	6.1	2
13	Rhizodeposition of Zea mays L. as affected by heterosis. *Archives of Agronomy and Soil Science*, **2007**, 53, 593-604	2	2

12	Potential Use of Copper-Contaminated Soils for Hemp (Cannabis sativa L.) Cultivation. *Environments - MDPI*, **2021**, 8, 111	3.2	2
11	Millimetre-resolution mapping of citrate exuded from soil-grown roots using a novel, low-invasive sampling technique. *Journal of Experimental Botany*, **2021**, 72, 3513-3525	7	2
10	Phytotoxicity alleviation by bacterial species isolated from polycyclic aromatic hydrocarbons (PAHs) contaminated sites. *Environmental Technology and Innovation*, **2019**, 13, 104-112	7	2
9	The hidden effects of agrochemicals on plant metabolism and root-associated microorganisms. *Plant Science*, **2021**, 311, 111012	5.3	2
8	Soil heterogeneity within a vineyard impacts the beta but not the alpha microbial agro-diversity. *Applied Soil Ecology*, **2021**, 166, 104088	5	2
7	Applications of the indole-alkaloid gramine modulate the assembly of individual members of the barley rhizosphere microbiota.. *PeerJ*, **2021**, 9, e12498	3.1	1
6	Epiphytic Microbial Community and Post-Harvest Characteristics of Strawberry Fruits as Affected by Plant Nutritional Regime with Silicon. *Agronomy*, **2021**, 11, 2407	3.6	1
5	Temporal Responses to Direct and Induced Iron Deficiency in Parietaria judaica. *Agronomy*, **2020**, 10, 1037	3.6	1
4	The effect of earthworms on plant response in metal contaminated soil focusing on belowground-aboveground relationships. *Environmental Pollution*, **2021**, 274, 116499	9.3	1
3	Can Inoculation With the Bacterial Biostimulant sp. Strain 15S Be an Approach for the Smarter P Fertilization of Maize and Cucumber Plants?. *Frontiers in Plant Science*, **2021**, 12, 719873	6.2	1
2	Disentangling the Possible Drivers of Microbiome: A Threatened Lemur Species of Madagascar. *Frontiers in Microbiology*, **2021**, 12, 668274	5.7	0
1	Preliminary evaluation of eggshells as a source of phosphate on hydroponically grown tomato (Solanum lycopersicum L.) seedlings. *Journal of Plant Nutrition*, **2020**, 43, 1852-1861	2.3	