

Stefano Mancuso

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8020034/publications.pdf>

Version: 2024-02-01

205
papers

8,419
citations

44069

48
h-index

62596

80
g-index

208
all docs

208
docs citations

208
times ranked

8172
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling botanical biofiltration of indoor air streams contaminated by volatile organic compounds. <i>Journal of Hazardous Materials</i> , 2022, 422, 126875.	12.4	9
2	The Physiological Response of Different Brook Willow (<i>Salix acmophylla</i> Boiss.) Ecotypes to Salinity. <i>Plants</i> , 2022, 11, 739.	3.5	2
3	Stalk cell polar ion transport provide for bladder-based salinity tolerance in <i>Chenopodium quinoa</i> . <i>New Phytologist</i> , 2022, 235, 1822-1835.	7.3	8
4	Bacterial Communities in the Fruiting Bodies and Background Soils of the White Truffle Tuber <i>magnatum</i> . <i>Frontiers in Microbiology</i> , 2022, 13, .	3.5	7
5	Split-root investigation of the physiological response to heterogeneous elevated Zn exposure in poplar and willow. <i>Environmental and Experimental Botany</i> , 2021, 183, 104347.	4.2	9
6	Willow and poplar for the phyto-treatment of landfill leachate in Mediterranean climate. <i>Journal of Environmental Management</i> , 2021, 277, 111454.	7.8	18
7	AI-based hyperspectral and VOCs assessment approach to identify adulterated extra virgin olive oil. <i>European Food Research and Technology</i> , 2021, 247, 1013-1022.	3.3	11
8	Individuality, self and sociality of vascular plants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20190760.	4.0	20
9	Biphasic activation of survival and death pathways in <i>Arabidopsis thaliana</i> cultured cells by sorbitol-induced hyperosmotic stress. <i>Plant Science</i> , 2021, 305, 110844.	3.6	0
10	Barbara G. Pickard - Queen of Plant Electrophysiology. <i>Plant Signaling and Behavior</i> , 2021, 16, 1911400.	2.4	3
11	Are Peach Cultivars Used in Conventional Long Food Supply Chains Suitable for the High-Quality Short Markets?. <i>Foods</i> , 2021, 10, 1253.	4.3	5
12	Early responses to salt stress in quinoa genotypes with opposite behavior. <i>Physiologia Plantarum</i> , 2021, 173, 1392-1420.	5.2	10
13	Electrical signaling related to water stress acclimation. <i>Sensing and Bio-Sensing Research</i> , 2021, 32, 100420.	4.2	3
14	The Response of Halophyte (<i>Tetragonia tetragonioides</i> (Pallas) Kuntz.) and Glycophyte (<i>Lactuca sativa</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Applied Sciences (Switzerland), 2021, 11, 6336.	2.5	7
15	Early signalling processes in roots play a crucial role in the differential salt tolerance in contrasting <i>Chenopodium quinoa</i> accessions. <i>Journal of Experimental Botany</i> , 2021, , .	4.8	4
16	Relationship between Leachate Pollution Index and growth response of two willow and poplar hybrids: Implications for phyto-treatment applications. <i>Waste Management</i> , 2021, 136, 162-173.	7.4	4
17	Our sisters the plants? notes from phylogenetics and botany on plant kinship blindness. <i>Plant Signaling and Behavior</i> , 2021, 16, 2004769.	2.4	6
18	Consciousness Facilitates Plant Behavior. <i>Trends in Plant Science</i> , 2020, 25, 216-217.	8.8	31

#	ARTICLE	IF	CITATIONS
19	Resource availability affects kin selection in two cultivars of <i>Pisum sativum</i> . <i>Plant Growth Regulation</i> , 2020, 90, 321-329.	3.4	14
20	Modeling the Ecosystem Services Related to Phytoextraction: Carbon Sequestration Potential Using Willow and Poplar. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 8011.	2.5	4
21	Algae and Bioguno as promising source of organic fertilizers. <i>Journal of Applied Phycology</i> , 2020, 32, 3971-3981.	2.8	10
22	Volatile organic compound emission and biochemical properties of degraded Ultisols ameliorated by no tillage and liming. <i>Pedosphere</i> , 2020, 30, 597-606.	4.0	6
23	<i>Tetragonia tetragonioides</i> (Pallas) Kuntz. as promising salt-tolerant crop in a saline agricultural context. <i>Agricultural Water Management</i> , 2020, 240, 106261.	5.6	14
24	Stem electrical properties associated with water stress conditions in olive tree. <i>Agricultural Water Management</i> , 2020, 234, 106109.	5.6	13
25	Metabolism regulation during salt exposure in the halophyte <i>Cakile maritima</i> . <i>Environmental and Experimental Botany</i> , 2020, 177, 104075.	4.2	15
26	Tuberomics: a molecular profiling for the adaption of edible fungi (<i>Tuber magnatum</i> Pico) to different natural environments. <i>BMC Genomics</i> , 2020, 21, 90.	2.8	15
27	Plants, climate and humans. <i>EMBO Reports</i> , 2020, 21, e50109.	4.5	34
28	Plants are alive: with all behavioural and cognitive consequences. <i>EMBO Reports</i> , 2020, 21, e50495.	4.5	4
29	Correlation between VOC fingerprinting and antimicrobial activity of several essential oils extracted by plant resins against <i>A. tumefaciens</i> and <i>P. savastanoi</i> . <i>Flavour and Fragrance Journal</i> , 2019, 34, 377-387.	2.6	3
30	Trace element partitioning in a poplar phytoextraction stand in relation to stem size. <i>Journal of Environmental Management</i> , 2019, 247, 688-697.	7.8	9
31	Fruit aroma and sensorial characteristics of traditional and innovative Japanese plum (<i>Prunus</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.8	6
32	Physiological, epigenetic and genetic regulation in some olive cultivars under salt stress. <i>Scientific Reports</i> , 2019, 9, 1093.	3.3	64
33	Activation of plasma membrane H ⁺ -ATPases participates in dormancy alleviation in sunflower seeds. <i>Plant Science</i> , 2019, 280, 408-415.	3.6	15
34	Seawater potential use in soilless culture: A review. <i>Scientia Horticulturae</i> , 2019, 249, 199-207.	3.6	42
35	Correlation Between Volatile Compounds and Spiciness in Domesticated and Wild Fresh Chili Peppers. <i>Food and Bioprocess Technology</i> , 2019, 12, 1366-1380.	4.7	28
36	Growing spinach (<i>Spinacia oleracea</i>) with different seawater concentrations: Effects on fresh, boiled and steamed leaves. <i>Scientia Horticulturae</i> , 2019, 256, 108540.	3.6	23

#	ARTICLE	IF	CITATIONS
37	Root vacuolar Na ⁺ sequestration but not exclusion from uptake correlates with barley salt tolerance. <i>Plant Journal</i> , 2019, 100, 55-67.	5.7	80
38	Long-term soil biological fertility, volatile organic compounds and chemical properties in a vineyard soil after biochar amendment. <i>Geoderma</i> , 2019, 344, 127-136.	5.1	57
39	Friend or Foe? Chloride Patterning in Halophytes. <i>Trends in Plant Science</i> , 2019, 24, 142-151.	8.8	49
40	Airborne signals synchronize the defenses of neighboring plants in response to touch. <i>Journal of Experimental Botany</i> , 2019, 70, 691-700.	4.8	46
41	Anaesthetics stop diverse plant organ movements, affect endocytic vesicle recycling and ROS homeostasis, and block action potentials in Venus flytraps. <i>Annals of Botany</i> , 2018, 122, 747-756.	2.9	38
42	Plant Cognition and Behavior: From Environmental Awareness to Synaptic Circuits Navigating Root Apices. <i>Signaling and Communication in Plants</i> , 2018, , 51-77.	0.7	7
43	Substantial Evidence for Auxin Secretory Vesicles. <i>Plant Physiology</i> , 2018, 176, 2586-2587.	4.8	7
44	Volatome analysis approach for the taxonomic classification of tree exudate collection using Proton Transfer Reaction Time of Flight Mass Spectrometry. <i>Flavour and Fragrance Journal</i> , 2018, 33, 245-262.	2.6	5
45	Trace element phytoextraction from contaminated soil: a case study under Mediterranean climate. <i>Environmental Science and Pollution Research</i> , 2018, 25, 9114-9131.	5.3	43
46	Induction of priming by salt stress in neighboring plants. <i>Environmental and Experimental Botany</i> , 2018, 147, 261-270.	4.2	34
47	Smelling the metal: Volatile organic compound emission under Zn excess in the mint <i>Tetradenia riparia</i> . <i>Plant Science</i> , 2018, 271, 1-8.	3.6	10
48	Phytoremediation of sewage sludge contaminated by trace elements and organic compounds. <i>Environmental Research</i> , 2018, 164, 356-366.	7.5	46
49	Nectar in Plantâ€“Insect Mutualistic Relationships: From Food Reward to Partner Manipulation. <i>Frontiers in Plant Science</i> , 2018, 9, 1063.	3.6	103
50	Na ⁺ extrusion from the cytosol and tissue-specific Na ⁺ sequestration in roots confer differential salt stress tolerance between durum and bread wheat. <i>Journal of Experimental Botany</i> , 2018, 69, 3987-4001.	4.8	73
51	Environmental conditions influence the biochemical properties of the fruiting bodies of <i>Tuber magnatum</i> Pico. <i>Scientific Reports</i> , 2018, 8, 7243.	3.3	27
52	Computers from Plants We Never Made: Speculations. <i>Emergence, Complexity and Computation</i> , 2018, , 357-387.	0.3	13
53	Polyphenols and aromatic volatile compounds in biodynamic and conventional â€“Golden Deliciousâ€™ apples (<i>Malus domestica</i> Bork.). <i>European Food Research and Technology</i> , 2017, 243, 1519-1531.	3.3	12
54	Comparison of decision tree based classification strategies to detect external chemical stimuli from raw and filtered plant electrical response. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 278-295.	7.8	16

#	ARTICLE	IF	CITATIONS
55	On plant roots logical gates. <i>BioSystems</i> , 2017, 156-157, 40-45.	2.0	13
56	Nashi or Williams pear fruits? Use of volatile organic compounds, physicochemical parameters, and sensory evaluation to understand the consumer's preference. <i>European Food Research and Technology</i> , 2017, 243, 1917-1931.	3.3	18
57	Plant Ocelli for Visually Guided Plant Behavior. <i>Trends in Plant Science</i> , 2017, 22, 5-6.	8.8	15
58	Salt acclimation process: a comparison between a sensitive and a tolerant <i>Olea europaea</i> cultivar. <i>Tree Physiology</i> , 2017, 37, 380-388.	3.1	26
59	Covering the different steps of the coffee processing: Can headspace VOC emissions be exploited to successfully distinguish between Arabica and Robusta?. <i>Food Chemistry</i> , 2017, 237, 257-263.	8.2	32
60	Sensory, spectrometric (PTR-ToF-MS) and chemometric analyses to distinguish extra virgin from virgin olive oils. <i>Journal of Food Science and Technology</i> , 2017, 54, 1368-1376.	2.8	14
61	Precipitation affects plant communication and defense. <i>Ecology</i> , 2017, 98, 1693-1699.	3.2	21
62	Effects of increased seawater salinity irrigation on growth and quality of the edible halophyte <i>Mesembryanthemum crystallinum</i> L. under field conditions. <i>Agricultural Water Management</i> , 2017, 187, 37-46.	5.6	54
63	De novo post-illumination monoterpene burst in <i>Quercus ilex</i> (holm oak). <i>Planta</i> , 2017, 245, 459-465.	3.2	8
64	Root potassium and hydrogen flux rates as potential indicators of plant response to zinc, copper and nickel stress. <i>Environmental and Experimental Botany</i> , 2017, 143, 38-50.	4.2	17
65	Investigation of root signaling under heterogeneous salt stress: A case study for <i>Cucumis sativus</i> L.. <i>Environmental and Experimental Botany</i> , 2017, 143, 20-28.	4.2	13
66	The network of plants volatile organic compounds. <i>Scientific Reports</i> , 2017, 7, 11050.	3.3	118
67	Root phonotropism: Early signalling events following sound perception in <i>Arabidopsis</i> roots. <i>Plant Science</i> , 2017, 264, 9-15.	3.6	37
68	A leaf-based back propagation neural network for oleander (<i>Nerium oleander</i> L.) cultivar identification. <i>Computers and Electronics in Agriculture</i> , 2017, 142, 515-520.	7.7	15
69	Role and Regulation of ACC Deaminase Gene in <i>Sinorhizobium meliloti</i> : Is It a Symbiotic, Rhizospheric or Endophytic Gene?. <i>Frontiers in Genetics</i> , 2017, 8, 6.	2.3	29
70	Role of Ion Transporters in Salinity Resistance in Plants. <i>Environmental Control in Biology</i> , 2016, 54, 1-6.	0.7	9
71	PAMP Activity of Cerato-Platanin during Plant Interaction: An -Omic Approach. <i>International Journal of Molecular Sciences</i> , 2016, 17, 866.	4.1	29
72	Mixed Nodule Infection in <i>Sinorhizobium meliloti</i> - <i>Medicago sativa</i> Symbiosis Suggest the Presence of Cheating Behavior. <i>Frontiers in Plant Science</i> , 2016, 7, 835.	3.6	54

#	ARTICLE	IF	CITATIONS
73	Multivariate Approaches to Electronic Nose and PTR-TOF-MS Technologies in Agro-Food Products. , 2016, , 73-82.		6
74	Potassium fluxes and reactive oxygen species production as potential indicators of salt tolerance in <i>Cucumis sativus</i> . <i>Functional Plant Biology</i> , 2016, 43, 1016.	2.1	15
75	Plant shoots exhibit synchronized oscillatory motions. <i>Communicative and Integrative Biology</i> , 2016, 9, e1238117.	1.4	7
76	Understanding of anesthesia – Why consciousness is essential for life and not based on genes. <i>Communicative and Integrative Biology</i> , 2016, 9, e1238118.	1.4	37
77	Awaiting better times: A quiescence response and adventitious root primordia formation prolong survival under cadmium stress in <i>Tetradenia riparia</i> (Hochst.) Codd. <i>Environmental and Experimental Botany</i> , 2016, 130, 1-10.	4.2	5
78	TWISTED DWARF1 Mediates the Action of Auxin Transport Inhibitors on Actin Cytoskeleton Dynamics. <i>Plant Cell</i> , 2016, 28, 930-948.	6.6	88
79	Vision in Plants via Plant-Specific Ocelli?. <i>Trends in Plant Science</i> , 2016, 21, 727-730.	8.8	32
80	Potential and constraints of different seawater and freshwater blends as growing media for three vegetable crops. <i>Agricultural Water Management</i> , 2016, 176, 255-262.	5.6	20
81	Networks of plants: how to measure similarity in vegetable species. <i>Scientific Reports</i> , 2016, 6, 27077.	3.3	5
82	Aromatic and proteomic analyses corroborate the distinction between Mediterranean landraces and modern varieties of durum wheat. <i>Scientific Reports</i> , 2016, 6, 34619.	3.3	15
83	Cell-Type-Specific H ⁺ -ATPase Activity in Root Tissues Enables K ⁺ Retention and Mediates Acclimation of Barley (<i>Hordeum vulgare</i>) to Salinity Stress. <i>Plant Physiology</i> , 2016, 172, 2445-2458.	4.8	158
84	Resting electrical network activity in traps of the aquatic carnivorous plants of the genera <i>Aldrovanda</i> and <i>Utricularia</i> . <i>Scientific Reports</i> , 2016, 6, 24989.	3.3	9
85	Acclimation improves salt stress tolerance in <i>Zea mays</i> plants. <i>Journal of Plant Physiology</i> , 2016, 201, 1-8.	3.5	49
86	Under fungal attack on a metalliferous soil: ROS or not ROS? Insights from <i>Silene paradoxa</i> L. growing under copper stress. <i>Environmental Pollution</i> , 2016, 210, 282-292.	7.5	14
87	Revisiting the Plant's Dilemma. <i>Molecular Plant</i> , 2016, 9, 7-9.	8.3	2
88	Signalling via glutamate and GLRs in <i>Arabidopsis thaliana</i> . <i>Functional Plant Biology</i> , 2016, 43, 1.	2.1	85
89	PTR-TOF-MS and HPLC analysis in the characterization of saffron (<i>Crocus sativus</i> L.) from Italy and Iran. <i>Food Chemistry</i> , 2016, 192, 75-81.	8.2	86
90	Volatile organic compounds in truffle (<i>Tuber magnatum</i> Pico): comparison of samples from different regions of Italy and from different seasons. <i>Scientific Reports</i> , 2015, 5, 12629.	3.3	61

#	ARTICLE	IF	CITATIONS
91	Developing and validating a high-throughput assay for salinity tissue tolerance in wheat and barley. <i>Planta</i> , 2015, 242, 847-857.	3.2	26
92	Production and removal of superoxide anion radical by artificial metalloenzymes and redox-active metals. <i>Communicative and Integrative Biology</i> , 2015, 8, e1000710.	1.4	4
93	Photosynthesizing on metal excess: Copper differently induced changes in various photosynthetic parameters in copper tolerant and sensitive <i>Silene paradoxa</i> L. populations. <i>Plant Science</i> , 2015, 232, 67-76.	3.6	50
94	Soil volatile analysis by proton transfer reaction-time of flight mass spectrometry (PTR-TOF-MS). <i>Applied Soil Ecology</i> , 2015, 86, 182-191.	4.3	55
95	Exploring strategies for classification of external stimuli using statistical features of the plant electrical response. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141225.	3.4	53
96	Class modeling approach to PTR-TOFMS data: a peppers case study. <i>Journal of the Science of Food and Agriculture</i> , 2015, 95, 1757-1763.	3.5	35
97	The cyclophilin A <i>DIAGEOTROPICA</i> gene affects auxin transport in both root and shoot to control lateral root formation. <i>Development (Cambridge)</i> , 2015, 142, 712-21.	2.5	57
98	Linking salinity stress tolerance with tissue-specific Na ⁺ sequestration in wheat roots. <i>Frontiers in Plant Science</i> , 2015, 6, 71.	3.6	86
99	The Electrical Network of Maize Root Apex is Gravity Dependent. <i>Scientific Reports</i> , 2015, 5, 7730.	3.3	24
100	Extrafloral-nectar-based partner manipulation in plant-ant relationships. <i>AoB PLANTS</i> , 2015, 7, .	2.3	42
101	Mitigation of copper toxicity by DNA oligomers in green paramecia. <i>Plant Signaling and Behavior</i> , 2015, 10, e1010919.	2.4	0
102	Drift removal in plant electrical signals via IIR filtering using wavelet energy. <i>Computers and Electronics in Agriculture</i> , 2015, 118, 15-23.	7.7	9
103	Root based responses account for <i>Psidium guajava</i> survival at high nickel concentration. <i>Journal of Plant Physiology</i> , 2015, 174, 137-146.	3.5	28
104	Electrical spiking in bacterial biofilms. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20141036.	3.4	38
105	PTR-TOFMS analysis of volatile compounds in olive fruits. <i>Journal of the Science of Food and Agriculture</i> , 2015, 95, 1428-1434.	3.5	27
106	Nutation in Plants. , 2015, , 19-34.		14
107	Non-invasive Acoustic Sensing of Belowground Wooden Tissues: Possible Application to Spatial Mapping of Soil Usage by Tree Roots. <i>Environmental Control in Biology</i> , 2015, 53, 175-179.	0.7	2
108	Plant anesthesia supports similarities between animals and plants. <i>Plant Signaling and Behavior</i> , 2014, 9, e27886.	2.4	37

#	ARTICLE	IF	CITATIONS
109	Could FaRP-Like Peptides Participate in Regulation of Hyperosmotic Stress Responses in Plants?. <i>Frontiers in Endocrinology</i> , 2014, 5, 132.	3.5	1
110	Gravity Affects the Closure of the Traps in <i>Dionaea muscipula</i> . <i>BioMed Research International</i> , 2014, 2014, 1-5.	1.9	5
111	Oxidative Stress and NO Signalling in the Root Apex as an Early Response to Changes in Gravity Conditions. <i>BioMed Research International</i> , 2014, 2014, 1-10.	1.9	18
112	Forward and inverse modelling approaches for prediction of light stimulus from electrophysiological response in plants. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 53, 101-116.	5.0	37
113	Protection of tobacco cells from oxidative copper toxicity by catalytically active metal-binding DNA oligomers. <i>Journal of Experimental Botany</i> , 2014, 65, 1391-1402.	4.8	10
114	Experience teaches plants to learn faster and forget slower in environments where it matters. <i>Oecologia</i> , 2014, 175, 63-72.	2.0	191
115	Deciphering early events involved in hyperosmotic stress-induced programmed cell death in tobacco BY-2 cells. <i>Journal of Experimental Botany</i> , 2014, 65, 1361-1375.	4.8	44
116	New Insights into the Metabolic and Molecular Mechanism of Plant Response to Anaerobiosis. <i>International Review of Cell and Molecular Biology</i> , 2014, 311, 231-264.	3.2	2
117	Zn ²⁺ -induced changes at the root level account for the increased tolerance of acclimated tobacco plants. <i>Journal of Experimental Botany</i> , 2014, 65, 4931-4942.	4.8	36
118	Synaptic view of eukaryotic cell. <i>International Journal of General Systems</i> , 2014, 43, 740-756.	2.5	10
119	Post-transcriptional regulation of GORK channels by superoxide anion contributes to increases in outward-rectifying K ⁺ currents. <i>New Phytologist</i> , 2013, 198, 1039-1048.	7.3	42
120	Ion channels in plants. <i>Plant Signaling and Behavior</i> , 2013, 8, e23009.	2.4	26
121	Oxygen Deficiency-Induced Root-to-Shoot Communication. <i>Signaling and Communication in Plants</i> , 2013, , 125-147.	0.7	2
122	Root Apex Transition Zone As Oscillatory Zone. <i>Frontiers in Plant Science</i> , 2013, 4, 354.	3.6	108
123	Ozone-induced caspase-like activities are dependent on early ion channel regulations and ROS generation in <i>Arabidopsis thaliana</i> cells. <i>Plant Signaling and Behavior</i> , 2013, 8, e25170.	2.4	4
124	<i>Arabidopsis</i> TWISTED DWARF1 Functionally Interacts with Auxin Exporter ABCB1 on the Root Plasma Membrane. <i>Plant Cell</i> , 2013, 25, 202-214.	6.6	83
125	Smart solutions from the plant kingdom. <i>Bioinspiration and Biomimetics</i> , 2013, 8, 020301.	2.9	6
126	Microorganism and filamentous fungi drive evolution of plant synapses. <i>Frontiers in Cellular and Infection Microbiology</i> , 2013, 3, 44.	3.9	19

#	ARTICLE	IF	CITATIONS
127	The Signal Transducer NPH3 Integrates the Phototropin1 Photosensor with PIN2-Based Polar Auxin Transport in <i>Arabidopsis</i> Root Phototropism. <i>Plant Cell</i> , 2012, 24, 551-565.	6.6	113
128	Finding and defining the natural automata acting in living plants: Toward the synthetic biology for robotics and informatics in vivo. <i>Communicative and Integrative Biology</i> , 2012, 5, 519-526.	1.4	11
129	Acoustic and magnetic communication in plants. <i>Plant Signaling and Behavior</i> , 2012, 7, 1346-1348.	2.4	31
130	Influence of Long-Term Application of Green Waste Compost on Soil Characteristics and Growth, Yield and Quality of Grape (<i>Vitis vinifera</i> L.). <i>Compost Science and Utilization</i> , 2012, 20, 29-33.	1.2	27
131	Local Root Apex Hypoxia Induces NO-Mediated Hypoxic Acclimation of the Entire Root. <i>Plant and Cell Physiology</i> , 2012, 53, 912-920.	3.1	55
132	Towards understanding plant bioacoustics. <i>Trends in Plant Science</i> , 2012, 17, 323-325.	8.8	175
133	Physiology of acclimation to salinity stress in pea (<i>Pisum sativum</i>). <i>Environmental and Experimental Botany</i> , 2012, 84, 44-51.	4.2	96
134	Multi Electrode Arrays (MEAs) and the Electrical Network of the Roots. , 2012, , 51-65.		0
135	The Vibrating Probe Technique in the Study of Root Physiology Under Stress. , 2012, , 67-81.		4
136	Applications of Confocal Microscopy in the Study of Root Apparatus. , 2012, , 93-108.		6
137	BLOKIS: A Model Payload for Multidisciplinary Experiments in Microgravity. <i>Microgravity Science and Technology</i> , 2012, 24, 397-409.	1.4	22
138	Swarming Behavior in Plant Roots. <i>PLoS ONE</i> , 2012, 7, e29759.	2.5	45
139	Out of Sight but Not out of Mind: Alternative Means of Communication in Plants. <i>PLoS ONE</i> , 2012, 7, e37382.	2.5	48
140	Origin of Polar Order in Dense Suspensions of Phototactic Micro-Swimmers. <i>PLoS ONE</i> , 2012, 7, e38895.	2.5	6
141	Regulation of ABCB1/PGP1-catalysed auxin transport by linker phosphorylation. <i>EMBO Journal</i> , 2012, 31, 2965-2980.	7.8	114
142	Multielectrode Array: A New Approach to Plant Electrophysiology. , 2012, , 187-204.		1
143	Ultramorphological and physiological modifications induced by high zinc levels in <i>Paulownia tomentosa</i> . <i>Environmental and Experimental Botany</i> , 2012, 81, 11-17.	4.2	45
144	Self-burial Mechanism of <i>Erodium cicutarium</i> and Its Potential Application for Subsurface Exploration. <i>Lecture Notes in Computer Science</i> , 2012, , 384-385.	1.3	5

#	ARTICLE	IF	CITATIONS
145	Sequential depolarization of root cortical and stelar cells induced by an acute salt shock Ca^{2+} implications for Na^{+} and K^{+} transport into xylem vessels. <i>Plant, Cell and Environment</i> , 2011, 34, 859-869.	5.7	51
146	Assessing the role of root plasma membrane and tonoplast $\text{Na}^{+}/\text{H}^{+}$ exchangers in salinity tolerance in wheat: <i>in planta</i> quantification methods. <i>Plant, Cell and Environment</i> , 2011, 34, 947-961.	5.7	159
147	Illumination of Arabidopsis roots induces immediate burst of ROS production. <i>Plant Signaling and Behavior</i> , 2011, 6, 1460-1464.	2.4	99
148	Effect of Hypoxic Acclimation on Anoxia Tolerance in Vitis Roots: Response of Metabolic Activity and K^{+} Fluxes. <i>Plant and Cell Physiology</i> , 2011, 52, 1107-1116.	3.1	50
149	Electrical signaling and photosynthesis. <i>Plant Signaling and Behavior</i> , 2011, 6, 840-842.	2.4	16
150	On the mechanism underlying photosynthetic limitation upon trigger hair irritation in the carnivorous plant Venus flytrap (<i>Dionaea muscipula</i> Ellis). <i>Journal of Experimental Botany</i> , 2011, 62, 1991-2000.	4.8	87
151	Areas of Research. , 2011, , 55-170.		0
152	AGD5 is a GTPase-activating protein at the trans-Golgi network. <i>Plant Journal</i> , 2010, 64, 790-799.	5.7	33
153	Influence of the Application Renewal of Glutamate and Tartrate on Cd, Cu, Pb and Zn Distribution Between Contaminated Soil and <i>Paulownia Tomentosa</i> in a Pilot-Scale Assisted Phytoremediation Study. <i>International Journal of Phytoremediation</i> , 2010, 13, 1-17.	3.1	30
154	The plant as a biomechatronic system. <i>Plant Signaling and Behavior</i> , 2010, 5, 90-93.	2.4	29
155	Identification of an ABCB/P-glycoprotein-specific Inhibitor of Auxin Transport by Chemical Genomics. <i>Journal of Biological Chemistry</i> , 2010, 285, 23309-23317.	3.4	114
156	Accumulation of xylem transported protein at pit membranes and associated reductions in hydraulic conductance. <i>Journal of Experimental Botany</i> , 2010, 61, 1711-1717.	4.8	27
157	Federico Delpino and the foundation of plant biology. <i>Plant Signaling and Behavior</i> , 2010, 5, 1067-1071.	2.4	1
158	Specificity of Polyamine Effects on NaCl-induced Ion Flux Kinetics and Salt Stress Amelioration in Plants. <i>Plant and Cell Physiology</i> , 2010, 51, 422-434.	3.1	80
159	Root apex transition zone: a signalling "response nexus in the root. <i>Trends in Plant Science</i> , 2010, 15, 402-408.	8.8	245
160	Swarm intelligence in plant roots. <i>Trends in Ecology and Evolution</i> , 2010, 25, 682-683.	8.7	51
161	Oxygen Transport in the Sapwood of Trees. , 2010, , 61-75.		8
162	Discrimination and identification of morphotypes of <i>Banksia integrifolia</i> (Proteaceae) by an Artificial Neural Network (ANN), based on morphological and fractal parameters of leaves and flowers. <i>Taxon</i> , 2009, 58, 925-933.	0.7	12

#	ARTICLE	IF	CITATIONS
163	The "root-brain" hypothesis of Charles and Francis Darwin. <i>Plant Signaling and Behavior</i> , 2009, 4, 1121-1127.	2.4	138
164	Deep evolutionary origins of neurobiology: Turning the essence of 'neural' upside-down. <i>Communicative and Integrative Biology</i> , 2009, 2, 60-65.	1.4	71
165	Plant neurobiology. <i>Plant Signaling and Behavior</i> , 2009, 4, 475-476.	2.4	25
166	Plants and Animals: Convergent Evolution in Action?. <i>Signaling and Communication in Plants</i> , 2009, , 285-301.	0.7	43
167	<i>Arabidopsis</i> Synaptotagmin 1 Is Required for the Maintenance of Plasma Membrane Integrity and Cell Viability. <i>Plant Cell</i> , 2009, 20, 3374-3388.	6.6	206
168	Spatiotemporal dynamics of the electrical network activity in the root apex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4048-4053.	7.1	118
169	Plant neurobiology: from sensory biology, via plant communication, to social plant behavior. <i>Cognitive Processing</i> , 2009, 10, 3-7.	1.4	51
170	Comparing image (fractal analysis) and electrochemical (impedance spectroscopy and electrolyte) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Function, 2009, 23, 159-167.	1.9	30
171	Artificial neural networks as a tool for plant identification: a case study on Vietnamese tea accessions. <i>Euphytica</i> , 2009, 166, 411-421.	1.2	32
172	Phyllometric parameters and artificial neural networks for the identification of <i>Banksia</i> accessions. <i>Australian Systematic Botany</i> , 2009, 22, 31.	0.9	4
173	Enhancement of ammonium and potassium root influxes by the application of marine bioactive substances positively affects <i>Vitis vinifera</i> plant growth. <i>Journal of Applied Phycology</i> , 2008, 20, 177-182.	2.8	49
174	Aluminium toxicity targets PIN2 in <i>Arabidopsis</i> root apices: Effects on PIN2 endocytosis, vesicular recycling, and polar auxin transport. <i>Science Bulletin</i> , 2008, 53, 2480-2487.	9.0	62
175	<i>Camellia japonica</i> L. genotypes identified by an artificial neural network based on phyllometric and fractal parameters. <i>Plant Systematics and Evolution</i> , 2008, 270, 95-108.	0.9	18
176	Dâ€™orenone blocks polarized tip growth of root hairs by interfering with the PIN2â€™mediated auxin transport network in the root apex. <i>Plant Journal</i> , 2008, 55, 709-717.	5.7	43
177	Heavy metal distribution between contaminated soil and <i>Paulownia tomentosa</i> , in a pilot-scale assisted phytoremediation study: Influence of different complexing agents. <i>Chemosphere</i> , 2008, 72, 1481-1490.	8.2	149
178	Modulation of P-glycoproteins by Auxin Transport Inhibitors Is Mediated by Interaction with Immunophilins. <i>Journal of Biological Chemistry</i> , 2008, 283, 21817-21826.	3.4	162
179	Vesicular secretion of auxin. <i>Plant Signaling and Behavior</i> , 2008, 3, 254-256.	2.4	29
180	Evaluation of Composted Green Waste In Ornamental Container-Grown Plants: Effects on Growth and Plant Water Relations. <i>Compost Science and Utilization</i> , 2007, 15, 283-287.	1.2	11

#	ARTICLE	IF	CITATIONS
181	Phospholipase D1 α 2 Drives Vesicular Secretion of Auxin for Its Polar Cell-Cell Transport in the Transition Zone of the Root Apex. <i>Plant Signaling and Behavior</i> , 2007, 2, 240-244.	2.4	62
182	Response to Alpi et al.: Plant neurobiology: the gain is more than the name. <i>Trends in Plant Science</i> , 2007, 12, 285-286.	8.8	48
183	Plant Neurobiology as a Paradigm Shift Not Only in the Plant Sciences. <i>Plant Signaling and Behavior</i> , 2007, 2, 205-207.	2.4	34
184	Nutation in Plants. , 2007, , 77-90.		10
185	Plant neurobiology: an integrated view of plant signaling. <i>Trends in Plant Science</i> , 2006, 11, 413-419.	8.8	344
186	Actin Turnover-Mediated Gravity Response in Maize Root Apices. <i>Plant Signaling and Behavior</i> , 2006, 1, 52-58.	2.4	42
187	Auxin Immunolocalization Implicates Vesicular Neurotransmitter-Like Mode of Polar Auxin Transport in Root Apices. <i>Plant Signaling and Behavior</i> , 2006, 1, 122-133.	2.4	91
188	Oscillations in plant membrane transport: model predictions, experimental validation, and physiological implications. <i>Journal of Experimental Botany</i> , 2006, 57, 171-184.	4.8	83
189	Adaptative Response of Vitis Root to Anoxia. <i>Plant and Cell Physiology</i> , 2006, 47, 401-409.	3.1	41
190	Immunophilin-like TWISTED DWARF1 Modulates Auxin Efflux Activities of Arabidopsis P-glycoproteins*. <i>Journal of Biological Chemistry</i> , 2006, 281, 30603-30612.	3.4	181
191	Neurobiological View of Plants and Their Body Plan. , 2006, , 19-35.		32
192	Long-Distance Signal Transmission in Trees. , 2006, , 333-349.		2
193	New Solid State Microsensors in Plant Physiology. , 2006, , 155-171.		2
194	Noninvasive and continuous recordings of auxin fluxes in intact root apex with a carbon nanotube-modified and self-referencing microelectrode. <i>Analytical Biochemistry</i> , 2005, 341, 344-351.	2.4	153
195	MDR-like ABC transporter AtPGP4 is involved in auxin-mediated lateral root and root hair development. <i>FEBS Letters</i> , 2005, 579, 5399-5406.	2.8	202
196	Comparing fractal analysis, electrical impedance and electrolyte leakage for the assessment of cold tolerance in <i>Callistemon</i> and <i>Grevillea</i> spp.. <i>Journal of Horticultural Science and Biotechnology</i> , 2004, 79, 627-632.	1.9	13
197	Different pathways of the oxygen supply in the sapwood of young <i>Olea europaea</i> trees. <i>Planta</i> , 2003, 216, 1028-1033.	3.2	37
198	The fractal spectrum of leaf colour as a tool for measuring frost hardiness in plants. <i>Journal of Horticultural Science and Biotechnology</i> , 2003, 78, 610-616.	1.9	4

#	ARTICLE	IF	CITATIONS
199	Characterisation of the oxygen fluxes in the division, elongation and mature zones of <i>Vitis</i> roots: influence of oxygen availability. <i>Planta</i> , 2002, 214, 767-774.	3.2	57
200	Electrical resistance changes during exposure to low temperature measure chilling and freezing tolerance in olive tree (<i>Olea europaea</i> L.) plants. <i>Plant, Cell and Environment</i> , 2000, 23, 291-299.	5.7	56
201	A polarographic, oxygen-selective, vibrating-microelectrode system for the spatial and temporal characterisation of transmembrane oxygen fluxes in plants. <i>Planta</i> , 2000, 211, 384-389.	3.2	46
202	Electrochemical behaviour of a Cu/CuSe microelectrode and its application in detecting temporal and spatial localisation of copper(II) fluxes along <i>Olea europaea</i> roots. <i>Journal of Solid State Electrochemistry</i> , 2000, 4, 325-329.	2.5	13
203	Seasonal dynamics of electrical impedance parameters in shoots and leaves related to rooting ability of olive (<i>Olea europea</i>) cuttings. <i>Tree Physiology</i> , 1999, 19, 95-101.	3.1	45
204	Hydraulic and electrical transmission of wound-induced signals in <i>Vitis vinifera</i> . <i>Functional Plant Biology</i> , 1999, 26, 55.	2.1	91
205	Long-Distance Signal Transmission in Trees. , 0, , 333-349.		0