JoÃ«l Fontaine

List of Publications by Year
in descending order

55 papers	2,295 citations	236833 25 h-index	214721 47 g-index
57 all docs	57 docs citations	57 times ranked	2662 citing authors

#	Article	IF	Citations
1	Arbuscular mycorrhizal fungal responses to abiotic stresses: A review. Phytochemistry, 2016, 123, 4-15.	1.4	335
2	Essential Oils as Potential Alternative Biocontrol Products against Plant Pathogens and Weeds: A Review. Foods, 2020, 9, 365.	1.9	242
3	Novel Entries in a Fungal Biofilm Matrix Encyclopedia. MBio, 2014, 5, e01333-14.	1.8	234
4	BMP-4 inhibits follicle-stimulating hormone secretion in ewe pituitary. Journal of Endocrinology, 2005, 186, 109-121.	1.2	90
5	Effects of anthracene on development of an arbuscular mycorrhizal fungus and contribution of the symbiotic association to pollutant dissipation. Mycorrhiza, 2006, 16, 397-405.	1.3	85
6	Impact of soil salinity on arbuscular mycorrhizal fungi biodiversity and microflora biomass associated with Tamarix articulata Vahll rhizosphere in arid and semi-arid Algerian areas. Science of the Total Environment, 2015, 533, 488-494.	3.9	81
7	Solubility, photostability and antifungal activity of phenylpropanoids encapsulated in cyclodextrins. Food Chemistry, 2016, 196, 518-525.	4.2	79
8	Mycorrhization alleviates benzo[a]pyrene-induced oxidative stress in an in vitro chicory root model. Phytochemistry, 2009, 70, 1421-1427.	1.4	57
9	Arbuscular mycorrhizal fungal inoculation protects MiscanthusÃ—giganteus against trace element toxicity in a highly metal-contaminated site. Science of the Total Environment, 2015, 527-528, 91-99.	3.9	56
10	Arbuscular mycorrhizal fungalâ€assisted phytoremediation of soil contaminated with persistent organic pollutants: a review. European Journal of Soil Science, 2016, 67, 624-640.	1.8	54
11	In vitro evaluation of the oxidative stress and genotoxic potentials of anthracene on mycorrhizal chicory roots. Environmental and Experimental Botany, 2008, 64, 120-127.	2.0	51
12	Metal accumulation and shoot yield of MiscanthusÃ—giganteus growing in contaminated agricultural soils: Insights into agronomic practices. Agriculture, Ecosystems and Environment, 2015, 213, 61-71.	2.5	50
13	<i>Glomus proliferum</i> sp. nov.: a description based on morphological, biochemical, molecular and monoxenic cultivation data. Mycologia, 2000, 92, 1178-1187.	0.8	47
14	Effects of two sterol biosynthesis inhibitor fungicides (fenpropimorph and fenhexamid) on the development of an arbuscular mycorrhizal fungus. Mycological Research, 2008, 112, 592-601.	2.5	47
15	Defence mechanisms associated with mycorrhiza-induced resistance in wheat against powdery mildew. Functional Plant Biology, 2017, 44, 443.	1.1	44
16	Differential effects of fenpropimorph and fenhexamid, two sterol biosynthesis inhibitor fungicides, on arbuscular mycorrhizal development and sterol metabolism in carrot roots. Phytochemistry, 2008, 69, 2912-2919.	1.4	42
17	Glomus proliferum sp. nov.: A Description Based on Morphological, Biochemical, Molecular and Monoxenic Cultivation Data. Mycologia, 2000, 92, 1178.	0.8	41
18	Phosphorus supply, arbuscular mycorrhizal fungal species, and plant genotype impact on the protective efficacy of mycorrhizal inoculation against wheat powdery mildew. Mycorrhiza, 2016, 26, 685-697.	1.3	40

#	Article	IF	Citations
19	Endobacteria affect the metabolic profile of their host <i>Gigaspora margarita</i>, an arbuscular mycorrhizal fungus. Environmental Microbiology, 2010, 12, 2083-2095.	1.8	37
20	24â€Methyl/methylene sterols increase in monoxenic roots after colonization by arbuscular mycorrhizal fungi. New Phytologist, 2004, 163, 159-167.	3.5	36
21	Sterol biosynthesis by the arbuscular mycorrhizal fungus Glomus intraradices. Lipids, 2001, 36, 1357-1363.	0.7	35
22	Lipid content disturbance in the arbuscular mycorrhizal, Glomus irregulare grown in monoxenic conditions under PAHs pollution. Fungal Biology, 2011, 115, 782-792.	1.1	31
23	Fenpropimorph slows down the sterol pathway and the development of the arbuscular mycorrhizal fungus Glomus intraradices. Mycorrhiza, 2009, 19, 365-374.	1.3	30
24	Diversity of Phosphate Chemical Forms in Soils and Their Contributions on Soil Microbial Community Structure Changes. Microorganisms, 2022, 10, 609.	1.6	30
25	Arbuscular mycorrhiza partially protect chicory roots against oxidative stress induced by two fungicides, fenpropimorph and fenhexamid. Mycorrhiza, 2010, 20, 167-178.	1.3	28
26	Endocrine Characterization of the Reproductive Axis in Highly Prolific Lacaune Sheep Homozygous for the FecLL Mutation1. Biology of Reproduction, 2010, 82, 815-824.	1.2	28
27	The Oil of Adenanthera pavonina L. Seeds and its Emulsions. Zeitschrift Fur Naturforschung - Section C Journal of Biosciences, 2004, 59, 321-326.	0.6	22
28	Nature of fly ash amendments differently influences oxidative stress alleviation in four forest tree species and metal trace element phytostabilization in aged contaminated soil: A long-term field experiment. Ecotoxicology and Environmental Safety, 2017, 138, 190-198.	2.9	22
29	Origanum syriacum Essential Oil Chemical Polymorphism According to Soil Type. Foods, 2019, 8, 90.	1.9	22
30	Polyaromatic hydrocarbons impair phosphorus transport by the arbuscular mycorrhizal fungus Rhizophagus irregularis. Chemosphere, 2014, 104, 97-104.	4.2	21
31	Propiconazole inhibits the sterol 14Î±-demethylase in Glomus irregulare like in phytopathogenic fungi. Chemosphere, 2012, 87, 376-383.	4.2	20
32	The arbuscular mycorrhizal Rhizophagus irregularis activates storage lipid biosynthesis to cope with the benzo[a]pyrene oxidative stress. Phytochemistry, 2014, 97, 30-37.	1.4	20
33	Beneficial contribution of the arbuscular mycorrhizal fungus, Rhizophagus irregularis, in the protection of Medicago truncatula roots against benzo[a]pyrene toxicity. Mycorrhiza, 2017, 27, 465-476.	1.3	18
34	In situ cultivation of aromatic plant species for the phytomanagement of an aged-trace element polluted soil: Plant biomass improvement options and techno-economic assessment of the essential oil production channel. Science of the Total Environment, 2021, 789, 147944.	3.9	18
35	Functional characterization of a C-4 sterol methyl oxidase from the endomycorrhizal fungus Glomus intraradices. Fungal Genetics and Biology, 2009, 46, 486-495.	0.9	17
36	Fungal Morphology, Iron Homeostasis, and Lipid Metabolism Regulated by a GATA Transcription Factor in Blastomyces dermatitidis. PLoS Pathogens, 2015, 11, e1004959.	2.1	16

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37	Fly ash-aided phytostabilisation of highly trace element polluted topsoils improves the telluric fungal biomass: A long-term field experiment. Applied Soil Ecology, 2015, 85, 69-75.	2.1	15
38	Ecotoxicity evaluation and human risk assessment of an agricultural polluted soil. Environmental Monitoring and Assessment, 2018, 190, 738.	1.3	14
39	The Aromatic Plant Clary Sage Shaped Bacterial Communities in the Roots and in the Trace Element-Contaminated Soil More Than Mycorrhizal Inoculation â€" A Two-Year Monitoring Field Trial. Frontiers in Microbiology, 2020, 11, 586050.	1.5	14
40	Benzo[a]pyrene induced lipid changes in the monoxenic arbuscular mycorrhizal chicory roots. Journal of Hazardous Materials, 2012, 209-210, 18-26.	6.5	13
41	Initial microbial status modulates mycorrhizal inoculation effect on rhizosphere microbial communities. Mycorrhiza, 2019, 29, 475-487.	1.3	13
42	Arbuscular mycorrhizal inoculum sources influence bacterial, archaeal, and fungal communitiesâ€™ structures of historically dioxin/furan-contaminated soil but not the pollutant dissipation rate. Mycorrhiza, 2018, 28, 635-650.	1.3	12
43	Antifungal and Phytotoxic Activities of Essential Oils: In Vitro Assays and Their Potential Use in Crop Protection. Agronomy, 2020, 10, 825.	1.3	11
44	In Vitro Potential of Clary Sage and Coriander Essential Oils as Crop Protection and Post-Harvest Decay Control Products. Foods, 2022, 11, 312.	1.9	11
45	Chemical Composition, Antioxidant and Anti-Inflammatory Activities of Clary Sage and Coriander Essential Oils Produced on Polluted and Amended Soils-Phytomanagement Approach. Molecules, 2021, 26, 5321.	1.7	10
46	Aided Phytoremediation to Clean Up Dioxins/Furans-Aged Contaminated Soil: correlation between microbial communities and pollutant dissipation. Microorganisms, 2019, 7, 523.	1.6	9
47	8 Lipids of Mycorrhizas. , 2012, , 137-169.		8
48	Carbon Metabolism, Lipid Composition and Metabolism in Arbuscular Mycorrhizal Fungi. , 2005, , 159-180.		6
49	Impact of anthracene on the arbuscular mycorrhizal fungus lipid metabolism. Botany, 2014, 92, 173-178.	0.5	6
50	Arbuscular Mycorrhizal Fungi as Potential Bioprotectants Against Aerial Phytopathogens and Pests. , 2017, , 195-223.		4
51	Clary Sage Cultivation and Mycorrhizal Inoculation Influence the Rhizosphere Fungal Community of an Aged Trace-Element Polluted Soil. Microorganisms, 2021, 9, 1333.	1.6	3
52	Arbuscular mycorrhizal fungi-assisted phytoremediation: Concepts, challenges, and future perspectives. , 2022, , 49-100.		3
53	Combined Use of Beneficial Bacteria and Arbuscular Mycorrhizal Fungi for the Biocontrol of Plant Cryptogamic Diseases: Evidence, Methodology, and Limits. Soil Biology, 2021, , 429-468.	0.6	3
54	Anastomosis of the ovarian vein to the hepatic portal vein in sheep induces ovarian hyperstimulation associated with increased LH pulsatility, but only in the absence of the contralateral ovary. Journal of Endocrinology, 2000, 165, 411-423.	1.2	1

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55	Dioxins/furans disturb the life cycle of the arbuscular mycorrhizal fungus, <i>Rhizophagus irregularis</i> and chicory root elongation grown under axenic conditions. International Journal of Phytoremediation, 2020, 22, 1497-1504.	1.7	0