Katarzyna Turnau

List of Publications by Year in descending order

85 papers	4,754 citations	117453 34 h-index	98622 67 g-index
88 all docs	88 docs citations	88 times ranked	4268 citing authors

#	Article	IF	Citations
1	The contribution of arbuscular mycorrhizal fungi in sustainable maintenance of plant health and soil fertility. Biology and Fertility of Soils, 2003, 37, 1-16.	2.3	786
2	Effect of heavy metal pollution on mycorrhizal colonization and function: physiological, ecological and applied aspects. Mycorrhiza, 1997, 7, 139-153.	1.3	732
3	Cadmium accumulation and buffering of cadmium-induced stress by arbuscular mycorrhiza in three Pisum sativum L. genotypes. Journal of Experimental Botany, 2002, 53, 1177-1185.	2.4	174
4	Identification of arbuscular mycorrhizal fungi in soils and roots of plants colonizing zinc wastes in southern Poland. Mycorrhiza, 2001, 10, 169-174.	1.3	146
5	Arbuscular mycorrhiza of Berkheya coddii and other Ni-hyperaccumulating members of Asteraceae from ultramafic soils in South Africa. Mycorrhiza, 2003, 13, 185-190.	1.3	142
6	Differential responses of ectomycorrhizal fungi to heavy metals in vitro. Mycological Research, 2000, 104, 1366-1371.	2.5	128
7	Element localization in mycorrhizal roots of Pteridium aquilinum (L.) Kuhn collected from experimental plots treated with cadmium dust. New Phytologist, 1993, 123, 313-324.	3.5	125
8	Hypericin and pseudohypericin concentrations of a valuable medicinal plant Hypericum perforatum L. are enhanced by arbuscular mycorrhizal fungi. Mycorrhiza, 2012, 22, 149-156.	1.3	103
9	Antifungal properties of silver nanoparticles against indoor mould growth. Science of the Total Environment, 2015, 521-522, 305-314.	3.9	98
10	Effect of different arbuscular mycorrhizal fungal isolates on growth and arsenic accumulation in Plantago lanceolata L.. Environmental Pollution, 2012, 168, 121-130.	3.7	92
11	Ericoid mycorrhizal fungi from heavy metal polluted soils: their identification and growth in the presence of zinc ions. Mycological Research, 2000, 104, 338-344.	2.5	91
12	In situ Raman imaging of astaxanthin in a single microalgal cell. Analyst, The, 2011, 136, 1109.	1.7	84
13	Paxillus involutus â€" Pinus sylvestris Mycorrhizae from Heavily Polluted Forest.. Botanica Acta, 1993, 106, 213-219.	1.6	83
14	Response of endangered plant species to inoculation with arbuscular mycorrhizal fungi and soil bacteria. Mycorrhiza, 2009, 19, 113-123.	1.3	83
15	Influence of restoration on arbuscular mycorrhiza of Biscutella laevigata L. (Brassicaceae) and Plantago lanceolata L. (Plantaginaceae) from calamine spoil mounds. Mycorrhiza, 2002, 12, 153-159.	1.3	82
16	Toxic element filtering in Rhizopogon roseolus/Pinus sylvestris mycorrhizas collected from calamine dumps. Mycological Research, 1996, 100, 16-22.	2.5	79
17	The potential role of arbuscular mycorrhizal fungi in protecting endangered plants and habitats. Mycorrhiza, 2010, 20, 445-457.	1.3	79
18	Enhanced concentrations of elements and secondary metabolites in Viola tricolor L. induced by arbuscular mycorrhizal fungi. Plant and Soil, 2015, 390, 129-142.	1.8	76

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19	The effect of mycorrhiza on the growth and elemental composition of Ni-hyperaccumulating plant Berkheya coddii Roessler. Environmental Pollution, 2011, 159, 3730-3738.	3.7	73
20	Heavy metal content and localization in mycorrhizal Euphorbia cyparissias zinc wastes in southern Poland. Acta Societatis Botanicorum Poloniae, 2014, 67, 105-113.	0.8	71
21	Optimization of culture conditions of Arnica montana L.: effects of mycorrhizal fungi and competing plants. Mycorrhiza, 2010, 20, 293-306.	1.3	66
22	The Role of Strigolactone in the Cross-Talk Between Arabidopsis thaliana and the Endophytic Fungus Mucor sp.. Frontiers in Microbiology, 2018, 9, 441.	1.5	66
23	Developing Sustainable Agromining Systems in Agricultural Ultramafic Soils for Nickel Recovery. Frontiers in Environmental Science, 2018, 6, .	1.5	63
24	Arbuscular mycorrhizal fungi alter thymol derivative contents of Inula ensifolia L.. Mycorrhiza, 2010, 20, 497-504.	1.3	59
25	Interactions of arbuscular mycorrhizal and endophytic fungi improve seedling survival and growth in post-mining waste. Mycorrhiza, 2017, 27, 499-511.	1.3	55
26	Establishment of arbuscular mycorrhizal plants originating from xerothermic grasslands on heavy metal rich industrial wastesâ€“new solution for waste revegetation. Plant and Soil, 2008, 305, 267-280.	1.8	53
27	Metal uptake and detoxification mechanisms in Erica andevalensis growing in a pyrite mine tailing. Environmental and Experimental Botany, 2007, 61, 117-123.	2.0	52
28	137Cs and 40K in fruiting bodies of different fungal species collected in a single forest in southern Poland. Journal of Environmental Radioactivity, 2010, 101, 706-711.	0.9	52
29	Does co-inoculation of Lactuca serriola with endophytic and arbuscular mycorrhizal fungi improve plant growth in a polluted environment?. Mycorrhiza, 2018, 28, 235-246.	1.3	50
30	Accumulation of copper by Acremonium pinkertoniae, a fungus isolated from industrial wastes. Microbiological Research, 2007, 162, 219-228.	2.5	49
31	Are Fungal Endophytes Merely Mycorrhizal Copycats? The Role of Fungal Endophytes in the Adaptation of Plants to Metal Toxicity. Frontiers in Microbiology, 2019, 10, 371.	1.5	47
32	Microscopic Processes Ruling the Bioavailability of Zn to Roots of Euphorbia pithyusa L. Pioneer Plant. Environmental Science & Technology, 2015, 49, 1400-1408.	4.6	42
33	Arbuscular mycorrhiza improves yield and nutritional properties of onion (Allium cepa). Plant Physiology and Biochemistry, 2016, 107, 264-272.	2.8	37
34	Metal uptake by xerothermic plants introduced into Zn-Pb industrial wastes. Plant and Soil, 2010, 337, 299-311.	1.8	36
35	Mycorrhizal colonization affects the elemental distribution in roots of Ni-hyperaccumulator Berkheya coddii Roessler. Environmental Pollution, 2013, 175, 100-109.	3.7	35
36	Arbuscular mycorrhiza of introduced and native grasses colonizing zinc wastes: implications for restoration practices. Plant and Soil, 2007, 298, 219.	1.8	34

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37	Effect of combined microbes on plant tolerance to Znâ€“Pb contaminations. Environmental Science and Pollution Research, 2015, 22, 19142-19156.	2.7	32
38	Mucor sp.â€”An endophyte of Brassicaceae capable of surviving in toxic metalâ€rich sites. Journal of Basic Microbiology, 2019, 59, 24-37.	1.8	30
39	Arbuscular Mycorrhizal and Dark Septate Endophyte Colonization along Altitudinal Gradients in the Tatra Mountains. Arctic, Antarctic, and Alpine Research, 2009, 41, 272-279.	0.4	29
40	ROLE OF MYCORRHIZAL FUNGI IN PHYTOREMEDIATION AND TOXICITY MONITORING OF HEAVY METAL RICH INDUSTRIAL WASTES IN SOUTHERN POLAND. , 2006, , 533-551.		29
41	Arbuscular mycorrhiza of endemic and endangered plants from the Tatra Mts. Acta Societatis Botanicorum Poloniae, 2011, 77, 149-156.	0.8	28
42	Assessment of the applicability of a â€œtoolboxâ€•designed for microbially assisted phytoremediation: the case study at Ingurtosu mining site (Italy). Environmental Science and Pollution Research, 2014, 21, 6939-6951.	2.7	27
43	Acclimation of the photosynthetic apparatus and alterations in sugar metabolism in response to inoculation with endophytic fungi. Plant, Cell and Environment, 2019, 42, 1408-1423.	2.8	26
44	Role of Mycorrhizal Colonization in Plant Establishment on an Alkaline Gold Mine Tailing. International Journal of Phytoremediation, 2010, 13, 185-205.	1.7	25
45	Arbuscular Mycorrhiza, Heavy Metal,and Salt Tolerance. Soil Biology, 2010, , 87-111.	0.6	21
46	Arbuscular mycorrhiza and plant succesion on zinc smelter spoil heap in Katowice-WeÅ‚nowiec. Acta Societatis Botanicorum Poloniae, 2014, 70, 153-158.	0.8	21
47	Role of mycorhizal links between plants in establishment of liverworts thalli in natural habitats. Acta Societatis Botanicorum Poloniae, 2014, 68, 63-68.	0.8	20
48	The effect of endophytic fungi on growth and nickel accumulation in Noccaea hyperaccumulators. Science of the Total Environment, 2021, 768, 144666.	3.9	19
49	The diversity of endophytic fungi in Verbascum lychnitis from industrial areas. Symbiosis, 2014, 64, 139-147.	1.2	18
50	Editorial: Mycorrhizosphere Communication: Mycorrhizal Fungi and Endophytic Fungus-Plant Interactions. Frontiers in Microbiology, 2018, 9, 3015.	1.5	18
51	Mycorrhizal-Based Phytostabilization of Znâ€“Pb Tailings: Lessons from the Trzebionka Mining Works (Southern Poland). Soil Biology, 2012, , 327-348.	0.6	17
52	Heavy metal binding properties of Pinus sylvestris mycorrhizas from industrial wastes. Acta Societatis Botanicorum Poloniae, 2014, 71, 253-261.	0.8	17
53	Effects of genetic modifications to flax (Linum usitatissimum) on arbuscular mycorrhiza and plant performance. Mycorrhiza, 2012, 22, 493-499.	1.3	16
54	Changes in vacuolar and mitochondrial motility and tubularity in response to zinc in a Paxillus involutus isolate from a zinc-rich soil. Fungal Genetics and Biology, 2006, 43, 155-163.	0.9	15

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55	Terpenoids and phenolics from Inula ensifolia. Biochemical Systematics and Ecology, 2010, 38, 232-235.	0.6	15
56	Fungal Activity as Determined by Microscale Methods with Special Emphasis on Interactions with Heavy Metals. Mycology, 2005, , 287-305.	0.5	13
57	Antimicrobial Properties of Silver Cations Substituted to Faujasite Mineral. Nanomaterials, 2017, 7, 240.	1.9	12
58	Symbiotic microbes of Saxifraga stellaris ssp. alpigena from the copper creek of Schwarzwand (Austrian Alps) enhance plant tolerance to copper. Chemosphere, 2019, 228, 183-194.	4.2	12
59	Arbuscular mycorrhiza of Arnica montana under field conditionsâ€"conventional and molecular studies. Mycorrhiza, 2010, 20, 551-557.	1.3	11
60	Caesium inhibits the colonization of Medicago truncatula by arbuscular mycorrhizal fungi. Journal of Environmental Radioactivity, 2015, 141, 57-61.	0.9	11
61	Incidence, Identification, and Mycoparasitic Activity of ClonostachysÂ« epichloe, a Hyperparasite of the Fungal Endophyte EpichloÃ« typhina. Plant Disease, 2018, 102, 1973-1980.	0.7	11
62	Biotization of highbush blueberry with ericoid mycorrhizal and endophytic fungi improves plant growth and vitality. Applied Microbiology and Biotechnology, 2022, 106, 4775-4786.	1.7	11
63	Fungi as deterioration agents of historic glass plate negatives of Brandys family collection. International Biodeterioration and Biodegradation, 2016, 115, 133-140.	1.9	10
64	Lipids, hemoproteins and carotenoids in alive Rhodotorula mucilaginosa cells under pesticide decomposition â€“ Raman imaging study. Chemosphere, 2016, 164, 1-6.	4.2	9
65	Metal Tolerant Mycorrhizal Plants: A Review from the Perspective on Industrial Waste in Temperate Region. , 2010, , 257-276.		9
66	Mycorrhizal fungi modify element distribution in gametophytes and sporophytes of a fern Pellaea viridis from metaliferous soils. Chemosphere, 2013, 92, 1267-1273.	4.2	8
67	Effect of EpichloÃ« typhina fungal endophyte on the diversity and incidence of other fungi in Puccinellia distans wild grass seeds. Flora: Morphology, Distribution, Functional Ecology of Plants, 2017, 228, 60-64.	0.6	8
68	Expansion of a holoparasitic plant, Orobanche lutea (Orobanchaceae), in post-industrial areas - a possible Zn effect. Science of the Total Environment, 2018, 639, 714-724.	3.9	8
69	Elemental composition of Physarum compressum Alb. et Schw. sporocarps and their structures cultivated on rabbit dung and agar substrates. Microscopy Research and Technique, 2010, 73, 1134-1142.	1.2	7
70	Extraordinary Multi-Organismal Interactions Involving Bacteriophages, Bacteria, Fungi, and Rotifers: Quadruple Microbial Trophic Network in Water Droplets. International Journal of Molecular Sciences, 2021, 22, 2178.	1.8	7
71	Comparative study of elongated and globose Woronin bodies using electron energy loss spectroscopy (EELS) and imaging (ESI). Mycological Research, 1993, 97, 1499-1504.	2.5	6
72	Phytohormone based biostimulant combined with plant growth promoting endophytic fungus enhances Ni phytoextraction of Noccaea goesingensis. Science of the Total Environment, 2021, 789, 147950.	3.9	6

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73	Arbuscular mycorrhiza of plants from the Mountain Botanical Garden in Zakopane. Acta Mycologica, 2014, 40, 25-41.	0.3	6
74	Arbuscular mycorrhizal fungi from petroleum-impacted sites in the Polish Carpathians. International Biodeterioration and Biodegradation, 2019, 138, 50-56.	1.9	5
75	Mycorrhiza of Dryopteris carthusiana in southern Poland. Acta Mycologica, 2014, 34, 305-314.	0.3	5
76	Interplay between carotenoids, hemoproteins and the â€œlife bandâ€•origin studied in live Rhodotorula mucilaginosa cells by means of Raman microimaging. Analyst, The, 2015, 140, 1809-1813.	1.7	4
77	Microbes of XVI century Arrases of Krakow Royal Castle. Microbiological Research, 2020, 238, 126485.	2.5	4
78	Paper material containing Ag cations immobilised in faujasite: synthesis, characterisation and antibacterial effects. Cellulose, 2018, 25, 1353-1364.	2.4	3
79	Cooling effect of fungal stromata in the Dactylis-EpichloÃ«-Botanophila symbiosis. Communicative and Integrative Biology, 2021, 14, 151-157.	0.6	3
80	The influence of industrial dusts on the mycorrhizal status of plants in Pino-Quercetum forest. Agriculture, Ecosystems and Environment, 1990, 28, 529-533.	2.5	2
81	Transcriptome Response of Metallicolous and a Non-Metallicolous Ecotypes of Noccaea goesingensis to Nickel Excess. Plants, 2020, 9, 951.	1.6	2
82	Chapter 29 Mycorrhizal Fungi and Accompanying Microorganisms in Improving Phytoremediation Techniques. Mycology, 2017, , 419-432.	0.5	2
83	Symbiosis research, technology, and education: Proceedings of the 6th International Symbiosis Society Congress held in Madison Wisconsin, USA, August 2009. Symbiosis, 2010, 51, 1-12.	1.2	1
84	Monte Carlo Simulation to Determine Geometry Effects on Quantitative X-ray Microanalysis in Plant Cell Walls Using Gelatin Standards. AIP Conference Proceedings, 2010, , .	0.3	1
85	Mycology: Protein Control of Fungal Nanoparticle Formation. Current Biology, 2021, 31, R67-R69.	1.8	0