Fayuan Wang

List of Publications by Citations

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69 papers	2,618 citations	28 h-index	50 g-index
78 ext. papers	3,636 ext. citations	5.9 avg, IF	5.75 L-index

#	Paper	IF	Citations
69	Adsorption of cadmium (II) ions from aqueous solution by a new low-cost adsorbent--bamboo charcoal. *Journal of Hazardous Materials*, **2010**, 177, 300-6	12.8	303
68	Effects of arbuscular mycorrhizal inoculation and biochar amendment on maize growth, cadmium uptake and soil cadmium speciation in Cd-contaminated soil. *Chemosphere*, **2018**, 194, 495-503	8.4	168
67	Foliar application with nano-silicon alleviates Cd toxicity in rice seedlings. *Environmental Science and Pollution Research*, **2015**, 22, 2837-45	5.1	159
66	Arbuscular mycorrhizae alleviate negative effects of zinc oxide nanoparticle and zinc accumulation in maize plants--A soil microcosm experiment. *Chemosphere*, **2016**, 147, 88-97	8.4	145
65	Interactions of microplastics and cadmium on plant growth and arbuscular mycorrhizal fungal communities in an agricultural soil. *Chemosphere*, **2020**, 254, 126791	8.4	114
64	Simultaneous removal of 2,4-dichlorophenol and Cd from soils by electrokinetic remediation combined with activated bamboo charcoal. *Journal of Hazardous Materials*, **2010**, 176, 715-20	12.8	92
63	Heavy metal uptake by arbuscular mycorrhizas of Elsholtzia splendens and the potential for phytoremediation of contaminated soil. *Plant and Soil*, **2005**, 269, 225-232	4.2	92
62	Arbuscular mycorrhizal status of wild plants in saline-alkaline soils of the Yellow River Delta. *Mycorrhiza*, **2004**, 14, 133-7	3.9	91
61	Adsorption characteristics of cadmium onto microplastics from aqueous solutions. *Chemosphere*, **2019**, 235, 1073-1080	8.4	87
60	Role of microbial inoculation and chitosan in phytoextraction of Cu, Zn, Pb and Cd by Elsholtzia splendens--a field case. *Environmental Pollution*, **2007**, 147, 248-55	9.3	74
59	Effects of arbuscular mycorrhizal inoculation on the growth of Elsholtzia splendens and Zea mays and the activities of phosphatase and urease in a multi-metal-contaminated soil under unsterilized conditions. *Applied Soil Ecology*, **2006**, 31, 110-119	5	74
58	Occurrence of arbuscular mycorrhizal fungi in mining-impacted sites and their contribution to ecological restoration: Mechanisms and applications. *Critical Reviews in Environmental Science and Technology*, **2017**, 47, 1901-1957	11.1	73
57	Microplastics influence the adsorption and desorption characteristics of Cd in an agricultural soil. *Journal of Hazardous Materials*, **2020**, 388, 121775	12.8	67
56	Heavy Metal Accumulation in Different Rice Cultivars as Influenced by Foliar Application of Nano-silicon. *Water, Air, and Soil Pollution*, **2016**, 227, 1	2.6	60
55	Bioavailability of Zn in ZnO nanoparticle-spiked soil and the implications to maize plants. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	57
54	Inoculation with arbuscular mycorrhizal fungus Acaulospora mellea decreases Cu phytoextraction by maize from Cu-contaminated soil. *Pedobiologia*, **2007**, 51, 99-109	1.7	57
53	Effect of eco-remediation using planted floating bed system on nutrients and heavy metals in urban river water and sediment: a field study in China. *Science of the Total Environment*, **2014**, 485-486, 596-603	10.2	49

52	Effect of arbuscular mycorrhizal fungal inoculation on heavy metal accumulation of maize grown in a naturally contaminated soil. *International Journal of Phytoremediation*, **2007**, 9, 345-53	3.9	47
51	An improved preparation of graphene supported ultrafine ruthenium (0) NPs: Very active and durable catalysts for H2 generation from methanolysis of ammonia borane. *International Journal of Hydrogen Energy*, **2015**, 40, 10856-10866	6.7	43
50	Effects of AM Inoculation and Organic Amendment, Alone or in Combination, on Growth, P Nutrition, and Heavy-Metal Uptake of Tobacco in Pb-Cd-Contaminated Soil. *Journal of Plant Growth Regulation*, **2012**, 31, 549-559	4.7	43
49	Selection of appropriate host plants used in trap culture of arbuscular mycorrhizal fungi. *Mycorrhiza* , **2003**, 13, 123-7	3.9	40
48	Inoculations with arbuscular mycorrhizal fungi increase vegetable yields and decrease phoxim concentrations in carrot and green onion and their soils. *PLoS ONE*, **2011**, 6, e16949	3.7	35
47	A highly efficient heterogeneous catalyst of Ru/MMT: Preparation, characterization, and evaluation of catalytic effect. *Applied Catalysis B: Environmental*, **2013**, 140-141, 115-124	21.8	34
46	Contribution of AM inoculation and cattle manure to lead and cadmium phytoremediation by tobacco plants. *Environmental Sciences: Processes and Impacts*, **2013**, 15, 794-801	4.3	33
45	Combined effects of ZnO NPs and Cd on sweet sorghum as influenced by an arbuscular mycorrhizal fungus. *Chemosphere*, **2018**, 209, 421-429	8.4	31
44	Arbuscular mycorrhizal fungal community structure and diversity in response to long-term fertilization: a field case from China. *World Journal of Microbiology and Biotechnology*, **2011**, 27, 67-74	4.4	31
43	Effects of Co-Contamination of Microplastics and Cd on Plant Growth and Cd Accumulation. *Toxics*, **2020**, 8,	4.7	30
42	Adsorption of 2,4-dichlorophenol from Aqueous Solution by a New Low-Cost Adsorbent □Activated Bamboo Charcoal. *Separation Science and Technology*, **2010**, 45, 2329-2336	2.5	28
41	Effects of microplastics on soil properties: Current knowledge and future perspectives. *Journal of Hazardous Materials*, **2021**, 424, 127531	12.8	28
40	Uptake and translocation of nano/microplastics by rice seedlings: Evidence from a hydroponic experiment. *Journal of Hazardous Materials*, **2022**, 421, 126700	12.8	28
39	Decreased ZnO nanoparticle phytotoxicity to maize by arbuscular mycorrhizal fungus and organic phosphorus. *Environmental Science and Pollution Research*, **2018**, 25, 23736-23747	5.1	27
38	H□O□s Involved in the Metallothionein-Mediated Rice Tolerance to Copper and Cadmium Toxicity. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	27
37	Effects of microplastics on plant growth and arbuscular mycorrhizal fungal communities in a soil spiked with ZnO nanoparticles. *Soil Biology and Biochemistry*, **2021**, 155, 108179	7.5	25
36	Microplastics change soil properties, heavy metal availability and bacterial community in a Pb-Zn-contaminated soil. *Journal of Hazardous Materials*, **2022**, 424, 127364	12.8	25
35	Arbuscular Mycorrhiza Enhances Biomass Production and Salt Tolerance of Sweet Sorghum. *Microorganisms*, **2019**, 7,	4.9	23

34	Diversity and distribution of arbuscular mycorrhizal fungi along altitudinal gradients in Mount Taibai of the Qinling Mountains. *Canadian Journal of Microbiology*, **2014**, 60, 811-8	3.2	23
33	Evaluating phytotoxicity of bare and starch-stabilized zero-valent iron nanoparticles in mung bean. *Chemosphere*, **2019**, 236, 124336	8.4	22
32	Removal of Chromium from a Contaminated Soil Using Oxalic Acid, Citric Acid, and Hydrochloric Acid: Dynamics, Mechanisms, and Concomitant Removal of Non-Targeted Metals. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	20
31	Removal of Cr (VI) from Simulated and Leachate Wastewaters by Bentonite-Supported Zero-Valent Iron Nanoparticles. *International Journal of Environmental Research and Public Health*, **2018**, 15,	4.6	18
30	Remediation of Cr(VI)-Contaminated Soil by Nano-Zero-Valent Iron in Combination with Biochar or Humic Acid and the Consequences for Plant Performance. *Toxics*, **2020**, 8,	4.7	15
29	Arbuscular Mycorrhizal Fungi Improve the Performance of Sweet Sorghum Grown in a Mo-Contaminated Soil. *Journal of Fungi (Basel, Switzerland)*, **2020**, 6,	5.6	14
28	Benefits of arbuscular mycorrhizal fungi in reducing organic contaminant residues in crops: Implications for cleaner agricultural production. *Critical Reviews in Environmental Science and Technology*, **2020**, 50, 1580-1612	11.1	14
27	The worldwide leaf economic spectrum traits are closely linked with mycorrhizal traits. *Fungal Ecology*, **2020**, 43, 100877	4.1	13
26	Effects of Soil Amendments on Heavy Metal Immobilization and Accumulation by Maize Grown in a Multiple-Metal-Contaminated Soil and Their Potential for Safe Crop Production. *Toxics*, **2020**, 8,	4.7	12
25	Arbuscular mycorrhizal fungi associated with tree peony in 3 geographic locations in China. *Turk Tarim Ve Ormancilik Dergisi/Turkish Journal of Agriculture and Forestry*, **2013**, 37, 726-733	2.2	11
24	Dynamics of phoxim residues in green onion and soil as influenced by arbuscular mycorrhizal fungi. *Journal of Hazardous Materials*, **2011**, 185, 112-6	12.8	10
23	EXPLOITATION OF PHOSPHORUS PATCHES WITH DIFFERENT PHOSPHORUS ENRICHMENT BY THREE ARBUSCULAR MYCORRHIZAL FUNGI. *Journal of Plant Nutrition*, **2011**, 34, 1096-1106	2.3	10
22	Phosphorus fertilization and mycorrhizal colonization change silver nanoparticle impacts on maize. *Ecotoxicology*, **2021**, 30, 118-129	2.9	9
21	Arbuscular mycorrhizal inoculation increases molybdenum accumulation but decreases molybdenum toxicity in maize plants grown in polluted soil.. *RSC Advances*, **2018**, 8, 37069-37076	3.7	9
20	Contribution of Nano-Zero-Valent Iron and Arbuscular Mycorrhizal Fungi to Phytoremediation of Heavy Metal-Contaminated Soil. *Nanomaterials*, **2021**, 11,	5.4	8
19	Interactions between microplastics and soil fauna: A critical review. *Critical Reviews in Environmental Science and Technology*,1-33	11.1	8
18	Foliar stoichiometry under different mycorrhizal types in relation to temperature and precipitation in grassland. *Journal of Plant Ecology*, **2013**, 6, 270-276	1.7	7
17	Phytotoxicity of iron-based materials in mung bean: Seed germination tests. *Chemosphere*, **2020**, 251, 126432	8.4	6

16	Quinone profiles of microbial communities in sediments of Haihe River-Bohai Bay as influenced by heavy metals and environmental factors. *Environmental Monitoring and Assessment*, **2011**, 176, 157-67	3.1	6
15	Arbuscular Mycorrhizal Fungi Enhance Plant Diversity, Density and Productivity of Spring Ephemeral Community in Desert Ecosystem. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, **2017**, 45, 301-307	1.2	4
14	Effects of microplastics and carbon nanotubes on soil geochemical properties and bacterial communities.. *Journal of Hazardous Materials*, **2022**, 433, 128826	12.8	4
13	Alterations of Arbuscular Mycorrhizal Fungal Diversity in Soil with Elevation in Tropical Forests of China. *Diversity*, **2019**, 11, 181	2.5	3
12	Spatial variation of arbuscular mycorrhizal fungi in two vegetation types in Gurbantonggut Desert. *Contemporary Problems of Ecology*, **2013**, 6, 455-464	0.8	3
11	Mycorrhizal relationship in lupines: a review. *Legume Research*, **2017**, 40,	1	3
10	Ecotoxicological effects of polyethylene microplastics and ZnO nanoparticles on earthworm Eisenia fetida. *Applied Soil Ecology*, **2022**, 176, 104469	5	3
9	Identification of Cu-binding proteins in embryos of germinating rice in response to Cu toxicity. *Acta Physiologiae Plantarum*, **2018**, 40, 1	2.6	2
8	Photocatalytic strategy to mitigate microplastic pollution in aquatic environments: Promising catalysts, efficiencies, mechanisms, and ecological risks. *Critical Reviews in Environmental Science and Technology*,1-23	11.1	2
7	Arbuscular Mycorrhizas and Ecosystem Restoration **2017**, 245-292		1
6	Forest soil autotrophic and heterotrophic respiration under different mycorrhizal strategies and their responses to temperature and precipitation. *Contemporary Problems of Ecology*, **2014**, 7, 32-38	0.8	1
5	Response of Arbuscular Mycorrhizal Fungi to Simulated Climate Changes by Reciprocal Translocation in Tibetan Plateau. *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, **2015**, 43, 488-493	1.2	1
4	Response of soil respiration under different mycorrhizal strategies to precipitation and temperature. *Journal of Soil Science and Plant Nutrition*, **2012**, 0-0	3.2	1
3	Glomus caledonium spores can be occupied byGlomus microaggregatum spores. *Annals of Microbiology*, **2009**, 59, 693-697	3.2	1
2	Hexavalent chromium removal by a resistant strain ZY-2009. *Environmental Technology (United Kingdom)*, **2021**, 1-28	2.6	1
1	Research on the Correlation between Performance and Compensation of Executive and Staff in Agricultural Enterprises. *Communications in Computer and Information Science*, **2011**, 209-214	0.3	