Dong Zhu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76 papers	2,147 citations	25 h-index	44 g-index
81 ext. papers	3,235 ext. citations	9.3 avg, IF	5.68 L-index

#	Paper	IF	Citations
76	Exposure of soil collembolans to microplastics perturbs their gut microbiota and alters their isotopic composition. *Soil Biology and Biochemistry*, **2018**, 116, 302-310	7.5	260
75	Exposure to nanoplastics disturbs the gut microbiome in the soil oligochaete Enchytraeus crypticus. *Environmental Pollution*, **2018**, 239, 408-415	9.3	161
74	Effects of polyethylene microplastics on the gut microbial community, reproduction and avoidance behaviors of the soil springtail, Folsomia candida. *Environmental Pollution*, **2019**, 247, 890-897	9.3	121
73	Rare microbial taxa as the major drivers of ecosystem multifunctionality in long-term fertilized soils. *Soil Biology and Biochemistry*, **2020**, 141, 107686	7.5	102
72	Antibiotics Disturb the Microbiome and Increase the Incidence of Resistance Genes in the Gut of a Common Soil Collembolan. *Environmental Science & Technology*, **2018**, 52, 3081-3090	10.3	93
71	Trophic predator-prey relationships promote transport of microplastics compared with the single Hypoaspis aculeifer and Folsomia candida. *Environmental Pollution*, **2018**, 235, 150-154	9.3	88
70	Soil biota, antimicrobial resistance and planetary health. *Environment International*, **2019**, 131, 105059	12.9	86
69	Exposure to microplastics lowers arsenic accumulation and alters gut bacterial communities of earthworm Metaphire californica. *Environmental Pollution*, **2019**, 251, 110-116	9.3	84
68	Effect of biochar amendment on the alleviation of antibiotic resistance in soil and phyllosphere of Brassica chinensis L.. *Soil Biology and Biochemistry*, **2018**, 119, 74-82	7.5	65
67	Long-term application of organic fertilization causes the accumulation of antibiotic resistome in earthworm gut microbiota. *Environment International*, **2019**, 124, 145-152	12.9	62
66	Geographical variation in arsenic, cadmium, and lead of soils and rice in the major rice producing regions of China. *Science of the Total Environment*, **2019**, 677, 373-381	10.2	51
65	Exposure of a Soil Collembolan to Ag Nanoparticles and AgNO Disturbs Its Associated Microbiota and Lowers the Incidence of Antibiotic Resistance Genes in the Gut. *Environmental Science & Technology*, **2018**, 52, 12748-12756	10.3	50
64	Spatial and temporal distribution of antibiotic resistomes in a peri-urban area is associated significantly with anthropogenic activities. *Environmental Pollution*, **2018**, 235, 525-533	9.3	46
63	The fungicide azoxystrobin perturbs the gut microbiota community and enriches antibiotic resistance genes in Enchytraeus crypticus. *Environment International*, **2019**, 131, 104965	12.9	41
62	Impact of Wastewater Treatment on the Prevalence of Integrons and the Genetic Diversity of Integron Gene Cassettes. *Applied and Environmental Microbiology*, **2018**, 84,	4.8	38
61	Adsorbed Sulfamethoxazole Exacerbates the Effects of Polystyrene (~2 μm) on Gut Microbiota and the Antibiotic Resistome of a Soil Collembolan. *Environmental Science & Technology*, **2019**, 53, 12823-12834	10.3	38
60	Trophic Transfer of Antibiotic Resistance Genes in a Soil Detritus Food Chain. *Environmental Science & Technology*, **2019**, 53, 7770-7781	10.3	36

59	Effects of Arsenic on Gut Microbiota and Its Biotransformation Genes in Earthworm Metaphire sieboldi. *Environmental Science & Technology*, **2019**, 53, 3841-3849	10.3	35
58	Phyllosphere of staple crops under pig manure fertilization, a reservoir of antibiotic resistance genes. *Environmental Pollution*, **2019**, 252, 227-235	9.3	34
57	Application of biosolids drives the diversity of antibiotic resistance genes in soil and lettuce at harvest. *Soil Biology and Biochemistry*, **2018**, 122, 131-140	7.5	34
56	Heavy metal-induced co-selection of antibiotic resistance genes in the gut microbiota of collembolans. *Science of the Total Environment*, **2019**, 683, 210-215	10.2	33
55	Does nano silver promote the selection of antibiotic resistance genes in soil and plant?. *Environment International*, **2019**, 128, 399-406	12.9	32
54	Land Use Influences Antibiotic Resistance in the Microbiome of Soil Collembolans Orchesellides sinensis. *Environmental Science & Technology*, **2018**, 52, 14088-14098	10.3	30
53	Dysbiosis in the Gut Microbiota of Soil Fauna Explains the Toxicity of Tire Tread Particles. *Environmental Science & Technology*, **2020**, 54, 7450-7460	10.3	28
52	Does reduced usage of antibiotics in livestock production mitigate the spread of antibiotic resistance in soil, earthworm guts, and the phyllosphere?. *Environment International*, **2020**, 136, 105359	12.9	26
51	Effects of Earthworms on the Microbiomes and Antibiotic Resistomes of Detritus Fauna and Phyllospheres. *Environmental Science & Technology*, **2020**, 54, 6000-6008	10.3	25
50	Biological transfer of dietary cadmium in relation to nitrogen transfer and 15N fractionation in a soil collembolan-predatory mite food chain. *Soil Biology and Biochemistry*, **2016**, 101, 207-216	7.5	25
49	Arsenic and Sulfamethoxazole Increase the Incidence of Antibiotic Resistance Genes in the Gut of Earthworm. *Environmental Science & Technology*, **2019**, 53, 10445-10453	10.3	23
48	Distinct effects of struvite and biochar amendment on the class 1 integron antibiotic resistance gene cassettes in phyllosphere and rhizosphere. *Science of the Total Environment*, **2018**, 631-632, 668-676	10.2	22
47	Estimating cadmium availability to the hyperaccumulator Sedum plumbizincicola in a wide range of soil types using a piecewise function. *Science of the Total Environment*, **2018**, 637-638, 1342-1350	10.2	21
46	Mineral and organic fertilization alters the microbiome of a soil nematode Dorylaimus stagnalis and its resistome. *Science of the Total Environment*, **2019**, 680, 70-78	10.2	20
45	Long-Term Fertilization History Alters Effects of Microplastics on Soil Properties, Microbial Communities, and Functions in Diverse Farmland Ecosystem. *Environmental Science & Technology*, **2021**, 55, 4658-4668	10.3	19
44	Effects of long-term fertilization on the associated microbiota of soil collembolan. *Soil Biology and Biochemistry*, **2019**, 130, 141-149	7.5	19
43	Ecotoxicity of cadmium in a soil collembolan-predatory mite food chain: Can we use the N labeled litter addition method to assess soil functional change?. *Environmental Pollution*, **2016**, 219, 37-46	9.3	18
42	Exposure to tetracycline perturbs the microbiome of soil oligochaete Enchytraeus crypticus. *Science of the Total Environment*, **2019**, 654, 643-650	10.2	17

41	Effects of biochar amendments on antibiotic resistome of the soil and collembolan gut. *Journal of Hazardous Materials*, **2019**, 377, 186-194	12.8	16
40	Soil oxytetracycline exposure alters the microbial community and enhances the abundance of antibiotic resistance genes in the gut of Enchytraeus crypticus. *Science of the Total Environment*, **2019**, 673, 357-366	10.2	16
39	Effects of diet on gut microbiota of soil collembolans. *Science of the Total Environment*, **2019**, 676, 197-205	10.2	15
38	Agricultural activities affect the pattern of the resistome within the phyllosphere microbiome in peri-urban environments. *Journal of Hazardous Materials*, **2020**, 382, 121068	12.8	15
37	Species-specific response of the soil collembolan gut microbiome and resistome to soil oxytetracycline pollution. *Science of the Total Environment*, **2019**, 668, 1183-1190	10.2	14
36	Microbial functional traits in phyllosphere are more sensitive to anthropogenic disturbance than in soil. *Environmental Pollution*, **2020**, 265, 114954	9.3	13
35	Refinement of Methodology for Cadmium Determination in Soil Micro-Arthropod Tissues. *Pedosphere*, **2017**, 27, 491-501	5	12
34	The gut microbiota of soil organisms show species-specific responses to liming. *Science of the Total Environment*, **2019**, 659, 715-723	10.2	12
33	Soil plastispheres as hotpots of antibiotic resistance genes and potential pathogens. *ISME Journal*, **2021**,	11.9	12
32	Deciphering Potential Roles of Earthworms in Mitigation of Antibiotic Resistance in the Soils from Diverse Ecosystems. *Environmental Science & Technology*, **2021**, 55, 7445-7455	10.3	11
31	The driving factors of nematode gut microbiota under long-term fertilization. *FEMS Microbiology Ecology*, **2020**, 96,	4.3	9
30	Host identity determines plant associated resistomes. *Environmental Pollution*, **2020**, 258, 113709	9.3	9
29	Antibiotic Resistance in the Collembolan Gut Microbiome Accelerated by the Nonantibiotic Drug Carbamazepine. *Environmental Science & Technology*, **2020**, 54, 10754-10762	10.3	9
28	Repeated phytoextraction of metal contaminated calcareous soil by hyperaccumulator. *International Journal of Phytoremediation*, **2018**, 20, 1243-1249	3.9	9
27	Long-Term Fertilization Shapes the Putative Electrotrophic Microbial Community in Paddy Soils Revealed by Microbial Electrosynthesis Systems. *Environmental Science & Technology*, **2021**, 55, 3430-3441	10.3	8
26	Exposure of CuO nanoparticles and their metal counterpart leads to change in the gut microbiota and resistome of collembolans. *Chemosphere*, **2020**, 258, 127347	8.4	7
25	Effects of nano- or microplastic exposure combined with arsenic on soil bacterial, fungal, and protistan communities. *Chemosphere*, **2021**, 281, 130998	8.4	7
24	Rejoinder to Comments on Zhu et al. (2018) Exposure of soil collembolans to microplastics perturbs their gut microbiota and alters their isotopic composition[Soil Biol. Biochem. 116 302310]. *Soil Biology and Biochemistry*, **2018**, 124, 275-276	7.5	5

23	Agricultural land-use change and rotation system exert considerable influences on the soil antibiotic resistome in Lake Tai Basin. *Science of the Total Environment*, **2021**, 771, 144848	10.2	5
22	Exposure to heavy metal and antibiotic enriches antibiotic resistant genes on the tire particles in soil. *Science of the Total Environment*, **2021**, 792, 148417	10.2	5
21	Insights into the roles of fungi and protist in the giant panda gut microbiome and antibiotic resistome. *Environment International*, **2021**, 155, 106703	12.9	5
20	Antibiotic resistance genes in the soil ecosystem and planetary health: Progress and prospect. *Scientia Sinica Vitae*, **2019**, 49, 1652-1663	1.4	4
19	Combined pollution of arsenic and Polymyxin B enhanced arsenic toxicity and enriched ARG abundance in soil and earthworm gut microbiotas. *Journal of Environmental Sciences*, **2021**, 109, 171-180	6.4	4
18	Species-specific effects of arsenic on the soil collembolan gut microbiota. *Ecotoxicology and Environmental Safety*, **2019**, 183, 109538	7	3
17	Collembolans accelerate the dispersal of antibiotic resistance genes in the soil ecosystem. *Soil Ecology Letters*, **2019**, 1, 14-21	2.7	3
16	The ecological clusters of soil organisms drive the ecosystem multifunctionality under long-term fertilization.. *Environment International*, **2022**, 161, 107133	12.9	3
15	Extractable additives in microplastics: A hidden threat to soil fauna. *Environmental Pollution*, **2021**, 294, 118647	9.3	3
14	Responses of earthworm Metaphire vulgaris gut microbiota to arsenic and nanoplastics contamination. *Science of the Total Environment*, **2022**, 806, 150279	10.2	3
13	Seasonal change is a major driver of soil resistomes at a watershed scale. *ISME Communications*, **2021**, 1,		2
12	Testosterone amendment alters metabolite profiles of the soil microbial community. *Environmental Pollution*, **2021**, 272, 115928	9.3	2
11	Insights into the Role of the Fungal Community in Variations of the Antibiotic Resistome in the Soil Collembolan Gut Microbiome. *Environmental Science & Technology*, **2021**, 55, 11784-11794	10.3	2
10	Trophic level drives the host microbiome of soil invertebrates at a continental scale. *Microbiome*, **2021**, 9, 189	16.6	2
9	Arsenic bioaccumulation in the soil fauna alters its gut microbiome and microbial arsenic biotransformation capacity. *Journal of Hazardous Materials*, **2021**, 417, 126018	12.8	2
8	Diverse antibiotic resistance genes and potential pathogens inhabit in the phyllosphere of fresh vegetables.. *Science of the Total Environment*, **2022**, 815, 152851	10.2	1
7	Mite gut microbiome and resistome exhibited species-specific and dose-dependent effect in response to oxytetracycline exposure. *Science of the Total Environment*, **2021**, 807, 150802	10.2	1
6	How can fertilization regimes and durations shape earthworm gut microbiota in a long-term field experiment?. *Ecotoxicology and Environmental Safety*, **2021**, 224, 112643	7	1

5	Tire wear particles: An emerging threat to soil health. *Critical Reviews in Environmental Science and Technology*,1-19	11.1	1
4	Effects of soil protists on the antibiotic resistome under long term fertilization. *Environmental Pollution*, **2022**, 307, 119516	9.3	1
3	GLOBAL TRENDS AND PERFORMANCES OF STUDIES ON ANTIBIOTIC RESISTANCE GENES. *Environmental Engineering and Management Journal*, **2020**, 19, 485-495	0.6	0
2	Earthworms reduce the dissemination potential of antibiotic resistance genes by changing bacterial co-occurrence patterns in soil.. *Journal of Hazardous Materials*, **2021**, 426, 128127	12.8	0
1	Dispersal of antibiotic resistance genes in an agricultural influenced multi-branch river network.. *Science of the Total Environment*, **2022**, 830, 154739	10.2	0