

Shahla Hosseini Bai

List of Publications by Year in descending order

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Version: 2024-02-01

105
papers

4,063
citations

159525

30
h-index

133188

59
g-index

105
all docs

105
docs citations

105
times ranked

4393
citing authors

#	ARTICLE	IF	CITATIONS
1	Biochar compound fertilisers increase plant potassium uptake 2 years after application without additional organic fertiliser. <i>Environmental Science and Pollution Research</i> , 2022, 29, 7170-7184.	2.7	7
2	Pollen limitation and xenia effects in a cultivated mass-flowering tree, <i>Macadamia integrifolia</i> (Proteaceae). <i>Annals of Botany</i> , 2022, 129, 135-146.	1.4	16
3	Leaf litter species affects decomposition rate and nutrient release in a cocoa plantation. <i>Agriculture, Ecosystems and Environment</i> , 2022, 324, 107705.	2.5	15
4	Combined effects of biochar and fertilizer applications on yield: A review and meta-analysis. <i>Science of the Total Environment</i> , 2022, 808, 152073.	3.9	75
5	Linking <i>Phyllostachys edulis</i> (moso bamboo) growth with soil nitrogen cycling and microbial community of plant-soil system: Effects of plant age and niche differentiation. <i>Industrial Crops and Products</i> , 2022, 177, 114520.	2.5	13
6	Boron Effects on Fruit Set, Yield, Quality and Paternity of Macadamia. <i>Agronomy</i> , 2022, 12, 684.	1.3	10
7	How land-use change affects soil respiration in an alpine agro-pastoral ecotone. <i>Catena</i> , 2022, 214, 106291.	2.2	7
8	Strain <i>Klebsiella</i> ZP-2 inoculation activating soil nutrient supply and altering soil phosphorus cycling. <i>Journal of Soils and Sediments</i> , 2022, 22, 2146-2157.	1.5	3
9	Biomass and mineral nutrient partitioning among self-pollinated and cross-pollinated fruit on the same strawberry plant. <i>PLoS ONE</i> , 2022, 17, e0269485.	1.1	3
10	Relationships among phosphatase activities, functional genes and soil properties following amendment with the bacterium <i>Burkholderia</i> sp. ZP-4. <i>Land Degradation and Development</i> , 2022, 33, 3427-3437.	1.8	2
11	Boron Effects on Fruit Set, Yield, Quality and Paternity of Hass Avocado. <i>Agronomy</i> , 2022, 12, 1479.	1.3	4
12	Soil-plant nitrogen isotope composition and nitrogen cycling after biochar applications. <i>Environmental Science and Pollution Research</i> , 2021, 28, 6684-6690.	2.7	12
13	Quality estimation of nuts using deep learning classification of hyperspectral imagery. <i>Computers and Electronics in Agriculture</i> , 2021, 180, 105868.	3.7	32
14	Translocation and population establishment of <i>Schoenus scabripes</i> (Cyperaceae). <i>Australian Journal of Botany</i> , 2021, 69, 225.	0.3	2
15	Micropropagation of the therapeutic-honey plants <i>Leptospermum polygalifolium</i> and <i>L. scoparium</i> (Myrtaceae). <i>Australian Journal of Botany</i> , 2021, 69, 310.	0.3	5
16	Biochar co-applied with organic amendments increased soil-plant potassium and root biomass but not crop yield. <i>Journal of Soils and Sediments</i> , 2021, 21, 784-798.	1.5	18
17	A global meta-analysis shows soil nitrogen pool increases after revegetation of riparian zones. <i>Journal of Soils and Sediments</i> , 2021, 21, 665-677.	1.5	11
18	Effects of biochar, compost, and biochar-compost on soil total nitrogen and available phosphorus concentrations in a corn field in Papua New Guinea. <i>Environmental Science and Pollution Research</i> , 2021, 28, 27411-27419.	2.7	26

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19	Adventitious rooting of cuttings from the therapeutic honey plants, <i>Leptospermum polygalifolium</i> and <i>L. scoparium</i> . <i>Rhizosphere</i> , 2021, 17, 100306.	1.4	3
20	Comparison of Hyperspectral Imaging and Near-Infrared Spectroscopy to Determine Nitrogen and Carbon Concentrations in Wheat. <i>Remote Sensing</i> , 2021, 13, 1128.	1.8	24
21	An automated non-destructive prediction of peroxide value and free fatty acid level in mixed nut samples. <i>LWT - Food Science and Technology</i> , 2021, 143, 110893.	2.5	9
22	A Performance Evaluation of Vis/NIR Hyperspectral Imaging to Predict Curcumin Concentration in Fresh Turmeric Rhizomes. <i>Remote Sensing</i> , 2021, 13, 1807.	1.8	9
23	Antagonistic interaction between biochar and nitrogen addition on soil greenhouse gas fluxes: A global synthesis. <i>GCB Bioenergy</i> , 2021, 13, 1636-1648.	2.5	13
24	Effects of Biochar on Pulse C and N Cycling After a Short-term Drought: a Laboratory Study. <i>Journal of Soil Science and Plant Nutrition</i> , 2021, 21, 2815-2825.	1.7	2
25	Cross-pollination affects fruit colour, acidity, firmness and shelf life of self-compatible strawberry. <i>PLoS ONE</i> , 2021, 16, e0256964.	1.1	12
26	Long-term impact of prescribed burning on water use efficiency, biological nitrogen fixation, and tree growth of understory acacia species in a suburban forest ecosystem of subtropical Australia. <i>Journal of Soils and Sediments</i> , 2021, 21, 3620.	1.5	4
27	Mycorrhizal effects on decomposition and soil CO ₂ flux depend on changes in nitrogen availability during forest succession. <i>Journal of Ecology</i> , 2021, 109, 3929-3943.	1.9	11
28	Intensive management of phosphorus fertilization in <i>Camellia oleifera</i> Abel. to minimize phosphorus losses to the environment. <i>Industrial Crops and Products</i> , 2021, 170, 113824.	2.5	2
29	Temperature and precipitation significantly influence the interactions between arbuscular mycorrhizal fungi and diazotrophs in karst ecosystems. <i>Forest Ecology and Management</i> , 2021, 497, 119464.	1.4	21
30	Differential effects of nitrogen vs. phosphorus limitation on terrestrial carbon storage in two subtropical forests: A Bayesian approach. <i>Science of the Total Environment</i> , 2021, 795, 148485.	3.9	9
31	Soil nitrification and nitrogen mineralization responded non-linearly to the addition of wood biochar produced under different pyrolysis temperatures. <i>Journal of Soils and Sediments</i> , 2021, 21, 3813-3824.	1.5	7
32	Responses of microbial function, biomass and heterotrophic respiration, and organic carbon in fir plantation soil to successive nitrogen and phosphorus fertilization. <i>Applied Microbiology and Biotechnology</i> , 2021, 105, 8907-8920.	1.7	2
33	Prediction of macronutrients in plant leaves using chemometric analysis and wavelength selection. <i>Journal of Soils and Sediments</i> , 2020, 20, 249-259.	1.5	23
34	Biological nitrogen fixation by two <i>Acacia</i> species and associated root-nodule bacteria in a suburban Australian forest subjected to prescribed burning. <i>Journal of Soils and Sediments</i> , 2020, 20, 122-132.	1.5	11
35	Short-term application of mulch, roundup and organic herbicides did not affect soil microbial biomass or bacterial and fungal diversity. <i>Chemosphere</i> , 2020, 244, 125436.	4.2	17
36	Biochar amendment boosts photosynthesis and biomass in C ₃ but not C ₄ plants: A global synthesis. <i>GCB Bioenergy</i> , 2020, 12, 605-617.	2.5	46

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37	Soil fungi and fine root biomass mediate drought-induced reductions in soil respiration. <i>Functional Ecology</i> , 2020, 34, 2634-2643.	1.7	29
38	Mineral fertilization and soil depth slightly affected aggregate structures despite significantly altered microbial properties in surface forest soils. <i>Journal of Soils and Sediments</i> , 2020, 20, 3615-3626.	1.5	3
39	Rapid Determination of Nutrient Concentrations in Hass Avocado Fruit by Vis/NIR Hyperspectral Imaging of Flesh or Skin. <i>Remote Sensing</i> , 2020, 12, 3409.	1.8	24
40	Successive mineral nitrogen or phosphorus fertilization alone significantly altered bacterial community rather than bacterial biomass in plantation soil. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 7213-7224.	1.7	12
41	Relationships between Nut Size, Kernel Quality, Nutritional Composition and Levels of Outcrossing in Three Macadamia Cultivars. <i>Plants</i> , 2020, 9, 228.	1.6	20
42	Late-dropping macadamia nuts have reduced shelf life. <i>Scientia Horticulturae</i> , 2020, 268, 109378.	1.7	13
43	Differential effects of drought on nonstructural carbohydrate storage in seedlings and mature trees of four species in a subtropical forest. <i>Forest Ecology and Management</i> , 2020, 469, 118159.	1.4	27
44	Short-term effects of organo-mineral enriched biochar fertiliser on ginger yield and nutrient cycling. <i>Journal of Soils and Sediments</i> , 2019, 19, 668-682.	1.5	33
45	Short-term carbon and nitrogen dynamics in soil, litterfall and canopy of a suburban native forest subjected to prescribed burning in subtropical Australia. <i>Journal of Soils and Sediments</i> , 2019, 19, 3969-3981.	1.5	10
46	Differential response of soil respiration to nitrogen and phosphorus addition in a highly phosphorus-limited subtropical forest, China. <i>Forest Ecology and Management</i> , 2019, 448, 499-508.	1.4	22
47	Minor increases in <i>Phyllostachys edulis</i> (Moso bamboo) biomass despite evident alterations of soil bacterial community structure after phosphorus fertilization alone: Based on field studies at different altitudes. <i>Forest Ecology and Management</i> , 2019, 451, 117561.	1.4	19
48	Plant evolutionary history mainly explains the variance in biomass responses to climate warming at a global scale. <i>New Phytologist</i> , 2019, 222, 1338-1351.	3.5	20
49	The effects of tree spacing regime and tree species composition on mineral nutrient composition of cocoa beans and canarium nuts in 8-year-old cocoa plantations. <i>Environmental Science and Pollution Research</i> , 2019, 26, 22021-22029.	2.7	10
50	Assisted phytoremediation of a co-contaminated soil with biochar amendment: Contaminant removals and bacterial community properties. <i>Geoderma</i> , 2019, 348, 115-123.	2.3	67
51	Nitrogen and carbon cycling associated with litterfall production in monoculture teak and mixed species teak and flueggea stands. <i>Journal of Soils and Sediments</i> , 2019, 19, 1672-1684.	1.5	17
52	Growth and yield of 5 years old teak and flueggea in single and mixed species forestry systems in the Solomon Islands. <i>New Forests</i> , 2019, 50, 629-642.	0.7	6
53	Nutritional quality of almond, canarium, cashew and pistachio and their oil photooxidative stability. <i>Journal of Food Science and Technology</i> , 2019, 56, 792-798.	1.4	34
54	Prediction of soil macro- and micro-elements in sieved and ground air-dried soils using laboratory-based hyperspectral imaging technique. <i>Geoderma</i> , 2019, 340, 70-80.	2.3	51

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55	Differential magnitude of rhizosphere effects on soil aggregation at three stages of subtropical secondary forest successions. <i>Plant and Soil</i> , 2019, 436, 365-380.	1.8	35
56	Automatic Estimation of Soil Biochar Quantity via Hyperspectral Imaging. , 2019, , 1608-1635.		0
57	The effects of short term, long term and reapplication of biochar on soil bacteria. <i>Science of the Total Environment</i> , 2018, 636, 142-151.	3.9	105
58	Transcriptome profiling of lentil (<i>Lens culinaris</i>) through the first 24 hours of <i>Ascochyta lentis</i> infection reveals key defence response genes. <i>BMC Genomics</i> , 2018, 19, 108.	1.2	53
59	Using laboratory-based hyperspectral imaging method to determine carbon functional group distributions in decomposing forest litterfall. <i>Catena</i> , 2018, 167, 18-27.	2.2	22
60	Biochar addition induced the same plant responses as elevated CO ₂ in mine spoil. <i>Environmental Science and Pollution Research</i> , 2018, 25, 1460-1469.	2.7	9
61	Antagonistic effects of nitrification inhibitor 3,4-dimethylpyrazole phosphate and fungicide iprodione on net nitrification in an agricultural soil. <i>Soil Biology and Biochemistry</i> , 2018, 116, 167-170.	4.2	22
62	Evaluating the effects of phytoremediation with biochar additions on soil nitrogen mineralization enzymes and fungi. <i>Environmental Science and Pollution Research</i> , 2018, 25, 23106-23116.	2.7	18
63	Quality and shelf life of tree nuts: A review. <i>Scientia Horticulturae</i> , 2018, 242, 116-126.	1.7	69
64	A non-destructive determination of peroxide values, total nitrogen and mineral nutrients in an edible tree nut using hyperspectral imaging. <i>Computers and Electronics in Agriculture</i> , 2018, 151, 492-500.	3.7	32
65	Technical note: Manipulating interactions between plant stress responses and soil methane oxidation rates. <i>Biogeosciences</i> , 2018, 15, 4125-4129.	1.3	4
66	Drought-induced changes in root biomass largely result from altered root morphological traits: Evidence from a synthesis of global field trials. <i>Plant, Cell and Environment</i> , 2018, 41, 2589-2599.	2.8	112
67	Laboratory-based hyperspectral image analysis for predicting soil carbon, nitrogen and their isotopic compositions. <i>Geoderma</i> , 2018, 330, 254-263.	2.3	41
68	Effects of biochar application on soil greenhouse gas fluxes: a meta-analysis. <i>GCB Bioenergy</i> , 2017, 9, 743-755.	2.5	264
69	The potential of hyperspectral images and partial least square regression for predicting total carbon, total nitrogen and their isotope composition in forest litterfall samples. <i>Journal of Soils and Sediments</i> , 2017, 17, 2091-2103.	1.5	21
70	Effects of shade-tree species and spacing on soil and leaf nutrient concentrations in cocoa plantations at 8 years after establishment. <i>Agriculture, Ecosystems and Environment</i> , 2017, 246, 134-143.	2.5	46
71	Short-term effects of organo-mineral biochar and organic fertilisers on nitrogen cycling, plant photosynthesis, and nitrogen use efficiency. <i>Journal of Soils and Sediments</i> , 2017, 17, 2763-2774.	1.5	39
72	Application of manures to mitigate the harmful effects of electrokinetic remediation of heavy metals on soil microbial properties in polluted soils. <i>Environmental Science and Pollution Research</i> , 2017, 24, 26485-26496.	2.7	15

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73	Assessing the potential of using biochar in mine rehabilitation under elevated atmospheric CO2 concentration. <i>Journal of Soils and Sediments</i> , 2017, 17, 2410-2419.	1.5	6
74	Interactive effects of biochar addition and elevated carbon dioxide concentration on soil carbon and nitrogen pools in mine spoil. <i>Journal of Soils and Sediments</i> , 2017, 17, 2400-2409.	1.5	12
75	Linking potential nitrification rates, nitrogen cycling genes and soil properties after remediating the agricultural soil contaminated with heavy metal and fungicide. <i>Chemosphere</i> , 2017, 184, 892-899.	4.2	35
76	Effects of biochar on soil available inorganic nitrogen: A review and meta-analysis. <i>Geoderma</i> , 2017, 288, 79-96.	2.3	433
77	Grazing intensity significantly affects belowground carbon and nitrogen cycling in grassland ecosystems: a meta-analysis. <i>Global Change Biology</i> , 2017, 23, 1167-1179.	4.2	318
78	Effects of forest thinning on soil-plant carbon and nitrogen dynamics. <i>Plant and Soil</i> , 2017, 411, 437-449.	1.8	48
79	Biochar Production From Agricultural and Forestry Wastes and Microbial Interactions. , 2017, , 443-473.		10
80	Effects of roasting on kernel peroxide value, free fatty acid, fatty acid composition and crude protein content. <i>PLoS ONE</i> , 2017, 12, e0184279.	1.1	27
81	Wood base biochar alters inorganic N. <i>Acta Horticulturae</i> , 2016, , 151-154.	0.1	8
82	Eco-toxicological effects of the avermectin family with a focus on abamectin and ivermectin. <i>Chemosphere</i> , 2016, 154, 204-214.	4.2	155
83	Glyphosate: environmental contamination, toxicity and potential risks to human health via food contamination. <i>Environmental Science and Pollution Research</i> , 2016, 23, 18988-19001.	2.7	264
84	The growth and health of street trees planted in permeable pavements. <i>Acta Horticulturae</i> , 2016, , 77-82.	0.1	1
85	Short-term dynamics of carbon and nitrogen using compost, compost-biochar mixture and organo-mineral biochar. <i>Environmental Science and Pollution Research</i> , 2016, 23, 11267-11278.	2.7	65
86	Interactive effects of global change factors on soil respiration and its components: a meta-analysis. <i>Global Change Biology</i> , 2016, 22, 3157-3169.	4.2	172
87	Do young trees contribute to soil labile carbon and nitrogen recovery?. <i>Journal of Soils and Sediments</i> , 2015, 15, 503-509.	1.5	12
88	Tree Plantation Systems Influence Nitrogen Retention and the Abundance of Nitrogen Functional Genes in the Solomon Islands. <i>Frontiers in Microbiology</i> , 2015, 6, 1439.	1.5	30
89	Peanut shell biochar improves soil properties and peanut kernel quality on a red Ferrosol. <i>Journal of Soils and Sediments</i> , 2015, 15, 2220-2231.	1.5	44
90	Effect of biochar amendment on yield and photosynthesis of peanut on two types of soils. <i>Environmental Science and Pollution Research</i> , 2015, 22, 6112-6125.	2.7	170

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91	Ecophysiological and foliar nitrogen concentration responses of understorey Acacia spp. and Eucalyptus sp. to prescribed burning. Environmental Science and Pollution Research, 2015, 22, 10254-10262.	2.7	10
92	Human footprints in urban forests: implication of nitrogen deposition for nitrogen and carbon storage. Journal of Soils and Sediments, 2015, 15, 1927-1936.	1.5	30
93	The effect of permeable pavements with an underlying base layer on the ecophysiological status of urban trees. Urban Forestry and Urban Greening, 2015, 14, 686-693.	2.3	13
94	Wood biochar increases nitrogen retention in field settings mainly through abiotic processes. Soil Biology and Biochemistry, 2015, 90, 232-240.	4.2	123
95	Soil and foliar nutrient and nitrogen isotope composition ($\delta^{15}N$) at 5 years after poultry litter and green waste biochar amendment in a macadamia orchard. Environmental Science and Pollution Research, 2015, 22, 3803-3809.	2.7	60
96	The impact of mulch type on soil organic carbon and nitrogen pools in a sloping site. Biology and Fertility of Soils, 2014, 50, 37-44.	2.3	40
97	Survival, growth and physiological status of Acacia disparrima and Eucalyptus crebra seedlings with respect to site management practices in Central Queensland, Australia. European Journal of Forest Research, 2014, 133, 165-175.	1.1	12
98	Soil carbon and nitrogen dynamics in the first year following herbicide and scalping in a revegetation trial in south-east Queensland, Australia. Environmental Science and Pollution Research, 2014, 21, 5167-5176.	2.7	7
99	Physiological traits of Acacia concurrens and Eucalyptus crebra with respect to radical site preparation practices in a revegetation trial, south east Queensland, Australia. Journal of Soils and Sediments, 2014, 14, 1107-1115.	1.5	6
100	Changes in $\delta^{15}N$ in a soil-plant system under different biochar feedstocks and application rates. Biology and Fertility of Soils, 2014, 50, 275-283.	2.3	70
101	Ecophysiological status of different growth stage of understorey Acacia leiocalyx and Acacia disparrima in an Australian dry sclerophyll forest subjected to prescribed burning. Journal of Soils and Sediments, 2013, 13, 1378-1385.	1.5	19
102	Effects of pre-planting site management on soil organic matter and microbial community functional diversity in subtropical Australia. Applied Soil Ecology, 2012, 62, 31-36.	2.1	9
103	Appraisal of $\delta^{15}N$ enrichment and $\delta^{15}N$ natural abundance methods for estimating N_2 fixation by understorey Acacia leiocalyx and A. disparima in a native forest of subtropical Australia. Journal of Soils and Sediments, 2012, 12, 653-662.	1.5	23
104	Soil organic matter dynamics and nitrogen availability in response to site preparation and management during revegetation in tropical Central Queensland, Australia. Journal of Soils and Sediments, 2012, 12, 386-395.	1.5	21
105	Automatic Estimation of Soil Biochar Quantity via Hyperspectral Imaging. Advances in Environmental Engineering and Green Technologies Book Series, 0, , 220-247.	0.3	0