Zakaria Solaiman

List of Publications by Year in Descending Order

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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.

91 papers	3,142 citations	32 h-index	55 g-index
97 ext. papers	3,738 ext. citations	4.5 avg, IF	5.5 L-index

#	Paper	IF	Citations
91	Influence of Various Composted Organic Amendments and their Rates of Application on Nitrogen Mineralization and Soil Productivity Using Chinese Cabbage (Brassica rapa L. var. Chinensis) as an Indicator Crop. *Agriculture (Switzerland)*, **2022**, 12, 201	3	1
90	Complementary effect of zoo compost with mineral nitrogen fertilisation increases wheat yield and nutrition in a low-nutrient soil. *Pedosphere*, **2022**, 32, 339-347	5	0
89	Carbon mineralization in subtropical alluvial arable soils amended with sugarcane bagasse and rice husk biochars. *Pedosphere*, **2022**, 32, 475-486	5	1
88	Microbial consortium inoculant increases pasture grasses yield in low-phosphorus soil by influencing root morphology, rhizosphere carboxylate exudation and mycorrhizal colonisation. *Journal of the Science of Food and Agriculture*, **2022**, 102, 540-549	4.3	1
87	Nutrient Release from Vermicompost under Anaerobic Conditions in Two Contrasting Soils of Bangladesh and Its Effect on Wetland Rice Crop. *Agriculture (Switzerland)*, **2022**, 12, 376	3	2
86	Closing the circle for urban food waste anaerobic digestion: The use of digestate and biochar on plant growth in potting soil. *Journal of Cleaner Production*, **2022**, 347, 131071	10.3	0
85	Industrial Hemp (Cannabis sativa L.) Varieties and Seed Pre-Treatments Affect Seed Germination and Early Growth of Seedlings. *Agronomy*, **2022**, 12, 6	3.6	1
84	Determination of Critical Limit of Zinc for Rice (Oryza sativa L.) and Potato (Solanum tuberosum L.) Cultivation in Floodplain Soils of Bangladesh. *Sustainability*, **2022**, 14, 167	3.6	0
83	Screening of Soybean Genotypes Based on Root Morphology and Shoot Traits Using the Semi-Hydroponic Phenotyping Platform and Rhizobox Technique. *Agronomy*, **2022**, 12, 56	3.6	1
82	Nutrients Leaching from Tillage Soil Amended with Wheat Straw Biochar Influenced by Fertiliser Type. *Agriculture (Switzerland)*, **2021**, 11, 1132	3	0
81	The effects of biochar soil amendment on rice growth may vary greatly with rice genotypes.. *Science of the Total Environment*, **2021**, 810, 152223	10.2	1
80	Remediation of heavy metal-contaminated iron ore tailings by applying compost and growing perennial ryegrass (Lolium perenne L.). *Chemosphere*, **2021**, 288, 132573	8.4	1
79	Biochar with Alternate Wetting and Drying Irrigation: A Potential Technique for Paddy Soil Management. *Agriculture (Switzerland)*, **2021**, 11, 367	3	9
78	Microbial respiration, microbial biomass and activity are highly sensitive to forest tree species and seasonal patterns in the Eastern Mediterranean Karst Ecosystems. *Science of the Total Environment*, **2021**, 775, 145868	10.2	11
77	Arbuscular mycorrhizal fungus-mediated interspecific nutritional competition of a pasture legume and grass under drought-stress. *Rhizosphere*, **2021**, 18, 100349	3.5	3
76	Rice Seedling Growth Promotion by Biochar Varies With Genotypes and Application Dosages. *Frontiers in Plant Science*, **2021**, 12, 580462	6.2	2
75	Nutrient Enriched Municipal Solid Waste Compost Increases Yield, Nutrient Content and Balance in Rice. *Sustainability*, **2021**, 13, 1047	3.6	4

74	Nanobiotechnology for Agriculture: Smart Technology for Combating Nutrient Deficiencies with Nanotoxicity Challenges. *Sustainability*, **2021**, 13, 1781	3.6	16
73	Evaluation of Critical Limit of Sulphur in Soils for Wheat (Triticum aestivum L.) and Mustard (Brassica napus L.). *Sustainability*, **2021**, 13, 8325	3.6	2
72	Co-application of a biosolids product and biochar to two coarse-textured pasture soils influenced microbial N cycling genes and potential for N leaching. *Scientific Reports*, **2021**, 11, 955	4.9	3
71	Poultry Litter Biochar Increases Mycorrhizal Colonisation, Soil Fertility and Cucumber Yield in a Fertigation System on Sandy Soil. *Agriculture (Switzerland)*, **2020**, 10, 480	3	17
70	Biochar increases soil organic carbon, avocado yields and economic return over 4 years of cultivation. *Science of the Total Environment*, **2020**, 724, 138153	10.2	26
69	Growth and nutrient uptake of temperate perennial pastures are influenced by grass species and fertilisation with a microbial consortium inoculant. *Journal of Plant Nutrition and Soil Science*, **2020**, 183, 530-538	2.3	6
68	Characterization and carbon mineralization of biochars produced from different animal manures and plant residues. *Scientific Reports*, **2020**, 10, 955	4.9	37
67	Growth, Rhizosphere Carboxylate Exudation, and Arbuscular Mycorrhizal Colonisation in Temperate Perennial Pasture Grasses Varied with Phosphorus Application. *Agronomy*, **2020**, 10, 2017	3.6	5
66	Polymer-coated rock mineral fertilizer has potential to substitute soluble fertilizer for increasing growth, nutrient uptake, and yield of wheat. *Biology and Fertility of Soils*, **2020**, 56, 381-394	6.1	8
65	Biochar-based fertilizer: Supercharging root membrane potential and biomass yield of rice. *Science of the Total Environment*, **2020**, 713, 136431	10.2	43
64	Walnut Shell Biochar Increases Seed Germination and Early Growth of Seedlings of Fodder Crops. *Agriculture (Switzerland)*, **2020**, 10, 427	3	8
63	Nitrogen and Potassium Fertilisation Influences Growth, Rhizosphere Carboxylate Exudation and Mycorrhizal Colonisation in Temperate Perennial Pasture Grasses. *Agronomy*, **2020**, 10, 1878	3.6	2
62	Plant-Dependent Soil Bacterial Responses Following Amendment With a Multispecies Microbial Biostimulant Compared to Rock Mineral and Chemical Fertilizers. *Frontiers in Plant Science*, **2020**, 11, 550169	6.2	5
61	Biochar phosphorus concentration dictates mycorrhizal colonisation, plant growth and soil phosphorus cycling. *Scientific Reports*, **2019**, 9, 5062	4.9	32
60	Sequential defoliation impacts on colonisation of roots of Lolium rigidum by arbuscular mycorrhizal fungi were primarily determined by root responses. *Biology and Fertility of Soils*, **2019**, 55, 789-800	6.1	6
59	Molecular signal communication during arbuscular mycorrhizal formation induces significant transcriptional reprogramming of wheat (Triticum aestivum) roots. *Annals of Botany*, **2019**, 124, 1109-1119	4.1	2
58	Humus-Rich Compost Increases Lettuce Growth, Nutrient Uptake, Mycorrhizal Colonisation, and Soil Fertility. *Pedosphere*, **2019**, 29, 170-179	5	21
57	Soil disturbance and water stress interact to influence arbuscular mycorrhizal fungi, rhizosphere bacteria and potential for N and C cycling in an agricultural soil. *Biology and Fertility of Soils*, **2019**, 55, 53-66	6.1	19

56	Pyrolysis and co-composting of municipal organic waste in Bangladesh: A quantitative estimate of recyclable nutrients, greenhouse gas emissions, and economic benefits. *Waste Management*, **2018**, 75, 503-513	8.6	21
55	Application of compost and clay under water-stressed conditions influences functional diversity of rhizosphere bacteria. *Biology and Fertility of Soils*, **2018**, 54, 55-70	6.1	34
54	Arbuscular mycorrhizal fungus causes increased condensed tannins concentrations in shoots but decreased in roots of Lotus japonicus L.. *Rhizosphere*, **2018**, 5, 32-37	3.5	4
53	Response of Wheat to a Multiple Species Microbial Inoculant Compared to Fertilizer Application. *Frontiers in Plant Science*, **2018**, 9, 1601	6.2	24
52	A farmer□scientist investigation of soil carbon sequestration potential in a chronosequence of perennial pastures. *Land Degradation and Development*, **2018**, 29, 4301-4312	4.4	2
51	O-labeled phosphate applied to soil appears in the shoots of maize after uptake by roots but not after uptake by an arbuscular mycorrhizal fungus. *Mycorrhiza*, **2018**, 28, 787-793	3.9	2
50	Biochar for crop production: potential benefits and risks. *Journal of Soils and Sediments*, **2017**, 17, 685-716	3.4	222
49	Impact of Biochar on Soil Fertility and Behaviour of Xenobiotics in Soil. *Soil Biology*, **2017**, 299-318	1	
48	Response of hydrolytic enzyme activities and nitrogen mineralization to fertilizer and organic matter application in subtropical paddy soils. *European Journal of Soil Biology*, **2017**, 80, 27-34	2.9	18
47	Biological Indicators for Soil Health: Potential for Development and Use of On-Farm Tests **2017**, 123-134		2
46	Molecular divergence of fungal communities in soil, roots and hyphae highlight the importance of sampling strategies. *Rhizosphere*, **2017**, 4, 104-111	3.5	12
45	Biochar Production From Agricultural and Forestry Wastes and Microbial Interactions **2017**, 443-473		8
44	Biochar increases availability and uptake of phosphorus to wheat under leaching conditions. *Biology and Fertility of Soils*, **2016**, 52, 439-446	6.1	56
43	Interactions between biochar and mycorrhizal fungi in a water-stressed agricultural soil. *Mycorrhiza*, **2016**, 26, 565-74	3.9	48
42	Rhizosphere Microbes Interactions in Medicinal Plants. *Soil Biology*, **2015**, 19-41	1	7
41	Biochar: An Emerging Panacea for Remediation of Soil Contaminants from Mining, Industry and Sewage Wastes. *Pedosphere*, **2015**, 25, 654-665	5	74
40	Feeding Biochar to Cows: An Innovative Solution for Improving Soil Fertility and Farm Productivity. *Pedosphere*, **2015**, 25, 666-679	5	56
39	Influences of Biochar and Biochar-Mineral Complex on Mycorrhizal Colonisation and Nutrition of Wheat and Sorghum. *Pedosphere*, **2015**, 25, 686-695	5	63

38	Effects of Enriched Biochars Containing Magnetic Iron Nanoparticles on Mycorrhizal Colonisation, Plant Growth, Nutrient Uptake and Soil Quality Improvement. *Pedosphere*, **2015**, 25, 749-760	5	69
37	Exploring the transfer of recent plant photosynthates to soil microbes: mycorrhizal pathway vs direct root exudation. *New Phytologist*, **2015**, 205, 1537-1551	9.8	233
36	Contribution of Arbuscular Mycorrhizal Fungi to Soil Carbon Sequestration. *Soil Biology*, **2014**, 287-296	1	8
35	Use of Mycorrhiza in Sustainable Agriculture and Land Restoration. *Soil Biology*, **2014**, 1-15	1	5
34	Biochars immobilize soil cadmium, but do not improve growth of emergent wetland species Juncus subsecundus in cadmium-contaminated soil. *Journal of Soils and Sediments*, **2013**, 13, 140-151	3.4	79
33	Biochars influence seed germination and early growth of seedlings. *Plant and Soil*, **2012**, 353, 273-287	4.2	162
32	Decreased soil microbial biomass and nitrogen mineralisation with Eucalyptus biochar addition to a coarse textured soil. *Plant and Soil*, **2012**, 354, 311-324	4.2	314
31	Direct and residual effect of biochar application on mycorrhizal root colonisation, growth and nutrition of wheat. *Soil Research*, **2010**, 48, 546	1.8	147
30	Effect of banded biochar on dryland wheat production and fertiliser use in south-western Australia: an agronomic and economic perspective. *Soil Research*, **2010**, 48, 531	1.8	168
29	Use of Mycorrhiza Bioassays in Ecological Studies. *Soil Biology*, **2009**, 41-50	1	3
28	Isolation of Metabolically Active Arbuscules and Intraradical Hyphae from Mycorrhizal Roots. *Soil Biology*, **2009**, 189-195	1	
27	Influence of arbuscular mycorrhizal fungi, inoculum level and phosphorus placement on growth and phosphorus uptake of Phyllanthus calycinus under jarrah forest soil. *Biology and Fertility of Soils*, **2008**, 44, 815-821	6.1	10
26	Functional Diversity of Arbuscular Mycorrhizal Fungi on Root Surfaces **2008**, 331-349		1
25	Brassica genotypes differ in growth, phosphorus uptake and rhizosphere properties under P-limiting conditions. *Soil Biology and Biochemistry*, **2007**, 39, 87-98	7.5	50
24	Growth, P uptake and rhizosphere properties of intercropped wheat and chickpea in soil amended with iron phosphate or phytate. *Soil Biology and Biochemistry*, **2007**, 39, 249-256	7.5	47
23	Belowground interactions between intercropped wheat and Brassicas in acidic and alkaline soils. *Soil Biology and Biochemistry*, **2007**, 39, 961-971	7.5	22
22	Growth, P uptake and rhizosphere properties of wheat and canola genotypes in an alkaline soil with low P availability. *Biology and Fertility of Soils*, **2007**, 44, 143-153	6.1	39
21	Isolation and characterization of arbuscules from roots of an increased-arbuscule-forming mutant of Lotus japonicus. *Annals of Botany*, **2007**, 100, 1599-603	4.1	2

20	Growth responses of cool-season grain legumes to transient waterlogging. *Australian Journal of Agricultural Research*, **2007**, 58, 406		55
19	Environmental Proteomics: Extraction and Identification of Protein in Soil **2007**, 155-166		
18	Measurement of Microbial Biomass and Activity in Soil **2007**, 201-211		8
17	DGGE and RISA Protocols for Microbial Community Analysis in Soil **2007**, 167-180		3
16	Rhizosphere Properties of Poaceae Genotypes Under P-limiting Conditions. *Plant and Soil*, **2006**, 283, 11-24	4.2	83
15	Growth, phosphorus uptake, and rhizosphere microbial-community composition of a phosphorus-efficient wheat cultivar in soils differing in pH. *Journal of Plant Nutrition and Soil Science*, **2005**, 168, 343-351	2.3	54
14	Interactions between Lotus japonicus genotypes and arbuscular mycorrhizal fungi. *Journal of Plant Interactions*, **2005**, 1, 179-186	3.8	3
13	Phosphorus uptake by a community of arbuscular mycorrhizal fungi in jarrah forest. *Plant and Soil*, **2003**, 248, 313-320	4.2	9
12	Influence of liming, inoculum level and inoculum placement on root colonization of subterranean clover. *Mycorrhiza*, **2002**, 12, 285-90	3.9	12
11	Phosphate efflux from intraradical hyphae of Gigaspora margarita in vitro and its implication for phosphorus translocation. *New Phytologist*, **2001**, 151, 525-533	9.8	45
10	Characterization of Mycorrhizas Formed by Glomus sp. on Roots of Hypernodulating Mutants of Lotus japonicus. *Journal of Plant Research*, **2000**, 113, 443-448	2.6	58
9	Isolation of two different phenotypes of mycorrhizal mutants in the model legume plant Lotus japonicus after EMS-treatment. *Plant and Cell Physiology*, **2000**, 41, 726-32	4.9	58
8	Polyphosphates in intraradical and extraradical hyphae of an arbuscular mycorrhizal fungus, Gigaspora margarita. *Applied and Environmental Microbiology*, **1999**, 65, 5604-6	4.8	61
7	Glomus-wetland rice mycorrhizas influenced by nursery inoculation techniques under high fertility soil conditions. *Biology and Fertility of Soils*, **1998**, 27, 92-96	6.1	34
6	Responses of directly seeded wetland rice to arbuscular mycorrhizal fungi inoculation. *Journal of Plant Nutrition*, **1997**, 20, 1479-1487	2.3	28
5	Effect of arbuscular mycorrhizal fungi inoculation of rice seedlings at the nursery stage upon performance in the paddy field and greenhouse **1997**, 191, 1-12		44
4	Use of sugars by intraradical hyphae of arbuscular mycorrhizal fungi revealed by radiorespirometry. *New Phytologist*, **1997**, 136, 533-538	9.8	148
3	Effectiveness of arbuscular mycorrhizal colonization at nursery-stage on growth and nutrition in wetland rice (Oryza sativa L.) after transplanting under different soil fertility and water regimes. *Soil Science and Plant Nutrition*, **1996**, 42, 561-571	1.6	34

2	Effects of indigenous arbuscular mycorrhizal fungi in paddy fields on rice growth and N, P, K nutrition under different water regimes. *Soil Science and Plant Nutrition*, **1995**, 41, 505-514	1.6	37
1	Sugarcane bagasse biochar increases soil carbon sequestration and yields of maize and groundnut in charland ecosystem. *Archives of Agronomy and Soil Science*,1-14	2	5