

Tovohery Rakotoson

List of Publications by Year
in descending order

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Version: 2024-02-01

26
papers

547
citations

687363
13
h-index

677142
22
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27
all docs

27
docs citations

27
times ranked

470
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges and opportunities for improving N use efficiency for rice production in sub-Saharan Africa. <i>Plant Production Science</i> , 2019, 22, 413-427.	2.0	92
2	Vis-NIR Spectroscopy and PLS Regression with Waveband Selection for Estimating the Total C and N of Paddy Soils in Madagascar. <i>Remote Sensing</i> , 2017, 9, 1081.	4.0	72
3	Phosphorus uptake of rice plants is affected by phosphorus forms and physicochemical properties of tropical weathered soils. <i>Plant and Soil</i> , 2019, 435, 27-38.	3.7	55
4	Larger bioavailability of soil phosphorus for irrigated rice compared with rainfed rice in Madagascar: results from a soil and plant survey. <i>Soil Use and Management</i> , 2012, 28, 448-456.	4.9	38
5	Laboratory Visible and Near-Infrared Spectroscopy with Genetic Algorithm-Based Partial Least Squares Regression for Assessing the Soil Phosphorus Content of Upland and Lowland Rice Fields in Madagascar. <i>Remote Sensing</i> , 2019, 11, 506.	4.0	34
6	Farmyard manure application in weathered upland soils of Madagascar sharply increase phosphate fertilizer use efficiency for upland rice. <i>Field Crops Research</i> , 2018, 222, 94-100.	5.1	31
7	Effects of soil flooding and organic matter addition on plant accessible phosphorus in a tropical paddy soil: an isotope dilution study. <i>Journal of Plant Nutrition and Soil Science</i> , 2016, 179, 765-774.	1.9	23
8	Farmyard manure improves phosphorus use efficiency in weathered P deficient soil. <i>Nutrient Cycling in Agroecosystems</i> , 2019, 115, 407-425.	2.2	22
9	Multiple-nutrient limitation of upland rainfed rice in ferralsols: a greenhouse nutrient-omission trial. <i>Journal of Plant Nutrition</i> , 2020, 43, 270-284.	1.9	22
10	Comparison of visual and instrumental measurements of soil color with different low-cost colorimeters. <i>Soil Science and Plant Nutrition</i> , 2019, 65, 605-615.	1.9	18
11	Effects of organic matter addition on phosphorus availability to flooded and nonflooded rice in a P-deficient tropical soil: a greenhouse study. <i>Soil Use and Management</i> , 2015, 31, 10-18.	4.9	17
12	Farmyard manure application has little effect on yield or phosphorus supply to irrigated rice growing on highly weathered soils. <i>Field Crops Research</i> , 2016, 198, 61-69.	5.1	17
13	Soil flooding and rice straw addition can increase isotopic exchangeable phosphorus in P-deficient tropical soils. <i>Soil Use and Management</i> , 2014, 30, 189-197.	4.9	16
14	Phosphorus management strategies to increase lowland rice yields in sub-Saharan Africa: A review. <i>Field Crops Research</i> , 2022, 275, 108370.	5.1	15
15	Soil phosphorus retention can predict responses of phosphorus uptake and yield of rice plants to P fertilizer application in flooded weathered soils in the central highlands of Madagascar. <i>Geoderma</i> , 2021, 402, 115326.	5.1	13
16	Exploring relevant wavelength regions for estimating soil total carbon contents of rice fields in Madagascar from Vis-NIR spectra with sequential application of backward interval PLS. <i>Plant Production Science</i> , 2021, 24, 1-14.	2.0	12
17	Failures in agricultural innovation due to poor understanding of farmers' predispositions. <i>Development in Practice</i> , 2018, 28, 691-704.	1.3	8
18	Phosphorus deficiency tolerance in <i>Oryza sativa</i> : Root and rhizosphere traits. <i>Rhizosphere</i> , 2020, 14, 100198.	3.0	8

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19	Sequential micro-dose fertilization strategies for rice production: Improved fertilizer use efficiencies and yields on P-deficient lowlands in the tropical highlands. <i>European Journal of Agronomy</i> , 2021, 131, 126381.	4.1	7
20	Physiological investigations of management and genotype options for adapting rice production to iron toxicity in Madagascar. <i>Journal of Plant Nutrition and Soil Science</i> , 2019, 182, 485-495.	1.9	6
21	Farm yard manure application mitigates aluminium toxicity and phosphorus deficiency for different upland rice genotypes. <i>Journal of Agronomy and Crop Science</i> , 2021, 207, 148-162.	3.5	6
22	Soil survey of the east coast and the central highlands indicates need to update Madagascar soil map. <i>Soil Science and Plant Nutrition</i> , 2020, 66, 469-480.	1.9	4
23	Effects of fertilizer micro-dosing in nursery on rice productivity in Madagascar. <i>Plant Production Science</i> , 2021, 24, 170-179.	2.0	4
24	Farmyard manure application increases spikelet fertility and grain yield of lowland rice on phosphorus-deficient and cool-climate conditions in Madagascar highlands. <i>Plant Production Science</i> , 2021, 24, 481-489.	2.0	4
25	Organic materials with high P and low C:P ratio improve P availability for lowland rice in highly weathered soils: Pot and incubation experiments. <i>Journal of Plant Nutrition and Soil Science</i> , 2022, 185, 475-485.	1.9	1
26	Priorities for soil research and sustainable management in Madagascar. <i>Geoderma Regional</i> , 2022, 29, e00518.	2.1	1