CSIR-Soil Research Institute

Publication List for 2020

1. Stephen Owusu, Yusuf Yigini, Guillermo Faedraco Olmedo, Christian Tain. ( 2020).Spatial prediction of soil organic carbon stocks in Ghana using legacy data. Geordema 360:114008-
2. Essel, B., Abaidoo, R.C., Opoku, A. and Ewusi-Mensah, N. (2020). Economically optimal rate for nutrient application to maize in the semi-deciduous forest zone of Ghana. J Soil Sci Plant Nutr. 20, 1703 – 1713 (2020).
3. Obianuju Chamaka Emmanuel,Olayiwola A. Akintola, Francis M. Tetteh and Olubukola Olaranti Babalola. 2020. Combined application of inoculant, phosphorus and potassium enhances cowpea yield in Savanna soils. Agronomy 11(1):15 DOI: 10.3390/agronomy 11010015
4. Obianuju Chamaka.Emmanuel, Olaywola Akin Akintola, Francis Marthy Tetteh and Olubukola Olaranti Babalola. 2020. Data on the vegetative response of cowpea to fertilizer application on three selected benchmark soils of the Upper West region of Ghana. Published by Elsevier Inc;DOI: 10.1016/i.dib.2020.105590. (<http://creativecommons.org/licenses/4.0/>)
5. Edward Yeboah, Gideon Asamoah, Patrick Ofori, Ben Amoah, Kwaku Osei Adu Agyeman (2020). Method of biochar application affects growth, yield and nutrient uptake of cowpea. Open agriculture 5: 352-360, <https://doi.org/10.1515/opag-2020-0040>
6. Apori Samuel Obeng, Adams Sadick, Emmanuel Hanyabui, Mohammed Musah, Murongo Marius and Mark Kwasi Acheampong. (2020). Evaluation of soil fertility status in oil palm plantations in the Western Region of Ghana. AIMS Agriculture and Food, 5(4): 938–949.
7. Prince M. Gyekye, Enoch Boateng, Adams Sadick, Justice Ankomah Baffoe, Bernard T. Kabutey and Samuel O. Mensah. (2020). Soil and land Suitability Assessments towards Sustainable Rice Production in the Northern Zone of Ghana. Current Journal of Applied Science and Technology 39(45): 36-51.
8. Felix O. Ababio, Adams Sadick, Gyekye M. Prince and Calys-Tagoe Edward. (2020). Soil Fertility for Sustainable Crop Production: A Case Study of Gyerentor in Kete Krachi, Oti Region of Ghana. International Journal of Plant & Soil Science. 32 (2): 59-67.
9. Prince M. Gyekye, Adams Sadick, Felix O. Ababio, Mohammed Musah and Calys Tagoe Edward. (2020). Assessing the Presence of Soil Lead Contamination on the Premises of Air Liquide Ghana Limited in Tema, Ghana. Journal of Scientific Research & Reports 26(3): 60-65.
10. K. Osei, A. I. Adama, E. C. Tagoe and J. Sackey-Asante. (2020). Biochar effect on nematodes and insects population density, soil improvement and yield of okra. Pakistan Journal of Nematology (2020) 38(1): 103-106.
11. Yeboah, E., Asamoah, G., Ofori, P., Amoah, B., & Agyeman, K. O. A. (2020). Method of biochar application affects growth, yield and nutrient uptake of cowpea, Open Agriculture, 5(1), 352-360. doi: <https://doi.org/10.1515/opag-2020-0040>
12. Patrick Ofori, Gideon Asamoah, Ben Amoah, Kwaku Osei Adu Agyeman Edward Yeboah (2020). Combined application of poultry litter biochar and NPK fertilizer improves yield of cabbage and soil quality. (Manuscript accepted for publication in Open Agriculture Journal (Manuscript ID: OPAG-D-20-00127).
13. Osei, O., Abaidoo, R. C., Opoku, A., Rouws, J. R. C., Boddey, R. M., Ahiabor, B.D. K. and Rouws, L. F. M. (2020). Native Bradyrhizobium Strains from Ghana can Enhance Grain Yields of Field-Grown Cowpea and Groundnut. Front. Agron. 2:2. doi: 10.3389/fagro.2020.00002
14. Ulzen, J., Abaidoo, R. C., Ewusi-Mensah, N., Osei, O., Masso, C. and Opoku, A. (2020). Organic Manure Improves Soybean Response to Rhizobia inoculant and P-fertilizer in northern Ghana. Front. Agron, doi: 10.3389/fagro.2020.00009
15. Kwaku Osei Adu Agyeman, Lucy Amissah (2020). Comparative Assessment of tree seedlings performance on degraded mined and unmined forest soils.
16. Amoakwah, E., Ahsan, S., Rahman, M.A., Asamoah, E., Essumng, D.K., Ali, M. and Islam, K.R. (2020). Assessment of heavy metal pollution of soil-water-vegetative ecosystems associated with artisanal gold mining, soil and sediment contamination; Soil and Sediment Contamination: An International Journal, 29:7, 788-803. http://doi.org/ 10.1080/15320383.2020.1777936
17. Amoakwah, E., Arthur, E., Frimpong, K.A., Rafiq, K.R. and Parikh, S. (2020). Soil organic carbon storage and quality are impacted by corn cob biochar application on a tropical sandy loam; J Soils Sediments, 20, 1960–1969. <https://doi.org/10.1007/s11368-019-02547-5>
18. Abukari Ammal, Akwasi Adutwum Abunyewa, Edward Yeboah. (2020). Influence of integrated soil fertility management on the vegetative growth parameters of zea mays in the Guinea savanna eco-zone of Ghana. Journal of Agricultural Sciences. Vol 65, No. 2. pp.187-197. <https://doi.org/10.2298/JAS2002187A>
19. Kofi Atiah, Edward Yeboah, Eric Nartey, Innocent Yao Dotse Lawson, Volker Hairing, Andreas Buerkert and Bernard Marschner. (2020). Changes in bulk and surface properties of two biochar types during 12 months of field aging in two West-African soils. West African Journal of Applied Ecology Vol 28 (1). 2020: 62-85
20. Eric Owusu Adjei, (2020). Ghana Soil Management Policy: Relevance, Concepts and Processes for its Attainment. International Journal of Creative Research Thoughts (IJCRT), ISSN: 2320-2882, Volume 8, Issue 11, pp. 2917-2925, November 2020, Available at: http://www.ijcrt.org/papers/IJCRT2011338.pdf

**Abstracts**

1. Edward Yeboah, Gideon Asamoah and Francis Marthy Tetteh. (2020). Cassava growth and yield as affected by integrated use of organic and mineral fertilizers in the transition savannah zone of Ghana. Dresden Nexus Conference (DNC2020) on Circular Economy in a Sustainable Society, 3-5 June, 2020, Germany.

**Posters**

1. Edward Yeboah, Gideon Asamoah and Francis Marthy Tetteh. (2020). Cassava growth and yields as affected by integrated use of organic and mineral fertilizers in the transition savannah zone of Ghana. Dresden Nexus Virtual Conference, June 3-5 2020, Dresden, Germany

**Approved consultancy reports**

1. Edward Yeboah, Stephen Owusu, James Oppong and Michael Amankwah. (2020). Report on LandPKS and Grameen Foundation Soil texture calibrations, training and validation of field data in Ashanti Region of Ghana. 74 pp. CSIR/SRI/CR/EY/2020/01

**Manuals**

1. Kofi Boa, Mathias Fosu, Wilson Dogbe, William Attakora, Roger Kanton, Prince Maxwell Etwire, Michael Mawunya, Abdulai Mumuni, Francis Tetteh, Edward Yeboah, Mohammed Sintaro, Malam Seidu, Isaac Papanko, Abdulai Jamiel, Robert Owoo, Josephine Sarpong, Felix N. Darimaani, Abubaker Seidu, Wilson Doku, Ernest A. Asiedu, Peter Osei Tutu, Attipoe, B. C, Peter Dakudzie and Festus Langkuu. (2020). Operational and training manual for maize and soybean production under large scale conservation agriculture. pp 56.
2. Kwabena Abrefa Nketia and Edward Yeboah. (2020). Soil Texture by Feel. CSIR/SRI/MA/KAN/2020/01. pp 4
3. Adjei E. O., Buri M. M., Annan-Afful E., Musah M. and Biney N. (2020). Manual on effective soil nutrient management for lowland rice production in Ghana. CSIR/SRI/MA/EOA/2020/01; March 2020
4. Buri M. M., Adjei E. O., Annan-Afful E., Sekyi-Annan E., Musah M., Biney N (2020). Manual on good and effective land preparation for lowland rice production. CSIR/SRI/MA/BMM/2020/02; March, 2020
5. Buri M. M., Adjei E. O., Annan-Afful E., Sekyi-Annan E., Musah M., Biney N. (2020). Manual on good and effective water management for lowland rice production. CSIR/SRI/MA/BMM/2020/03; March, 2020.
6. Annan-Afful E., Asante M. D., Buri M. M, Adjei, E. O., Bam R. K., Osei Tutu I. (2020). Manual on good seed selection and nursery management in lowland rice production in Ghana. CSIR/CRI/MA/AAE/2020/03, March 2020

**Extension Leaflet, Flyers etc.**

1. Patrick Ofori, Edward Yeboah, Ophelia Osei, Gideon Asamoah, Kwaku Osei Adu Agyeman, Ben Amoah, Jonas Osei-Adu, Moses Brandford Mochiah, Solomon Gyasi Boakye, Isaac Osei-Tutu, Stephen Yeboah, Charles Afriyie-Debra, Bright Owusu Asante, Grace Bolfrey-Arku, Priscilla Francisco Ribeiro. (2020). Soil Fertility Management for Maize Production.
2. Stephen Yeboah, Priscilla Francisco Ribeiro, Patricia Oteng-Darko, Jonas Osei-Adu, Moses Brandford Mochiah, Edward Yeboah, Charles Afriyie-Debrah, Isaac Osei-Tutu, Grace Bolfrey-Arku, Bright Owusu Asante and Samuel Gyasi Boakye. Good agronomic practices for improved maize production.
3. Stephen Yeboah, Priscilla Francisco Ribeiro, Patricia Oteng-Darko, Jonas Osei-Adu, Moses Brandford Mochiah, Samuel Gyasi Boakye, Charles Afriyie-Debrah, Isaac. Osei-Tutu, Grace Bolfrey-Arku, Bright Owusu Asante and Edward Yeboah. Know your improved varieties.