1. A low-cost, automatic soil–plant–atmosphere enclosure system to investigate CO2 and evapotranspiration flux dynamics
2. Amorphous Silica (ASi) effects on N fertilizer induced N₂O emissions from soils of major Agro-ecological zones (AEZ) of West Africa.
3. Amorphous Silica Fertilizer and Drought Stress Mitigation: Unraveling Phenological Dynamics, Carbon-Water Balance, and Crop Resilience
4. Amorphous silica reduces N2O emissions from arable land at the field plot scale
5. Development and application of low-cost agriculture sensor devices in the Global South: A Review.
6. Do maize–soybean rotations act as carbon sinks? Evidence from a farmer-managed field in Tolon District, Ghana.
7. Effects of rice husk ash as circular economy silicon source and compost on rice yield, water use efficiency and CO2 emissions in west Africa.
8. Fertilizer soil interaction directly after the application of processed cabbage residues as organic fertilizers
9. First GHG measurements in Andean peatlands (bofedales) of Bolivia show positive/no/negative effect of Alpaka grazing
10. Hotspots, controls and prediction of CO₂ and CH₄ fluxes in rewetted peatlands using low cost chamber networks and machine learning.
11. How accurate are low-cost CO₂ and CH₄ sensors for peatland chamber flux measurements? A field comparison with reference instrumentation
12. How do different broadleaf tree species contribute to total water use efficiency depending on their hillslope position.
13. Impact of plant succession on greenhouse gas fluxes during the transition of a flooded fen peatland
14. Integrating soil properties and spectral data to predict N₂O emissions across cropping seasons
15. Low-cost measurement of CH4 fluxes
16. N emission reduction and yield response using processed cabbage residues as organic fertilizers in organic and conventional vegetable production.
17. On-farm effects of urease and nitrification inhibitors on resource use, soil carbon, and climate impacts
18. Real-time prediction of wetland CO₂ and CH₄ fluxes using a low-cost chamber network and IoT-based environmental drivers
19. Silica amendments as a strategy to reduce N₂O and CH₄ emissions from organic fertilizers
20. Sustainable Agriculture from the Bottom Up: A Low-Cost, User-Controlled Platform to Democratize Digital Technologies
21. The effect of amorphous silica on soil–plant–water relations in soils with contrasting textures
22. The unexpected long period of elevated CH4 emissions from an inundated fen meadow ended only with the occurrence of cattail (*Typha latifolia*)
23. Tracing N dynamics and uptake in vegetable cropping systems using ¹⁵N isotope labelling in a mesocosm experiment.
24. Trans-European comparison of drought mitigation strategies depending on hillslope position
25. Water-use strategies and growth performance along a hillslope transect in a diverse Central European Forest