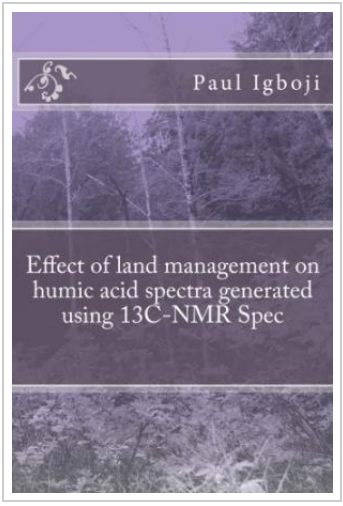

Effect of Land Management on Humic Acid Spectra Generated Using 13c-NMR Spec (Paperback)

By Prof Paul Ola Igboji Phd

Createspace Independent Publishing Platform, United States, 2016. Paperback. Condition: New. Large Print. Language: English. Brand new Book. Organic matter in soils and waters is conveniently categorized as humic and non-humic substances based on operational definitions. Humic substances are organic materials derived principally from decaying plant remains but with the normal plant components considerably altered by the soil animal, and microbial populations. Abiological chemical reactions are also possible the entire process giving rise to a complex mixture of macromolecules whose composition is site-dependent, especially on vegetation and pedogenic processes. Since Achards first extraction of humic substances in 1786, the use of different isolation and fractionation techniques has led to considerable confusion until in 1982, when the International Humic Substances Society published methodologies for the extraction and fractionation of humic substances, from both soils and waters. The percentage distribution of humic fulvic and hydrophilic acids has been fully described by Anderson et al. (1984). Humic substances are the most abundant of the naturally occurring OM in well humified soils. From cross polarization magic angle spinning (CPMAS) 13C nuclear Magnetic Resonance (NMR) Spectroscopy and from sugar and amino acid analysis of humic substances it has been found that each humic component in each...

Reviews

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