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Characterization of physicochemical properties of *Arachi hypogaea* L. seed shell (groundnuts) ash

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The *Arachis hypogaea* seed shell which is a byproduct from groundnuts was envisigated as an organic fertilizer characterizing its physicochemical characteristic properties as well as chemical composition. *Arachis hypogaea* L. (groundnuts) seed shell ashes were evaluated by different techniques such as X-ray fluorescene, X-ray diffraction and thermogravimetric analysis. The analysis was done in order to determine its suitability as organic fertilizer, source of energy and as animal feed. This will provide a reasonable economic means for this waste product in an environmentally friendly manner. The result of X-ray fluorescene of the *Arachis hypogaea* L. ash has shown a high percentage of macro elements such as Ca, Zn Mg and Cl, also micro elements such as Cr. Thermogravimetry result indicated massive destruction in organic matter leading to low ash content, which indicated its suitability as an energy source. Green house experiment was conducted on radish plant with application of the ash as a control. The yield and yield parameters indicated high performance of the ash when applied to the plants as a fertilizer in an Irish mose peat medium.

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