

**Economically Viable Synthesis of Carbon dots and its
Application**

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Abstract

Highly luminescent carbon dots (C-dots) were synthesized by the one-pot simple hydrothermal method directly from moringa oleifera leaf. C-dots were characterized with Fourier transform infrared spectrophotometry and Zeta. The carbon dots was further utilized as Nano nutrient for the growth of plants. The plant treated with C-dots nanoparticles showed significant growth against the non-treated plants.

Keywords: Carbon dots, Nano particles, green synthesis, plant treatment.