

Effect of Cu-doped carbon nanoparticle (CuCNP) on *Vigna radiata*

Saheli Pradhan ^{a, b}, Sourov Chandra ^{b, c}

^a School of Basic and Applied Sciences, Career Point University, Kota, Rajasthan.

^b AERU, Biological Sciences Division, Indian Statistical Institute, Kolkata-700108, India.

^c Department of Applied Physics, Aalto University, Finland

*Corresponding Author: saheli.pra@gmail.com

Carbon dots or carbon nanoparticles (CNPs) are unique class of nanocarbons with unique photoluminescence property. Considering the biocompatibility of CNPs, versatile biological applications have been documented including augmentation in photosynthesis. Significant attention has also been paid towards the electron donor-acceptor property of CNPs, industrial importance was increased too. Despite some of the scattered efforts with CNPs on plant system, less attention has been paid on the photo-physiological properties of plant system and downstream compatibility study in agricultural sector using doped CNPs. Here in we showcase facile synthesis of Cu doped CNPs as model component of metal doped CNPs and its preliminary study on plant system. Our study shed the light of effectivity in plant system for downstream compatibility in agricultural sector.

Keywords: Carbon nanoparticle, Copper, Fluorescent, Chlorophyll

[Full Text](#)

[PDF](#)

[Submit Paper Online](#)

[Best Paper Award](#)

[Plagiarism Policy](#)

[Author Membership](#)

[Publication Policy](#)

[FAQ](#)