



Showcasing research on biomass Carbon dots as fluorescent probes from Professor Isabella Chiarotto's laboratory, Dept. SBAI, Sapienza University of Rome, Italy.

Carbon nanodots from orange peel waste as fluorescent probes for detecting nitrobenzene

Our work introduces an intriguing method for converting biomass into valuable nanoparticles, such as Carbon Dots. We demonstrate the sustainability of our processes by evaluating process efficiency metrics. Then the fluorescent properties of these nanoparticles enable us to efficiently detect harmful nitrobenzene in water, even at low concentrations. Thanks to iENTRANCE@ENL Project for their invaluable contribution to disseminating this work focused on circular economy and sustainability.

As featured in:



See Cinzia Michenzi, Isabella Chiarotto *et al.*, *RSC. Sustainability.*, 2024, **2**, 933.