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Showcasing research from Dr. Dilbag Singh, Environmental Sciences Laboratory, School of Earth and Environmental Sciences, Central University of Himachal Pradesh, Dharamshala (Himachal Pradesh), India.

Molecularly engineered carbon nanostructures derived from *Parthenium hysterophorus* for ultralow detection of lead(II) ions

This image portrays the transformation of biomass waste into sustainable carbon-based nanomaterials with vast potential for commercial applications. Biomass waste has potential akin to the tortoise, which was revolutionized after effective tailoring methods to harness their capabilities effectively. As research advances, we move closer to a sustainable future where biomass-derived nanocarbon plays a pivotal role in addressing environmental challenges and contributing to innovative, eco-friendly solutions across various industries.

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As featured in:



See Ritika Sharma and Dilbag Singh, *Catal. Sci. Technol.*, 2025, **15**, 708.