

# Environmental Science: Atmospheres

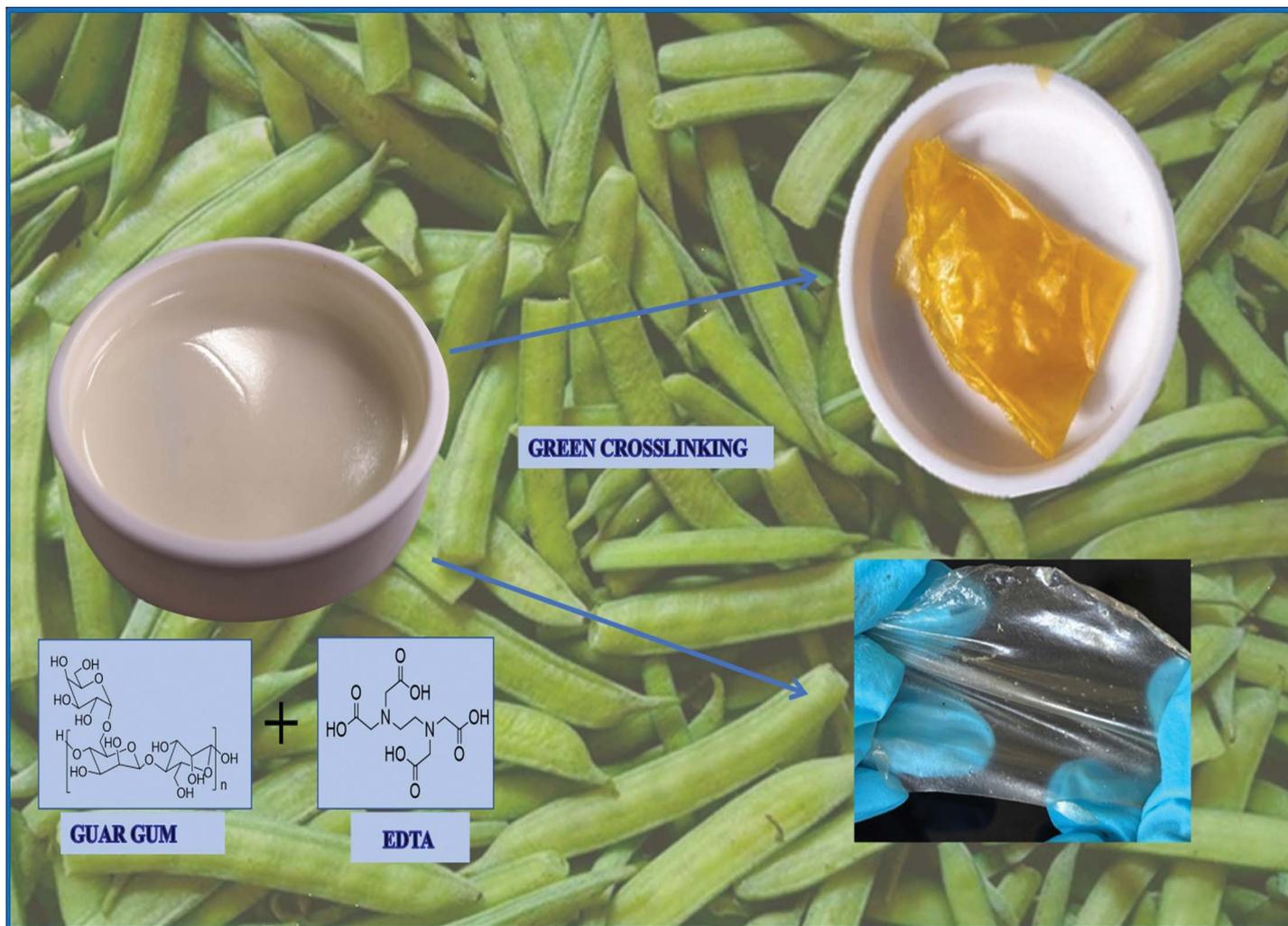
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Fundamental questions  
Elemental answers





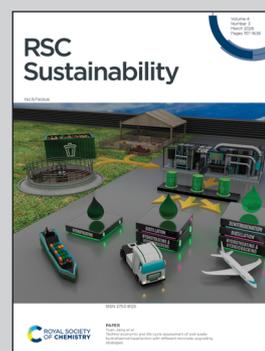
Showcasing research from Dr. Vineet Kumar's laboratory, Chemistry and Bio prospecting Division, Forest Research Institute, Dehradun, India.

EDTA-mediated crosslinking of guar gum: a sustainable platform for transdermal curcumin delivery

An efficient and sustainable green synthesis of porous and flexible EDTA-crosslinked guar galactomannan films has been accomplished that functions as an effective transdermal drug delivery system (TDDS), demonstrating non-Fickian diffusion-controlled and sustained release of curcumin from the synthesized crosslinked matrix. Such films embrace promising potential as supportive matrices for advanced organoid development in the field of biomedical applications.

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As featured in:



See Vineet Kumar *et al.*, *RSC Sustainability*, 2026, **4**, 1376.