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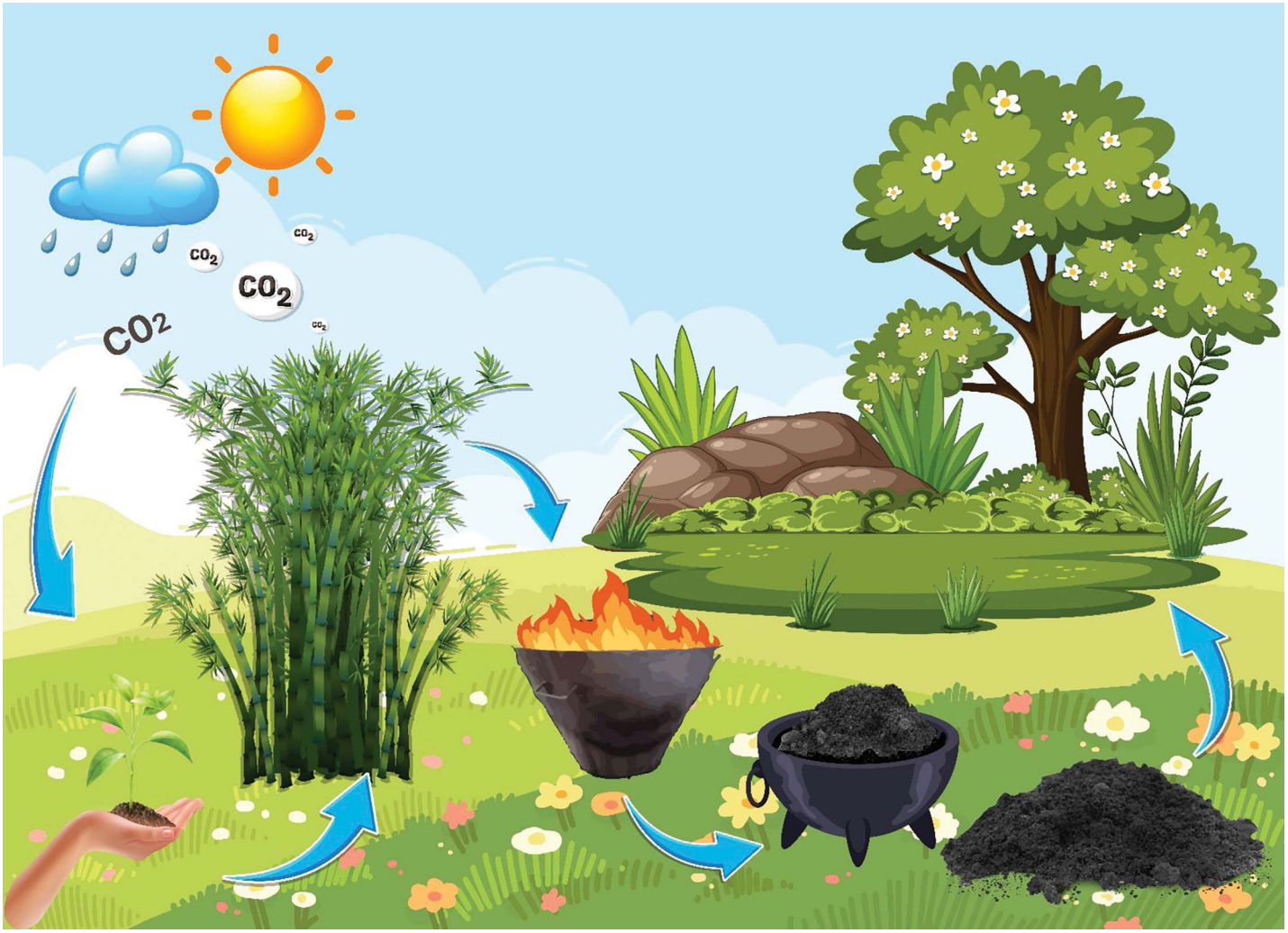

Showcasing research from Professor Basu Saha's laboratory, School of Engineering, Lancaster University, Lancaster, LA1 4YW, UK.

From bamboo to biochar: a critical review of bamboo pyrolysis conditions and products with a focus on relevance to the developing world

This innovative study explores the production of biochar through the pyrolysis of bamboo, offering a critical analysis of pyrolysis techniques with a focus on the separation of resulting syngas into condensable (bio-oil) and non-condensable gases. The research examines how varying pyrolysis conditions influence product yield and composition, with the dual aim of maximising biochar output and minimising greenhouse gas emissions. By addressing the environmental and technological aspects of biomass conversion, this work aligns with the UN Sustainable Development Goals 12, 13, and 15, with particular relevance to the developing world.

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As featured in:

See Basudeb Saha *et al., RSC Sustainability,* 2025, **3**, 2712.

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