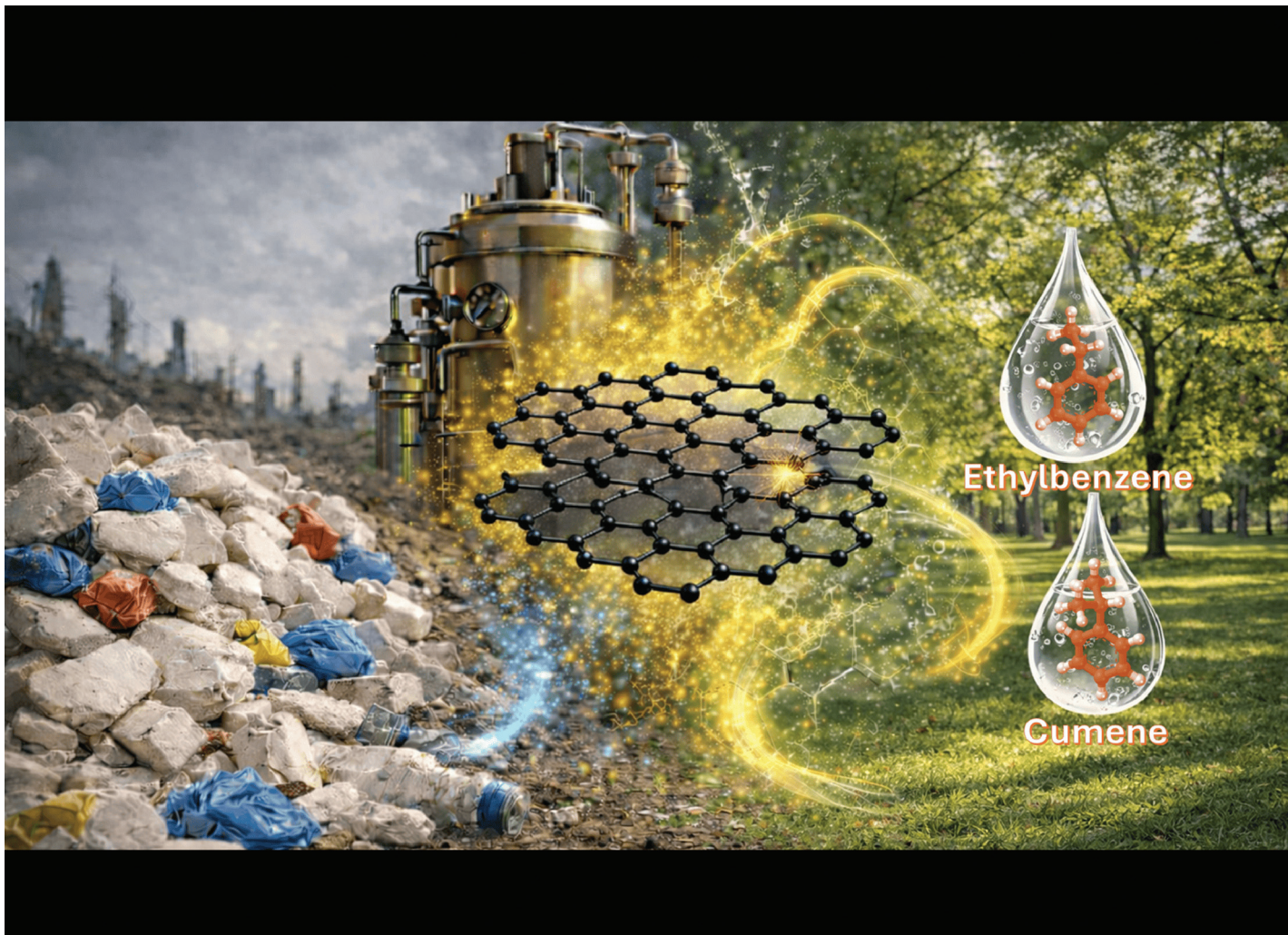


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Showcasing research from Professor Lian Zhang's laboratory, ARC Industrial Transformation Research Hub of Value-Added Processing of Underutilised Carbon Waste (Hub Manager Dr Jinxing Gu), Department of Chemical and Biological Engineering, Monash University (Australia), together with Professor Alan Chaffee, School of Chemistry, Monash University (Australia) and Associate Professor Saman Ilankoon from Monash University Malaysia.

Metal-free carbocatalysts for the selective production of ethylbenzene and cumene from mixed plastic waste

The study investigates the valorisation of mixed plastic waste into high-value chemicals through catalytic fast pyrolysis, employing a metal-free carbo-catalyst derived from scrap tyres—another low-value waste stream that is widely dumped or landfilled globally, leading to significant environmental concerns.

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As featured in:



See Dewi Wahyu, Jinxing Gu, Lian Zhang *et al.*, *Green Chem.*, 2026, **28**, 6660.