Showcasing research from Professor Kwangjin An's laboratory, School of Energy and Chemical Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan, Republic of Korea.

Upcycling of plastic waste into carbon nanotubes as efficient battery additives

The pyrolysis-chemical vapor deposition process represents a highly promising technology for the treatment of plastic wastes, offering a solution that eliminates CO_2 emissions and simultaneously produces carbon nanotubes (CNTs), a material of considerable value. Plastic wastes including face masks yielded CNTs with high purity and yield, which were subsequently employed as conductive additives in lithium-ion batteries (LIBs).

As featured in:

See Myung Won Seo, Kyung Jin Lee, Kwangjin An *et al.*, *Green Chem.*, 2023, **25**, 8007.

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