



Showcasing research from the group of Prof. Vito Rizzi, University of Bari "Aldo Moro", Department of Chemistry, Italy.

Kiwi peel waste as a recyclable adsorbent to remove textile dyes from water: Direct Blue 78 removal and recovery

This work investigates the use of kiwi peels to remove Direct Blue 78 from water, as predicted by circular bioeconomy principles. So, a food waste was proposed as a recyclable adsorbent substrate, and the adsorption process was thus fully characterized, investigating the roles of ionic strength, pH values, adsorbent/pollutant amounts, and temperature. The results offered the possibility to recycle both the dye and kiwi peels and dyeing experiments were also attempted.

As featured in:



See Vito Rizzi *et al.*,  
*Phys. Chem. Chem. Phys.*,  
2024, **26**, 9891.