

Innovative nanofibers from agro-industrial waste: pioneering circular economy solutions

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Looking for a sustainable and regenerative management of agricultural activities, the upcycling of bio-waste, aimed to a beneficial reintroduction in the productive cycle, could represent a determinant factor to reduce the exploitation of fossil fuels and then to cut environmental impacts all along the whole chain of the primary sector. The implementing TERRE project, financed by the CNR and focused on the electrospinning technology (ES), gets an innovative approach and reveals its high development potential and replicability level. Within its other benefits, the ES technology indeed gets an amazing flexibility, that allows, by a side, the exploitation (as inputs) of different kind of biowaste, and, by the other side, the production of eco-designed products with various applications (as outputs). As well as revealed by the specific LCA analysis, the speech is ideated to show and remark the main positive results coming from the ongoing study about TERRE's environmental and economic impacts.