## Title: Food Waste for Value-added Bio-based Materials – A Circular Approach

The Circular Economy principle of closed loop systems, envisions a system-based approach to design and implement multiple cycles of resources and products to extend their useful life. We can now design and engineer bio-based materials that utilize some of the non-food, agri-based residues and food processing waste to create new bio-based composite materials. The use of "wastes" to create new materials is a concept that has led us to fully, or partially substitute petroleum-based plastic materials. This synergy of circular and green economy provides many creative options for making new bio-based materials that not only reduce environmental impact but are also commercially viable.

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