

Innovative bio-based hybrid materials for the development of sustainable applications

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The speech will be focused on the development of novel sustainable bio-based hybrid materials that can be efficiently applied in high-performance applications, where the current petrochemical-derived materials represent a threat to the environment and human health. The potential applications and performances of these advanced materials, useful as they are, or as surface coatings, will be shown in terms of environmental, economic, and social impact. A sustainability assessment of these bio-based materials will be introduced to quantify performance, toxicity and reduced greenhouse gas emissions.