

Sustainability of biochar: from waste to advanced applications

This talk will provide a summary of research on transformation of common organic biomass into biochar. The conversion is done by pyrolysis, a thermal treatment without the presence/limited presence of oxygen. Manufactured under controlled conditions biochar can serve as a starting material for development of various technologies/applications. The presentation will focus on two applications: in-situ treatment of stormwater and CO₂ capture by biochar activated by low frequency ultrasound waves and functionalized with amine.

