

DRAZEVICANIN Nemanja

Function : Engineer

Research subject : Studying the conversion of biomass in biochar – characterization and understanding

Project description :

Due to anthropogenic activities, carbon emissions represent the double of the plant capability to absorb them, thus contributing to the global warming. Biomass appears to be one possible solution to lower this phenomenon.

Hy-C-Green Project focuses on developing a bioraffinery concept for biomass conversion. The latter is studied with a metal hyperaccumulating plant *Alyssum Murale* which is transformed in biochar by pyrolysis or gasification processes. These biochars could be used in different fields of application such as catalysis or environmental protection. They combine a carbonaceous structure for the catalytic support and the Nickel, a well-known chemical element for its catalytic activity. Working on this material characterization would help to understand the transformation of biomass in biochar, the role of Nickel during the pyrolysis process and the efficiency of the biochars in their future applications.



**Bureau
d'économie
théorique
et appliquée
(BETA)
UMR 7522**

