

CASE STUDY

Enhancing my research via BRISK Transnational Access



Elif Saracoglu of Anadolu University, Turkey, discusses the benefits of BRISK Transnational Access to her Masters thesis.



Figure 1: Sugar beet feedstock.

Resources Institute (CPERI) was a valuable opportunity and experience that enhanced my Masters thesis.

I study as a graduate student at the Chemical Engineering Department of Anadolu University, Turkey, where a substantial part of my research relates to lignocellulosic biomass conversion via catalytic pyrolysis. My visit to the Centre for Research and Technology Hellas (CERTH) in Greece to use the laboratories at its Chemical Process and Energy

The aim of my visit was to investigate the effect of acid pre-treatment and modified catalysts on the yield and compositions of bio-oil obtained from the fast pyrolysis of lignocellulosic biomass using CPERI's bench-scale unit with a fixed bed reactor. Preparation and characterisation methods of catalysts and their use in

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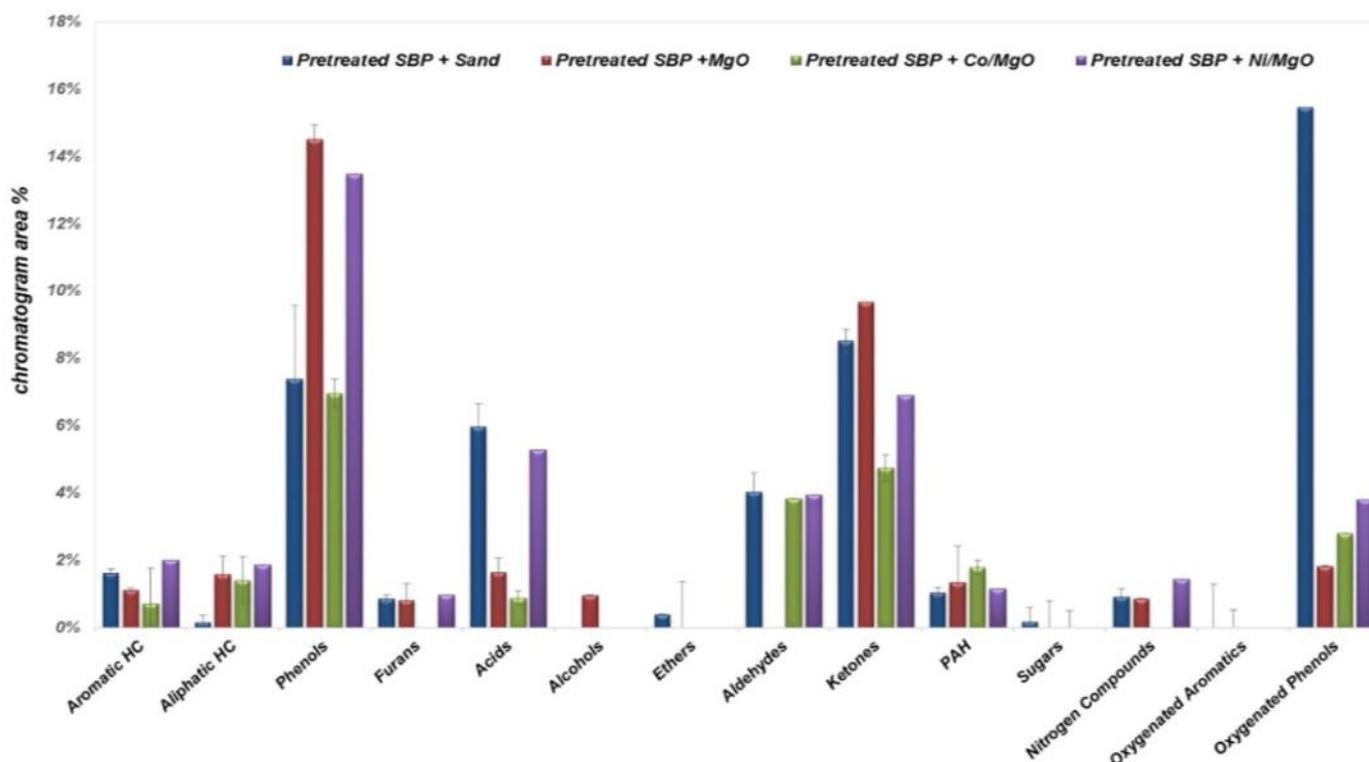


Figure 2: Graph detailing properties of the bio-oil product used in the experiments.

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Figure 5: Elif and the CERTH/CPERI team.

experiments. The aim was to gain an insight into the optimum preparation method for the modified catalyst and with the aid of PhD students from CERTH, I was able to do this. The modified catalysts were characterised to determine their significant physicochemical properties and then were used in catalytic pyrolysis experiments in order to identify the effects on the pyrolytic product.

Applying to take part in a BRISK Transnational Access project was quite easy and simple. Once I had completed the form concerning the purpose of my study, I contacted the host organisation (CERTH/CPERI) to discuss further details. After we planned the experimental methods and materials, I submitted my application and in less than two months I received approval. Visiting CERTH through the BRISK

Transnational Access programme was an influential experience for both my technical and professional development. I had a chance to observe different methods and approaches under the tutelage of staff from CPERI laboratories.

Acknowledgements

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