

Article

Torrefaction upgrading of cork and chlorine-containing plastic waste blends

Andrei Longo ¹, Catarina Nobre ², Ali Şen ³, Roberta Panizio ², Paulo Brito ² and Margarida Gonçalves ^{1,2,*}

¹ Mechanical Engineering and Resource Sustainability Center, Department of Chemistry, Faculty of Sciences and Technology, NOVA University of Lisbon, Campus de Caparica, 2829-516 Caparica, Portugal

² VALORIZA—Research Centre for Endogenous Resource Valorization, Polytechnic Institute of Portalegre, Campus Politécnico 11, 7300-555 Portalegre, Portugal

³ Forest Research Centre, School of Agriculture, University of Lisbon, Tapada da Ajuda, 1349-017 Lisboa, Portugal

* Correspondence: mmpg@fct.unl.pt

Supplementary Materials

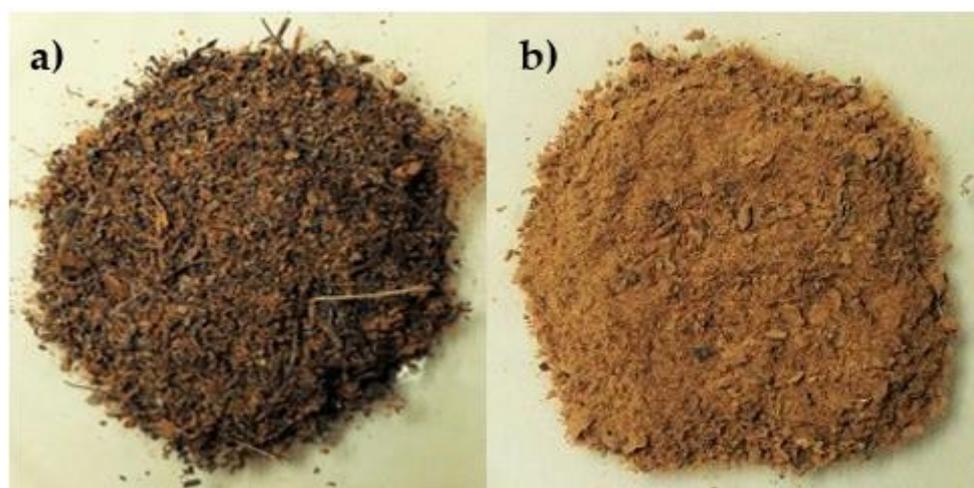


Figure S1. Refuse derived fuel composed of cork and polymer wastes used in the torrefaction tests: (a) CPW-1 and (b) CPW-2.

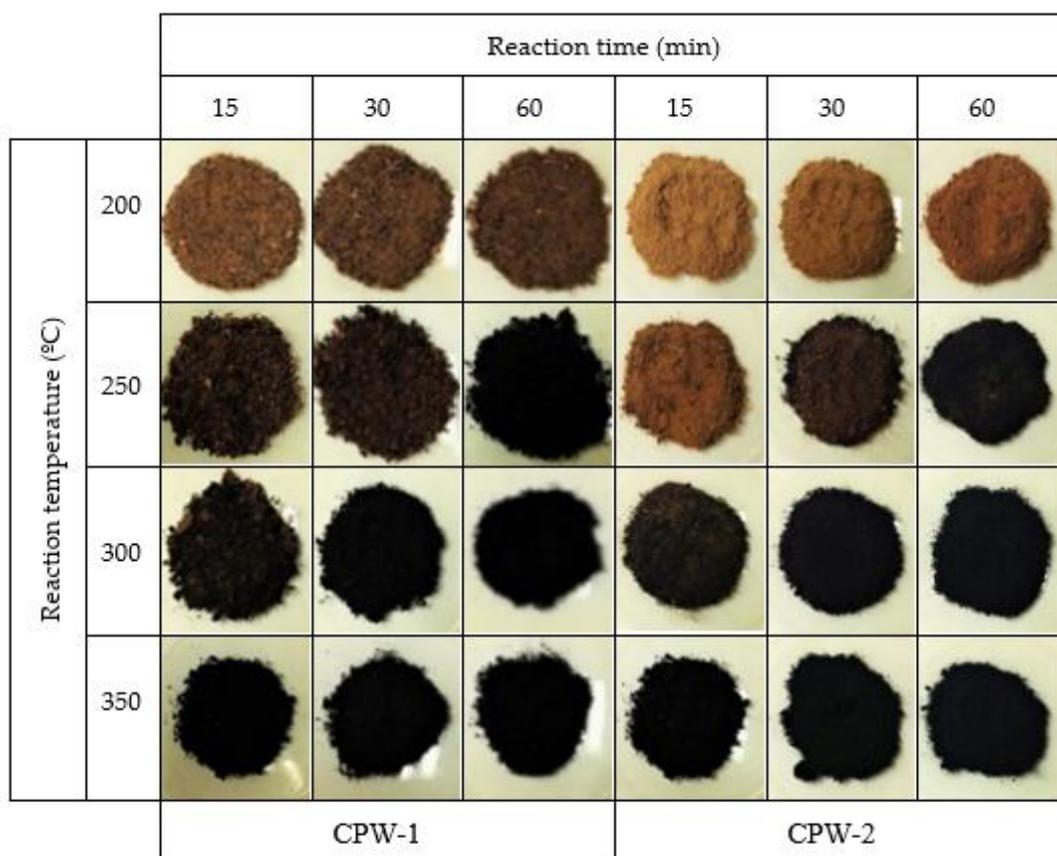


Figure S2. Appearance of the chars obtained at different temperatures and residence times from CPW-1 and CPW-2.

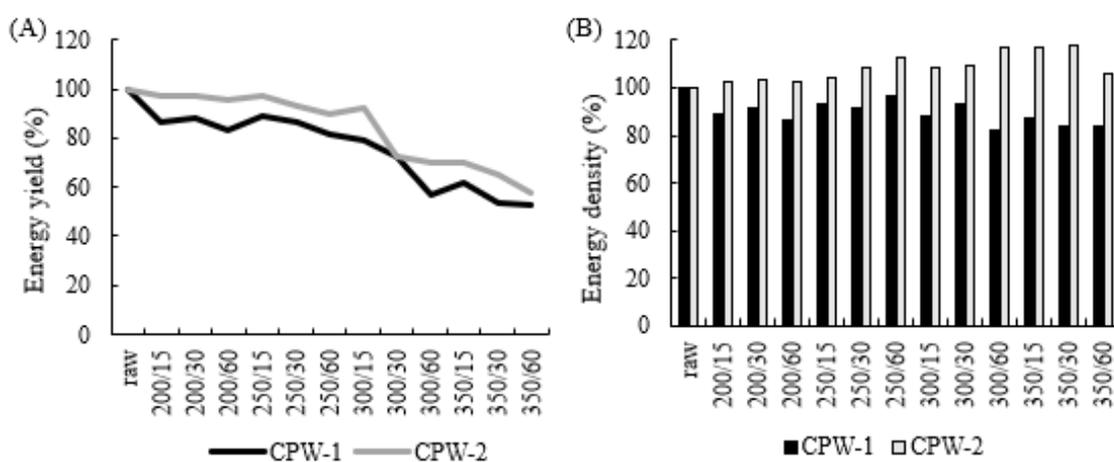


Figure S3. (A) Energy yield and (B) energy density of biochars compared to raw wastes.