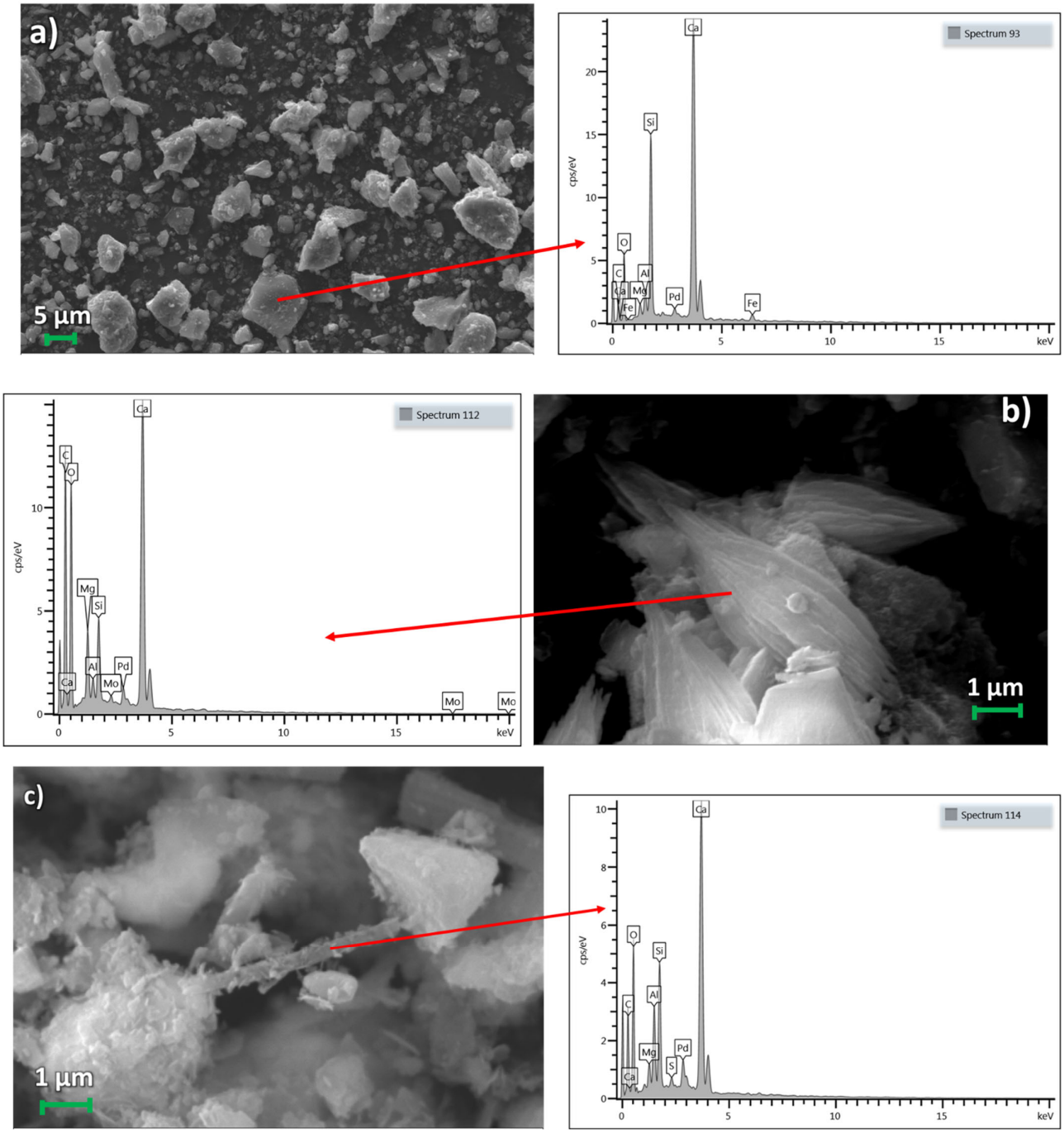

Figure S1. SEM images of LF_2 (a), carbonated LF_2 (b) and c) carbonated AOD_1

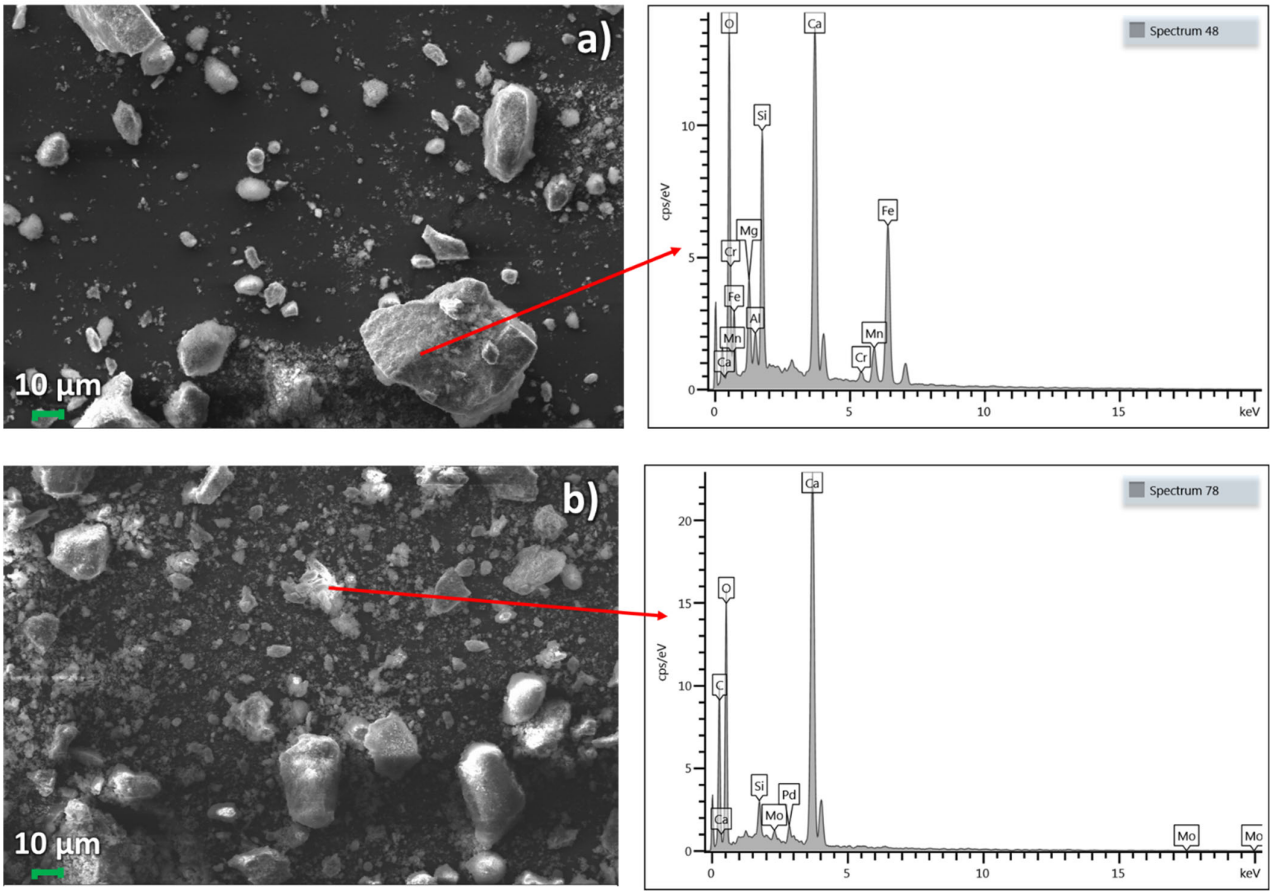

Figure S2. SEM images of EAF_3 + SiO_2 (a) and EAF_3 + SiO_2 carbonated (b) products.

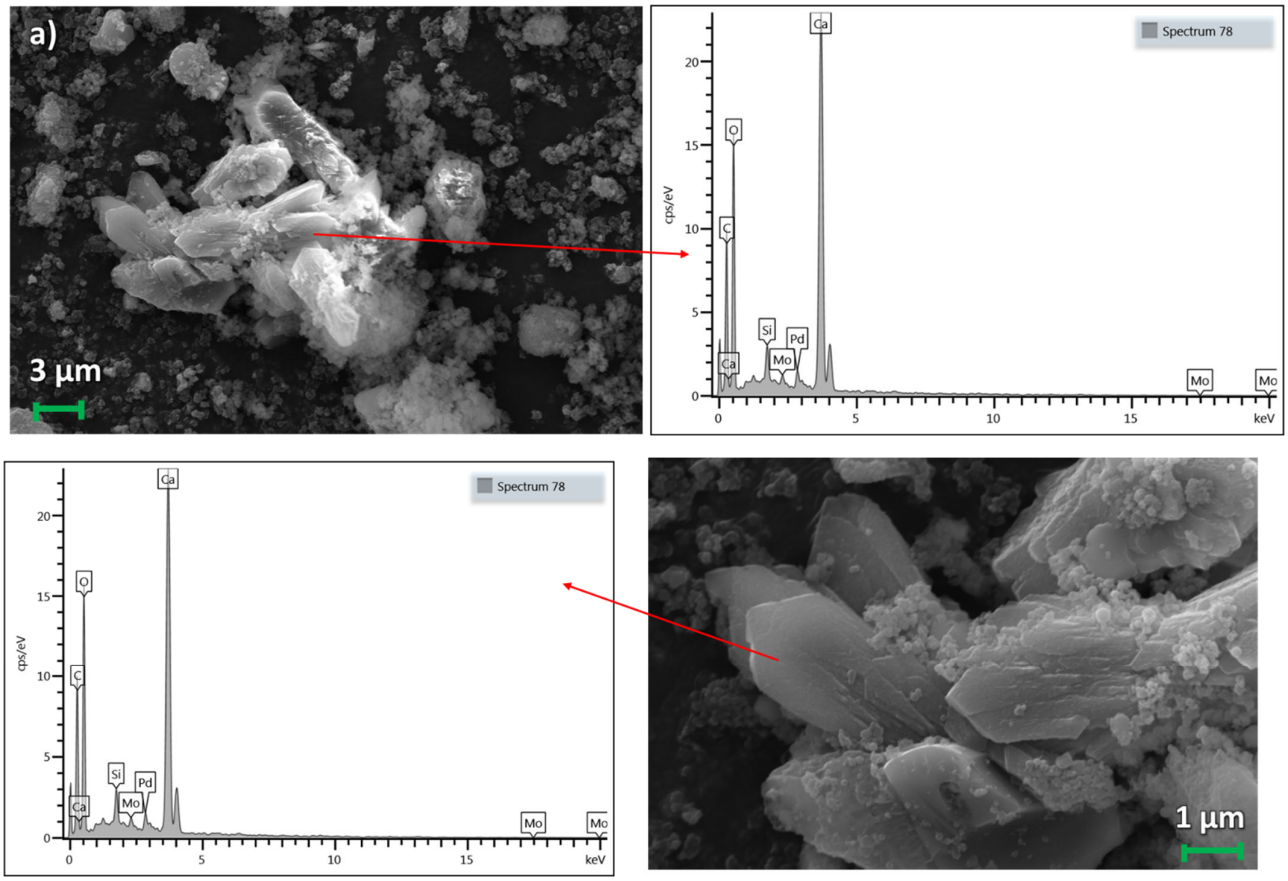

Figure S3. SEM images of calcite present in EAF_3 + SiO_2_carbonated at 5000X (a) and 15000X (b).

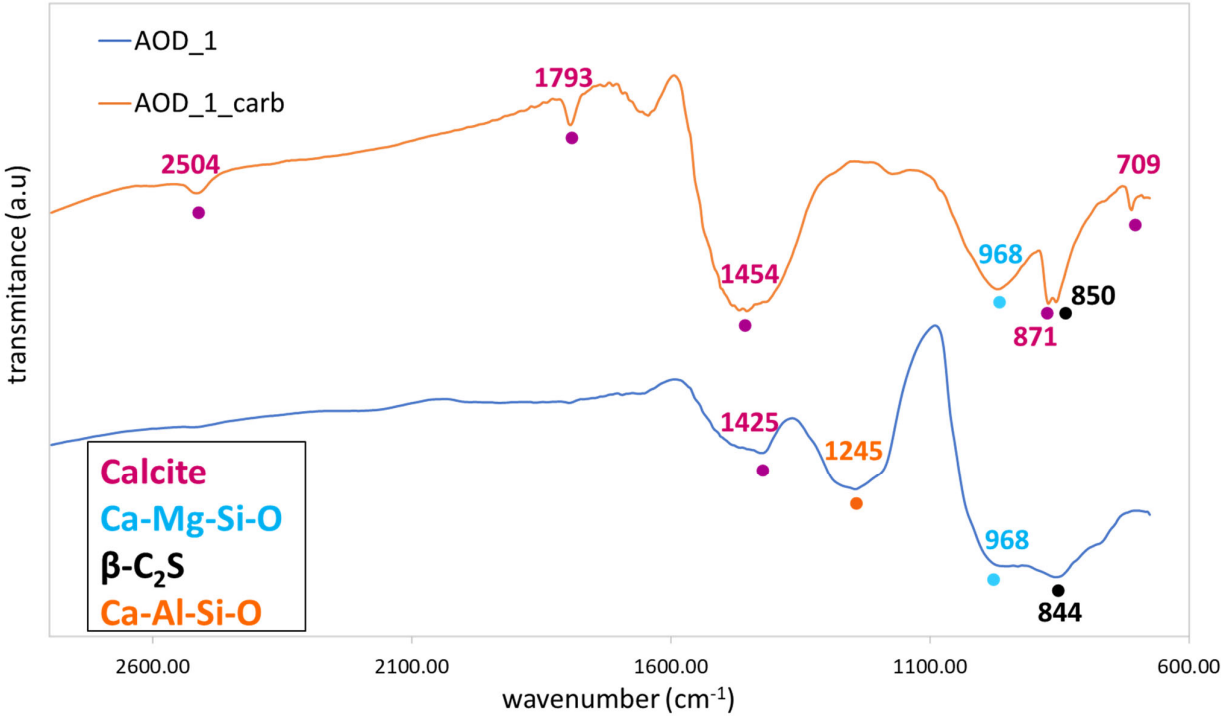

Figure S4. IR spectrum of AOD_1 and AOD_1_carbonated.

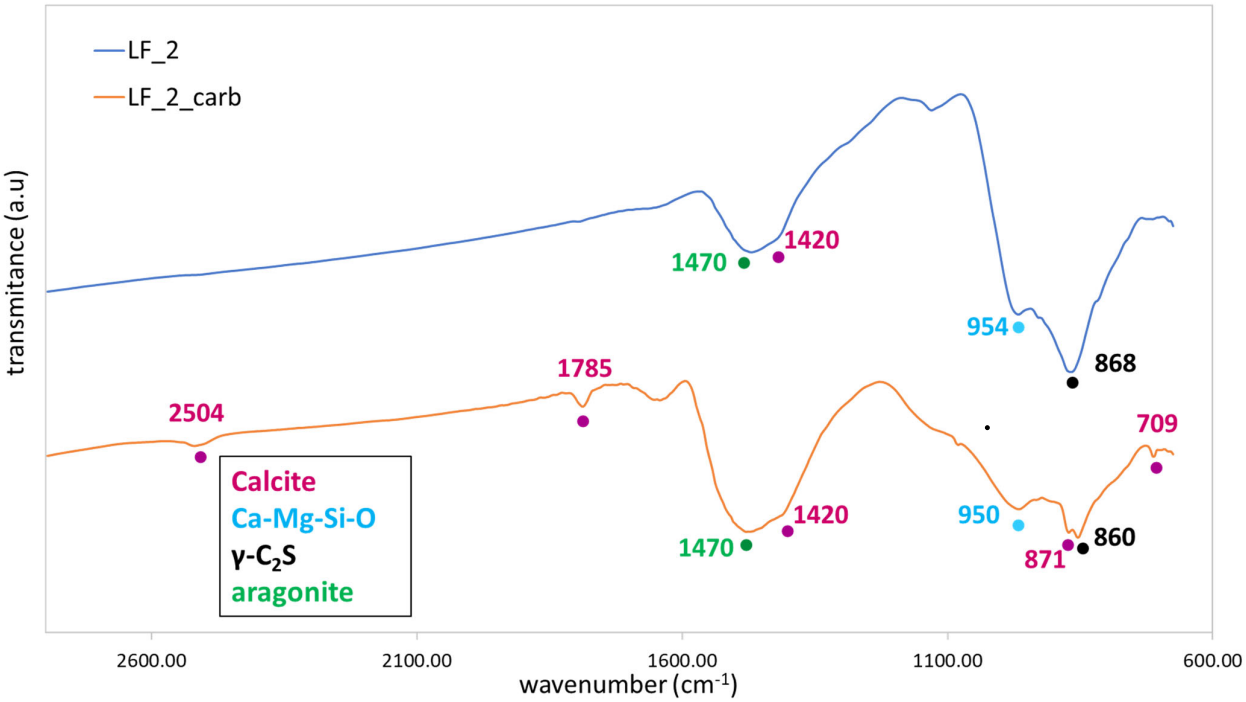

Figure S1. IR spectrum of LF_2 and LF_2_carbonated.

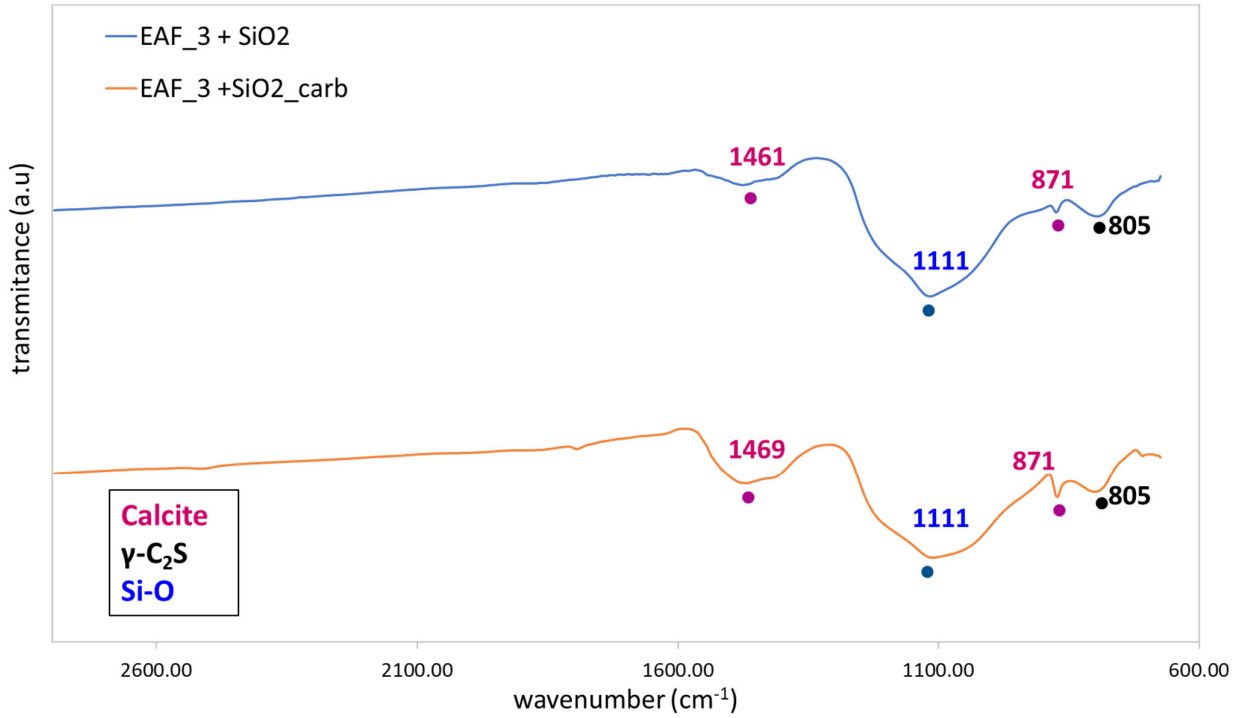

Figure S6. IR spectrum EAF_3 + SiO_2 and EAF_3 + SiO_2_carbonated.

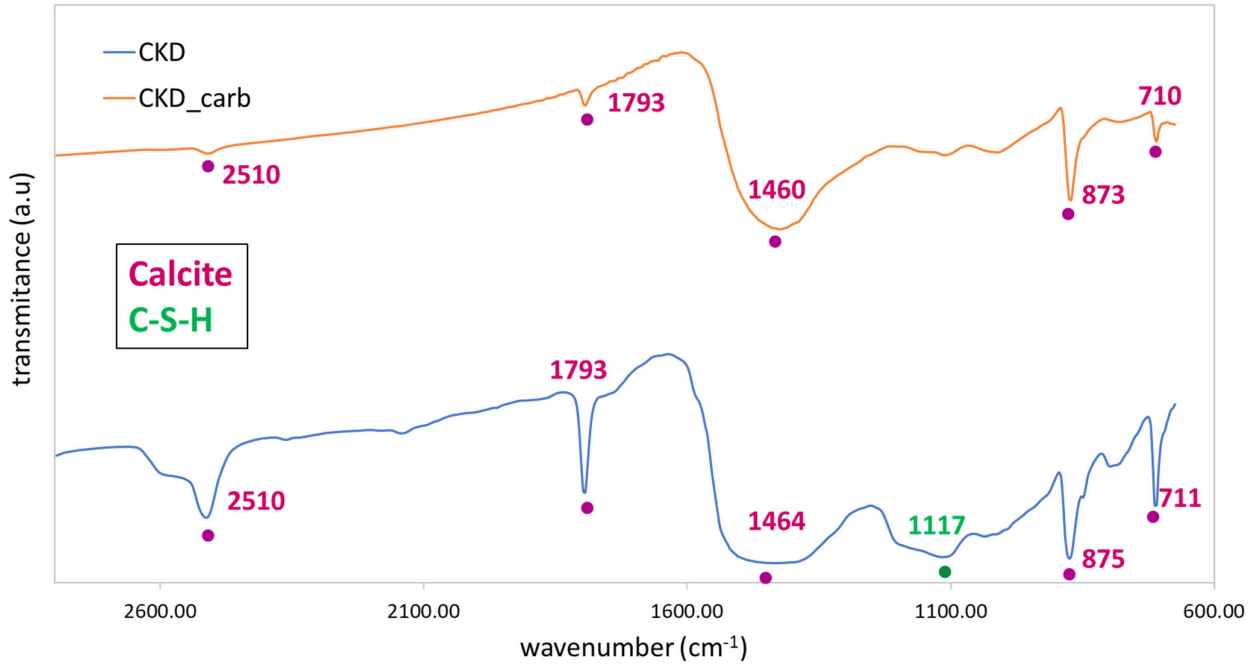

Figure S7. IR spectrum of CKD and CKD_carbonated.