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# CHARACTERIZATION OF AGAVE BAGASSE AS A FUNCTION OF IONIC LIQUID PRETREATMENT

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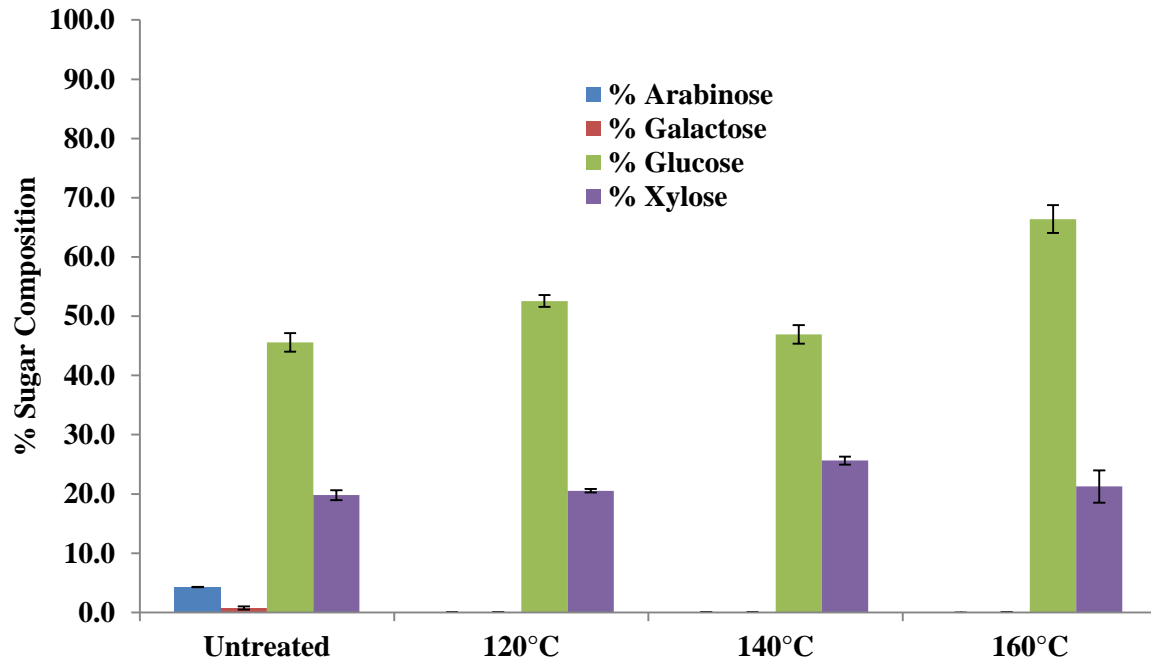
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Laboratory, Emeryville, CA, United States

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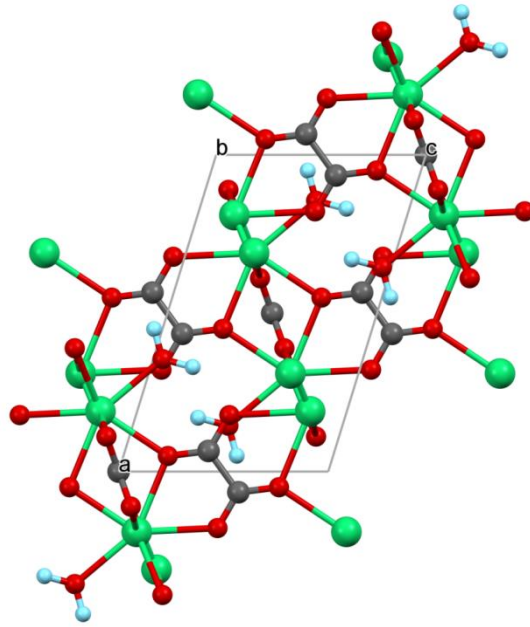
<sup>e</sup>Sandia National Laboratories, Energy Nanomaterials Department, Livermore, CA, United States

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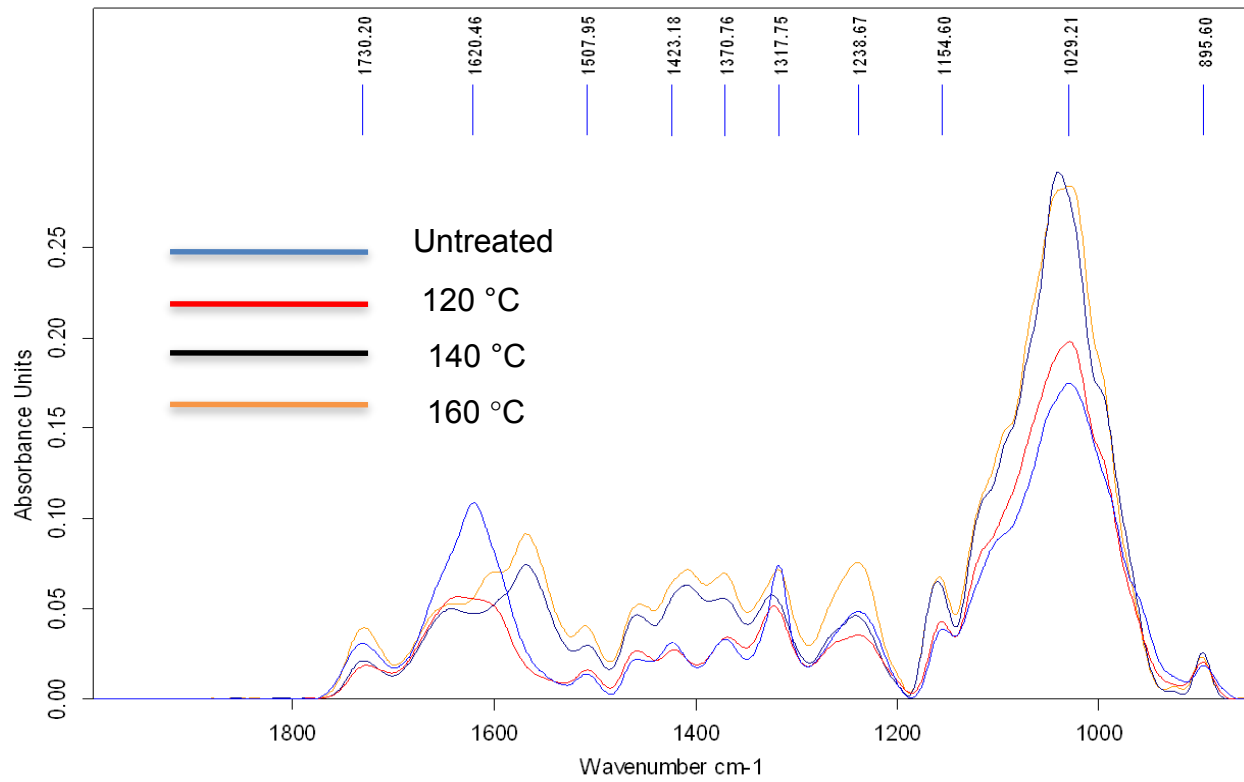
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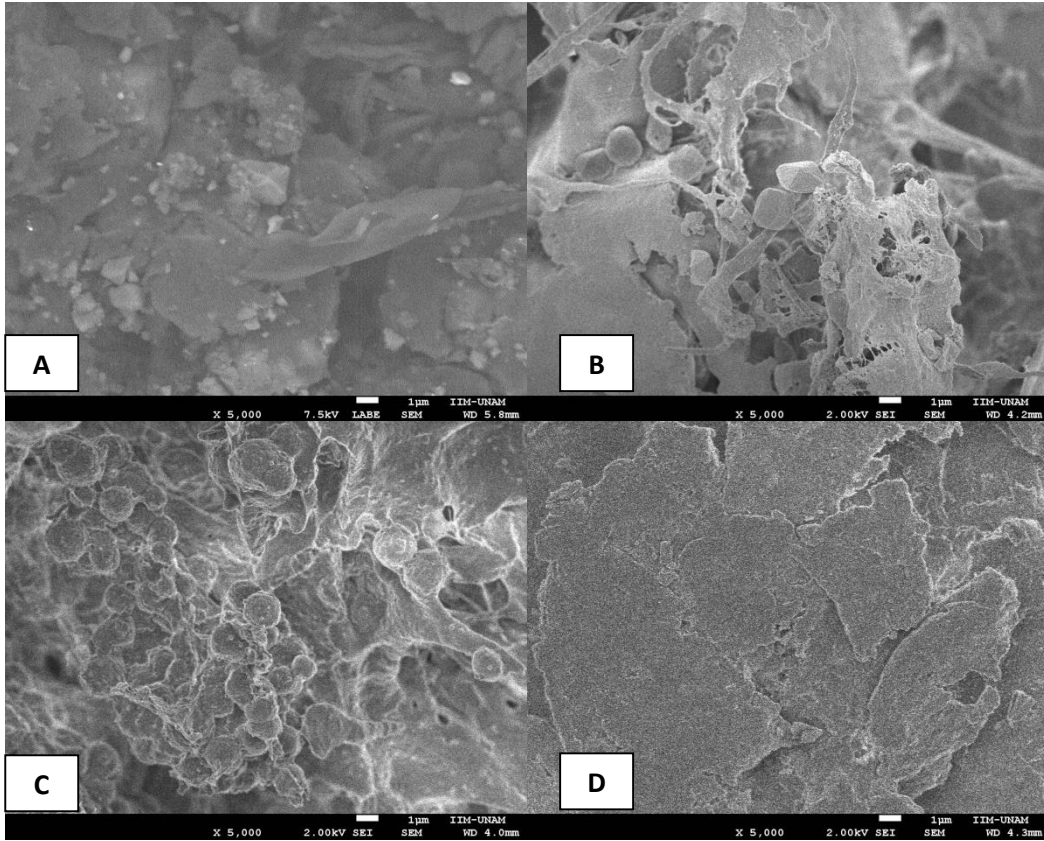
**Figure I.** Monosaccharide composition of untreated and pretreated AGB samples. Error bars show the standard deviation of triplicate measurements.



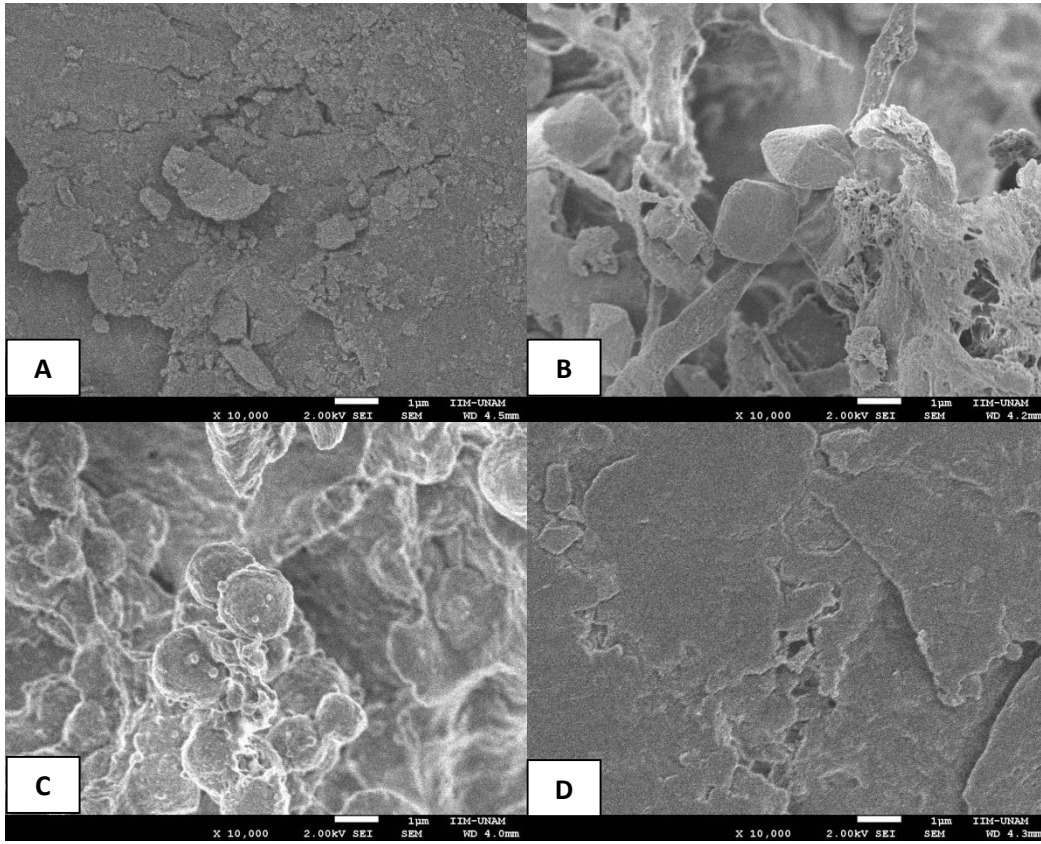
**Figure II.** Crystal structure of calcium oxalate monohydrate viewed along the *b* axis.



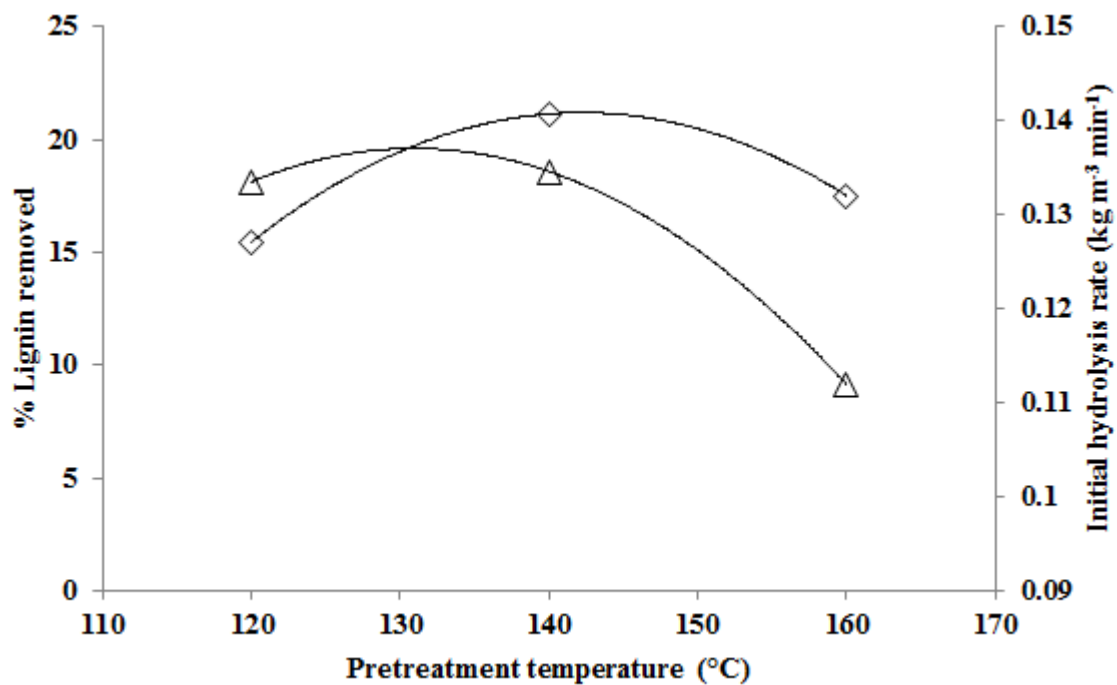
**Figure III.** Chemical changes in AGB as a function of IL pretreatment as determined by ATR-FTIR.



**Figure IV.** FE-SEM images of AGB at 5000 x magnification, a) untreated, b) IL-120 °C, c) IL-140 °C and d) IL-160 °C.



**Figure V.** FE-SEM images of AGB at 10000 x magnification, a) untreated, b) IL-120 °C, c) IL-140 °C and d) IL-160 °C.



**Figure VI.** Effect of ionic liquid pretreatment temperature on AGB, delignification and correlation between delignification efficiency and enzymatic hydrolysis kinetics.