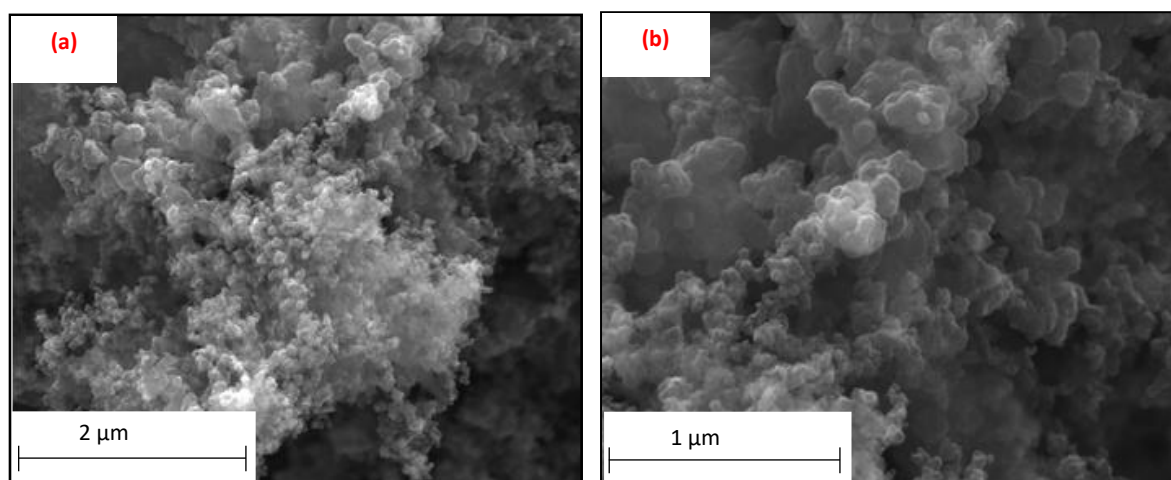
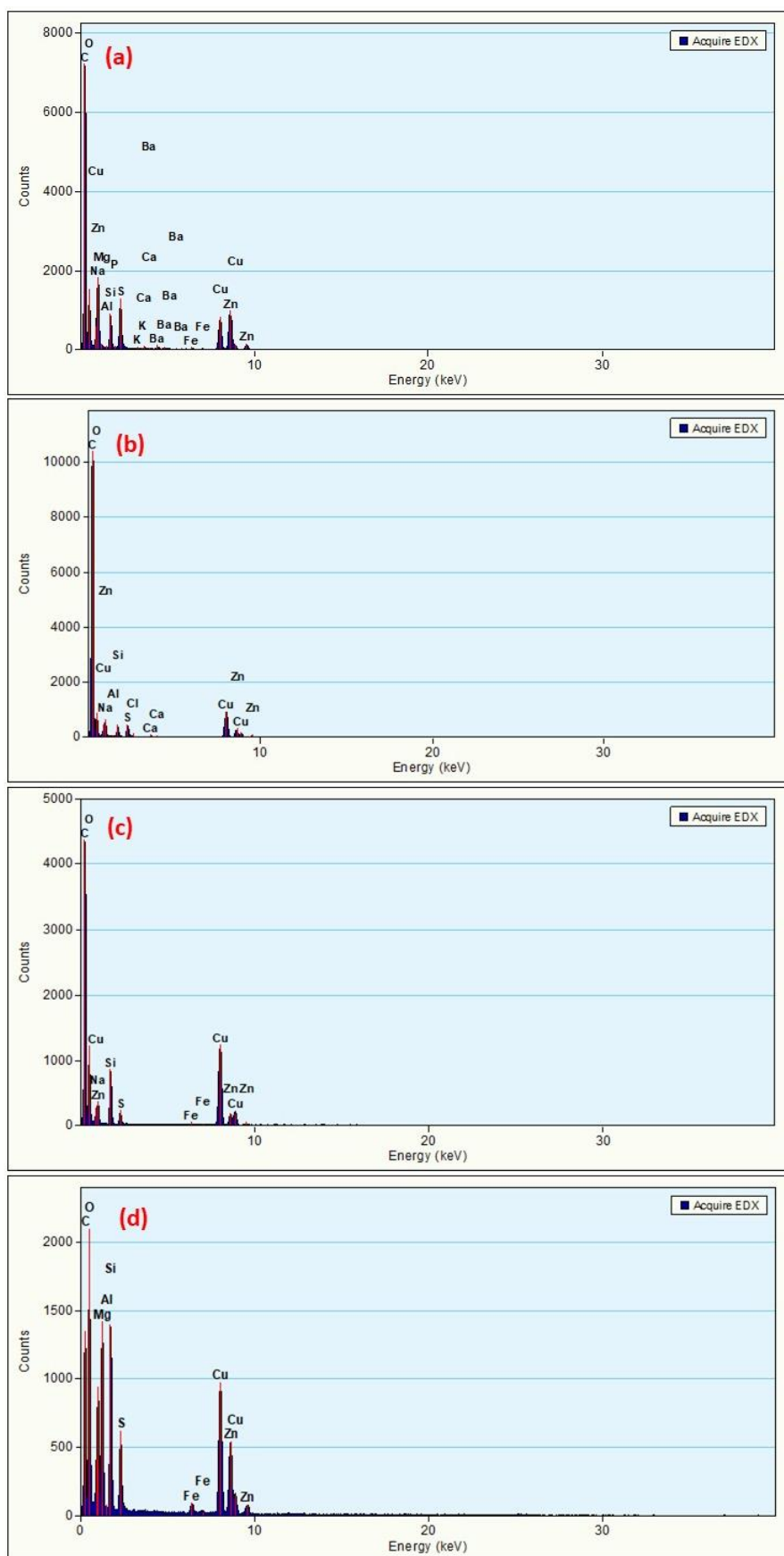


# SUPPLEMENTARY MATERIAL

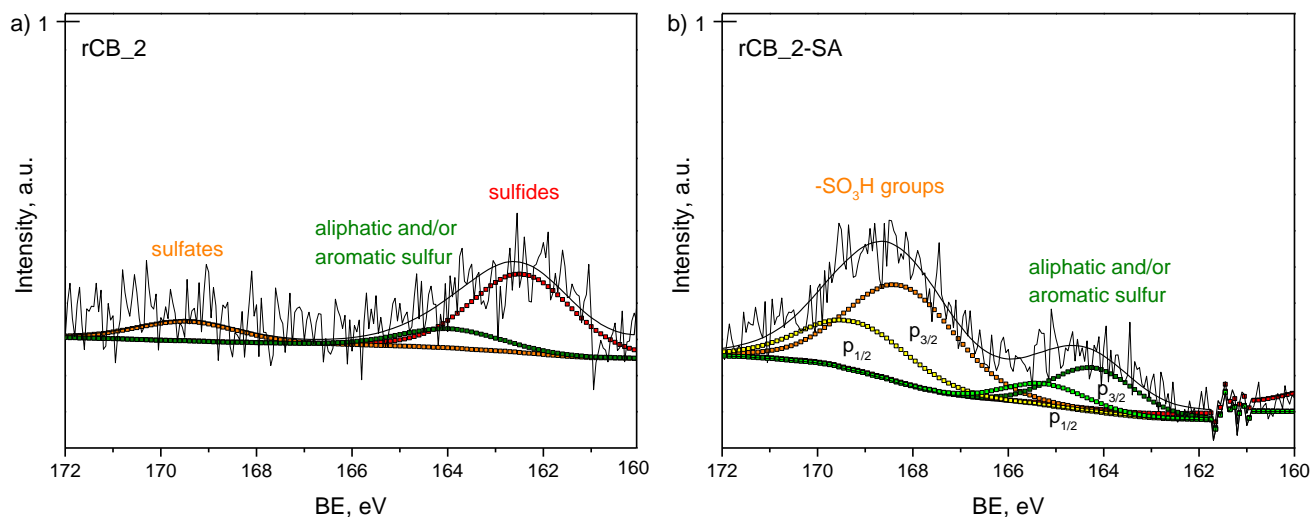
## Upgrading Pyrolytic Residue from End-of-Life Tires to Efficient Heterogeneous Catalysts for the Conversion of Glycerol to Acetins



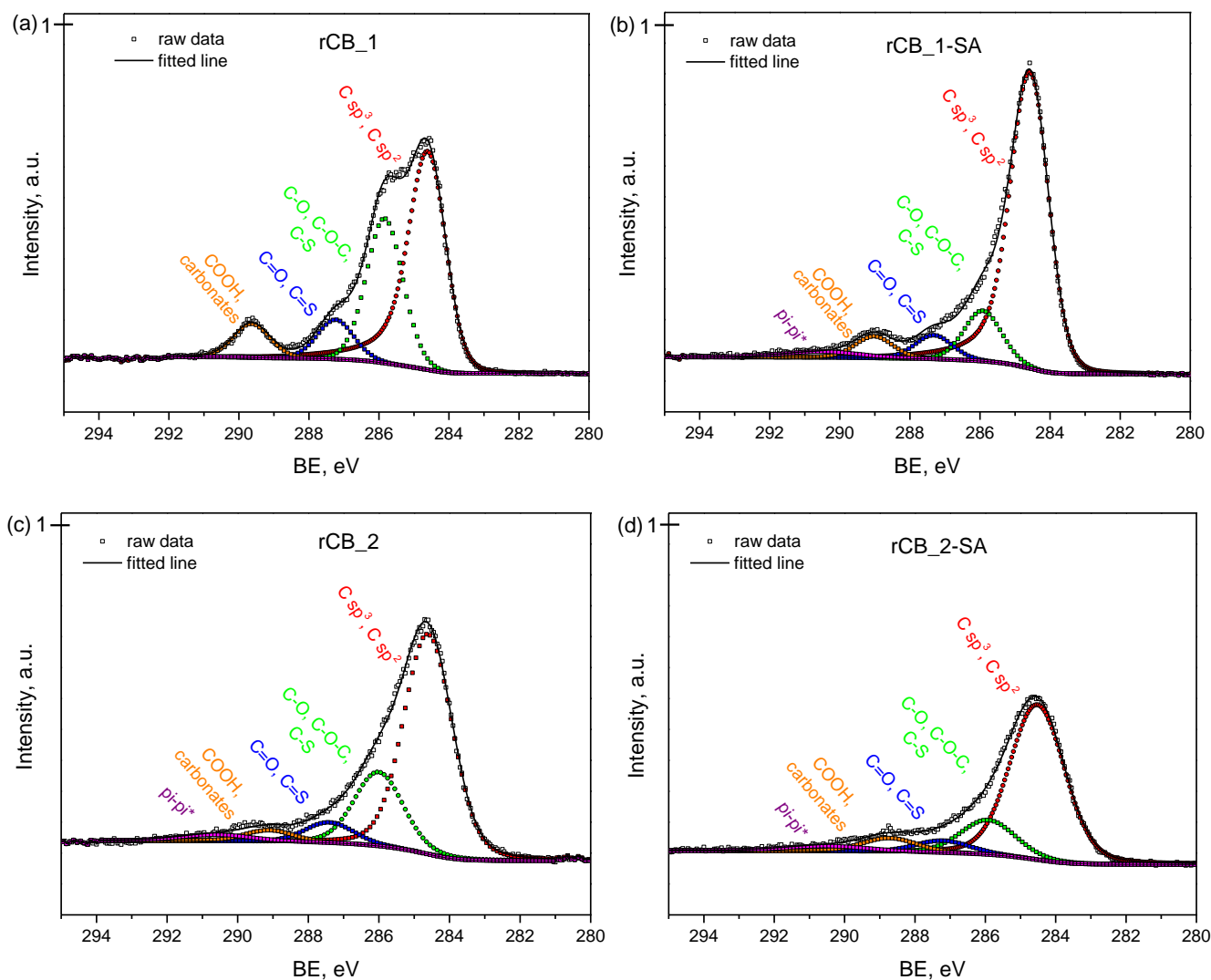
**Figure S1.** SEM images of a commercial CB in lower (a) and higher (b) magnification (the sample analyzed using FEI Quanta 400 FEG ESEM/EDAX Pegasus X4M apparatus).



**Figure S2.** The EDX spectra of pyrolytic carbon black samples taken from different spots: (a) and (b) rCB\_1; (c) and (d) rCB\_2.



**Figure S3.** The high-resolution XPS S 2p spectra of rCB\_2 (a), and rCB\_2-SA (b) (spin-orbit splitting in (a) omitted for clarity).



**Figure S4.** The high-resolution XPS C 1s spectra of (a) rCB\_1, (b) rCB\_1 modified with sulfuric acid, (c) rCB\_2, and (d) rCB\_2 modified with sulfuric acid.

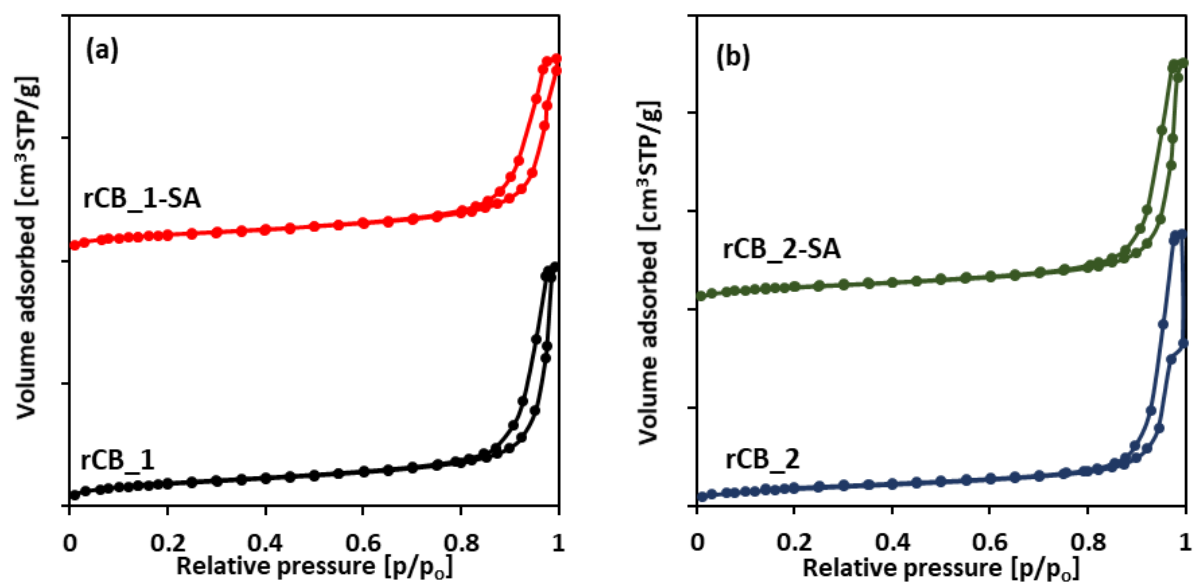


Figure S5. The N<sub>2</sub> adsorption-desorption isotherms of the pristine and sulfonated rCB\_1 (a) and rCB\_2 (b).