

Table S1: Physical chemistry and elemental analysis of corn Stover after hydrothermal processing at 175, 200, 225, and 250 °C, 240 m, and biomass/H₂O ratio of 1:10, using a reactor of 18.927 L. (MM = Moist Matter, TS = Total Solids.) [52].

Biochar Elemental Analysis	Temperature [°C]			
	175	200	225	250
TS 60°C-105°C %MM	98.83	98.34	97.83	97.75
N % [TS]	0.596	0.630	0.736	0.861
C % [TS]	49.04	51.19	56.73	59.17
S % [TS]	0.3133	0.2380	0.2147	0.2353
H % [TS]	7.124	6.655	6.500	5.719
O % [TS]	30.60	29.31	25.75	24.75
Ash % [TS]	12.62	11.9	10.07	9.26

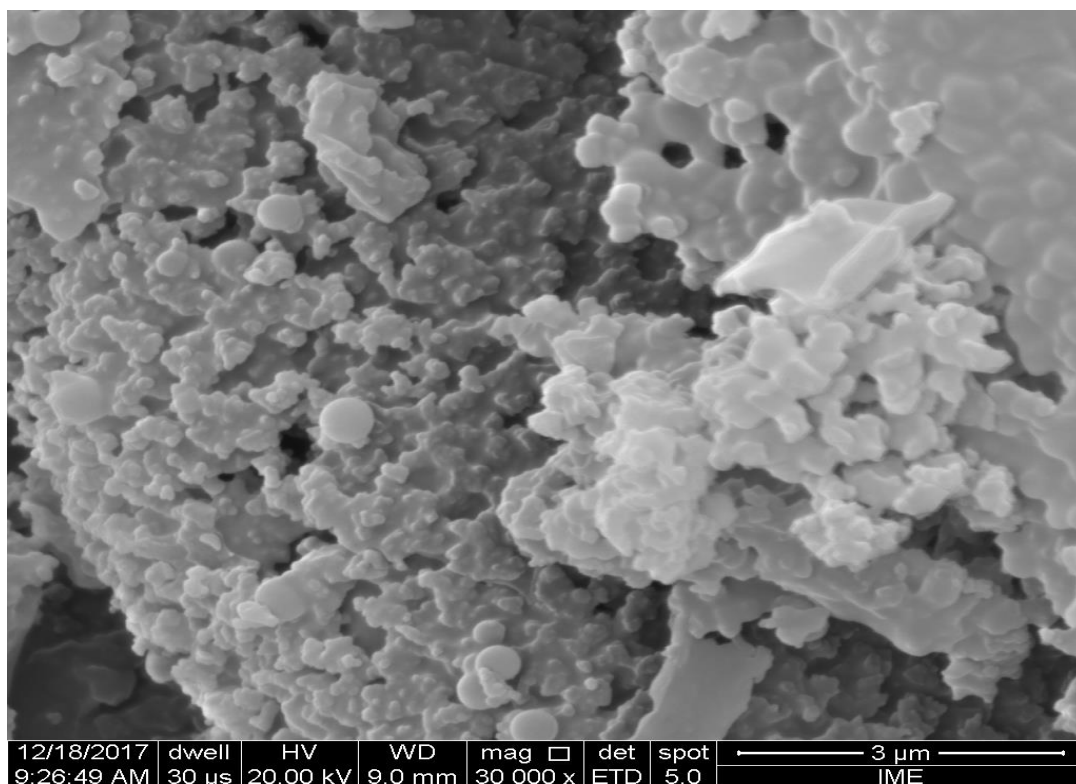


Figure S1: SEM of corn Stover after hydrothermal processing at 225 °C, 240 minutes, and biomass/H₂O ratio of 1:10, using a reactor of 18.927 L (Mag: 30000x).

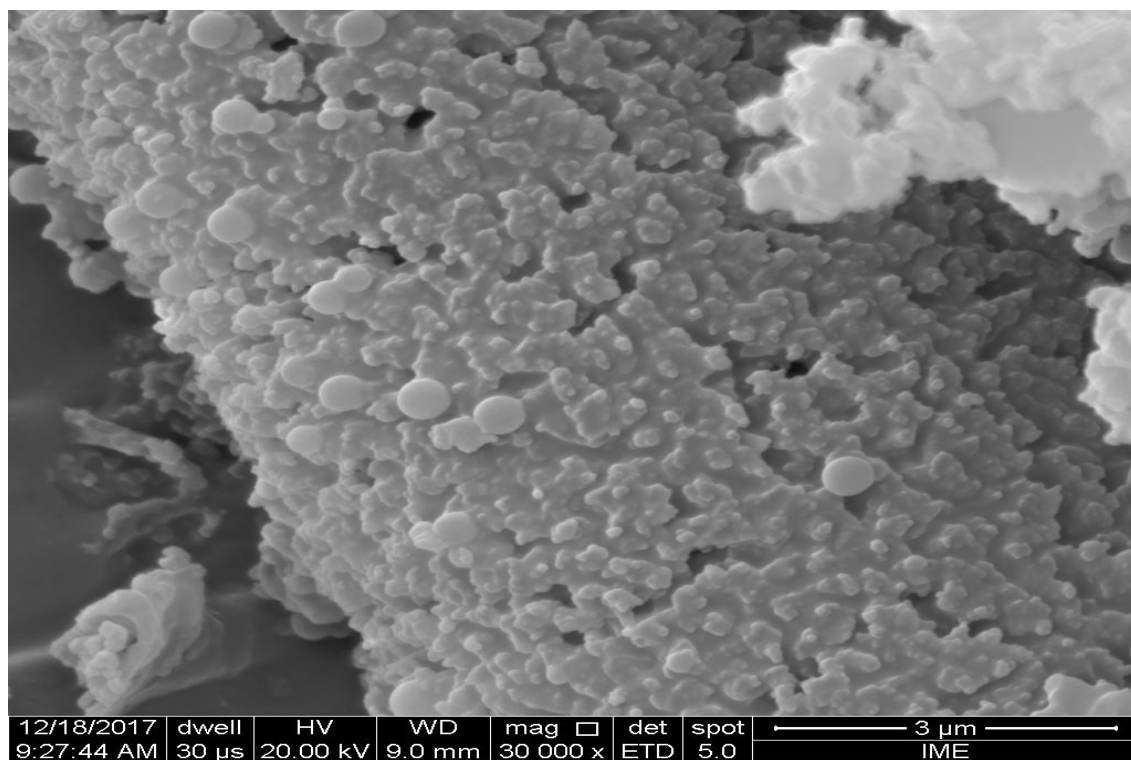


Figure S2: SEM of corn Stover after hydrothermal processing at 225 °C, 240 minutes, and biomass/H₂O ratio of 1:10, using a reactor of 18.927 L (Mag: 30000x).