

Supplementary Materials

Industrially relevant hydrolyzability and fermentability of sugarcane bagasse improved effectively by glycerol organosolv pretreatment

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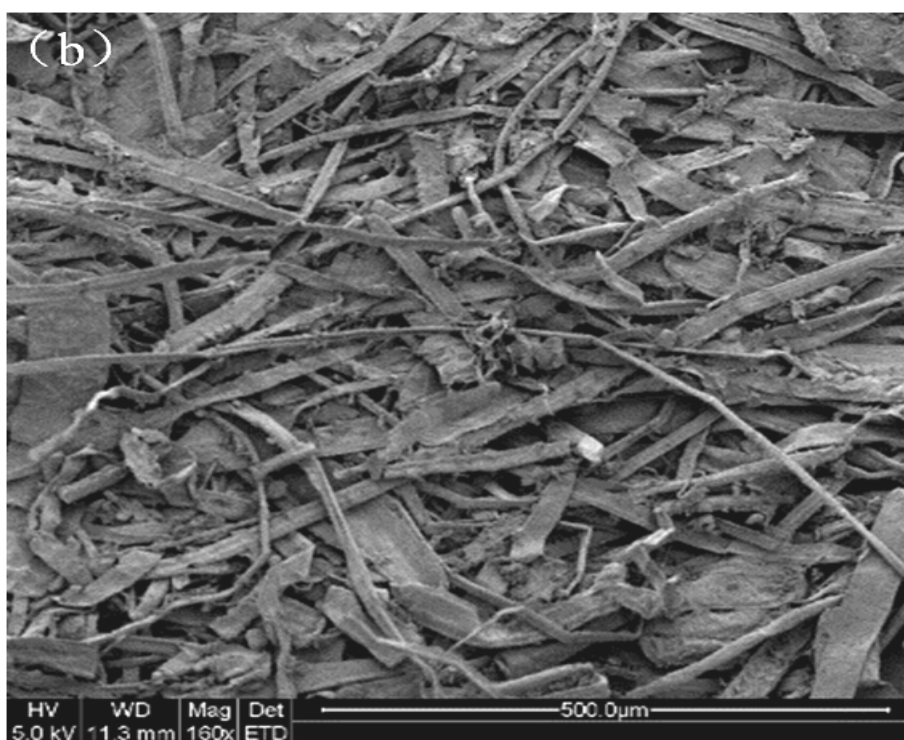
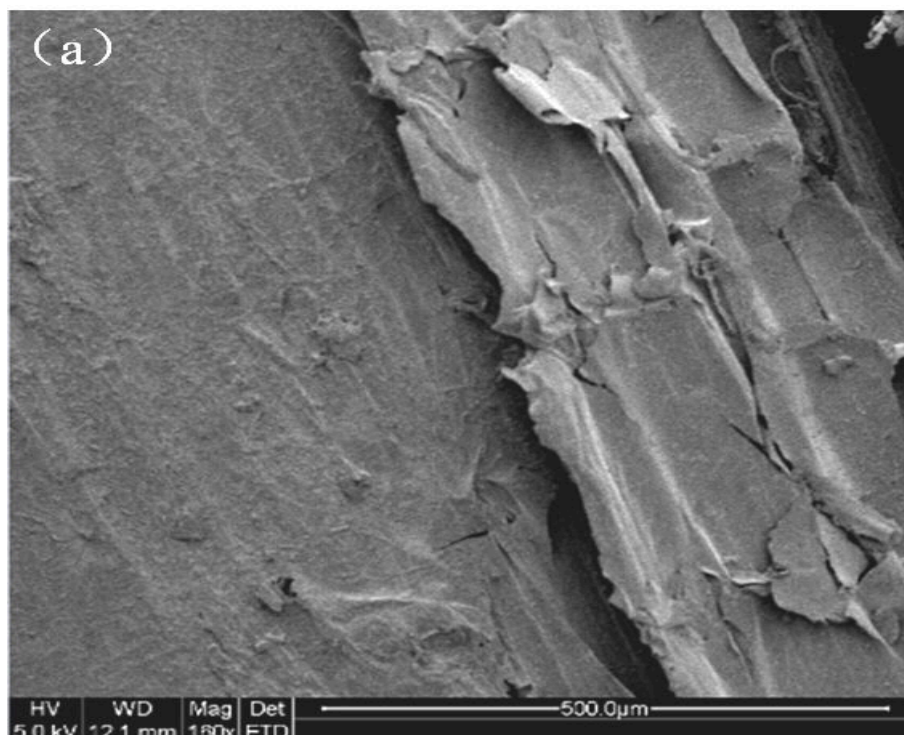
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Table S1 Root mean square values of roughness measured from AFM images given in nanometer and the average value calculated from the three images

Sample	Roughness (nm)			Average (nm)
	1	2	3	
Original	41.8	67.5	87.1	65.5
Pretreated	86.4	137	90.3	104.6

Figure S1 SEM images of the sugarcane bagasse (a) before, (b) after and (c) the AGO pretreatment performed at 220 °C for 2 h with a stirring speed of 150 rpm. Green broken circles denote the irregular deposit.



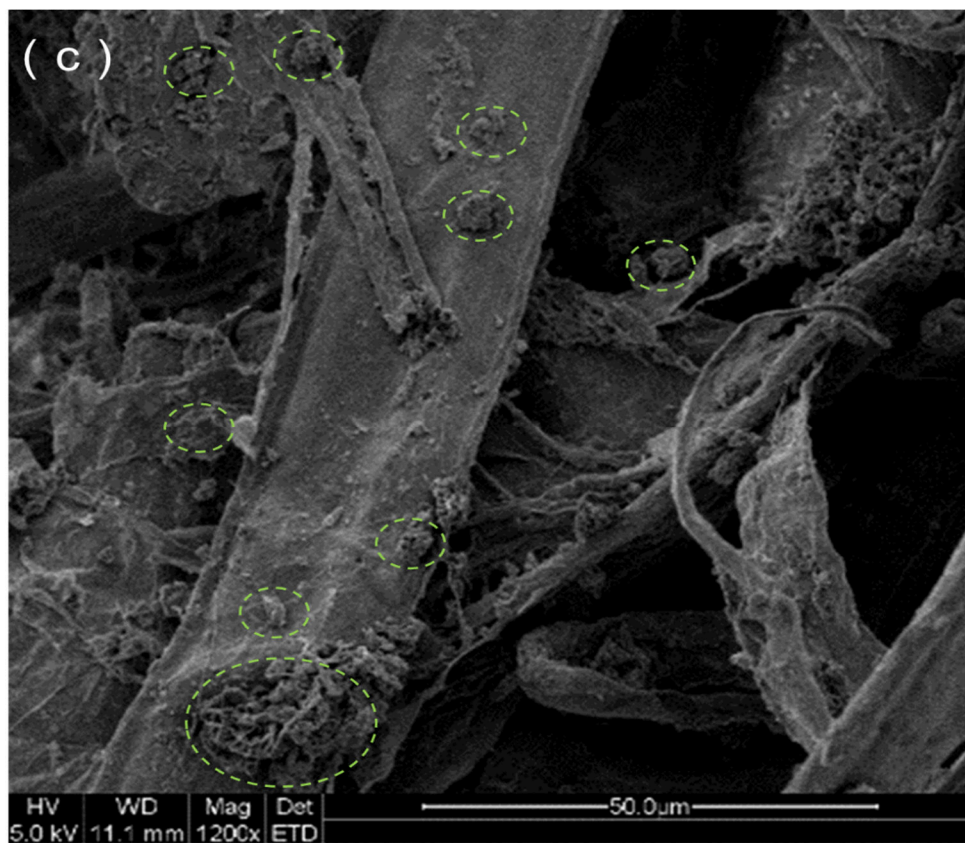
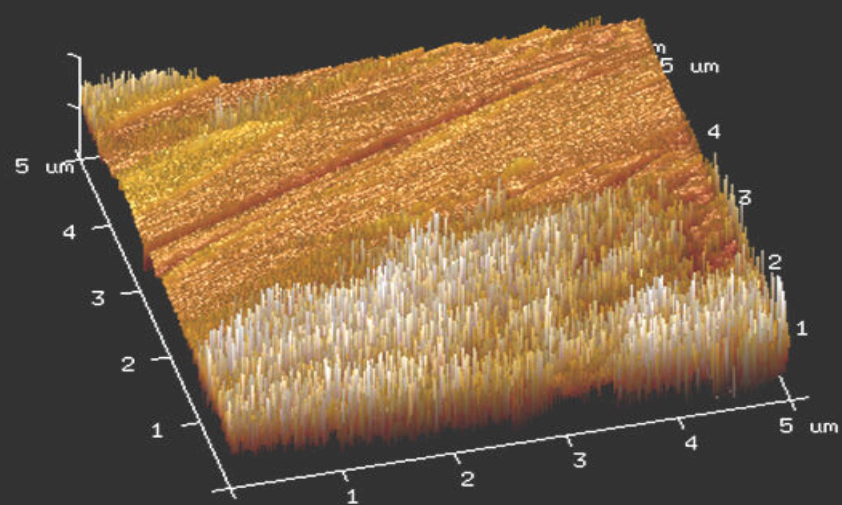


Figure S2 AFM-phase contrast images of the sugarcane bagasse before (a, b) and after (c, d) the AGO pretreatment performed at 220 °C for 2 h in with a stirring speed of 150 rpm. The images (a) and (c) depict the wall surface, and (b) and (d) are the corresponding 3D images of (a) and (c). White and green broken circles denote the spherical lignin deposits and lignin-carbohydrate complex (LCC), respectively.



(b)



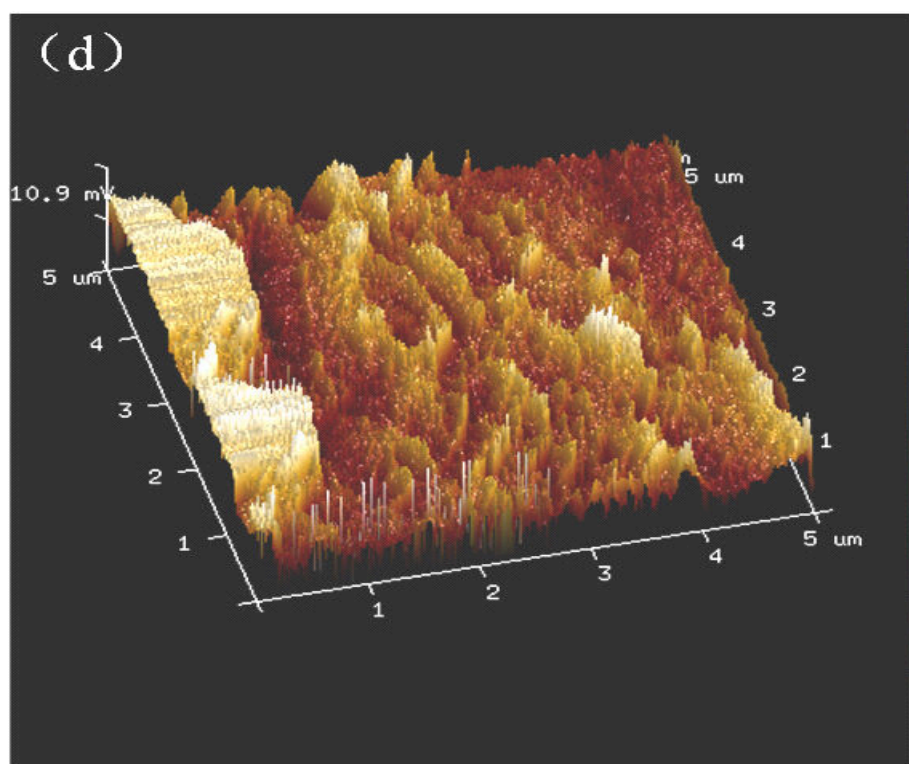
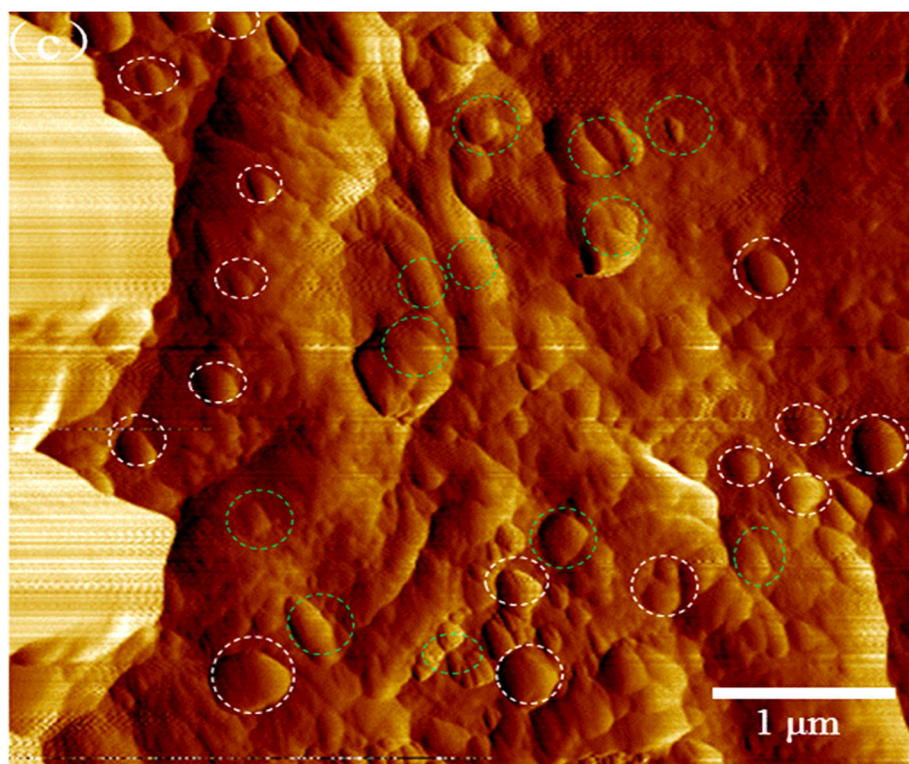


Figure S3 FT-IR spectra of the sugarcane bagasse (a) before and (b) after the AGO pretreatment performed at 220 °C for 2 h with a stirring speed of 150 rpm

