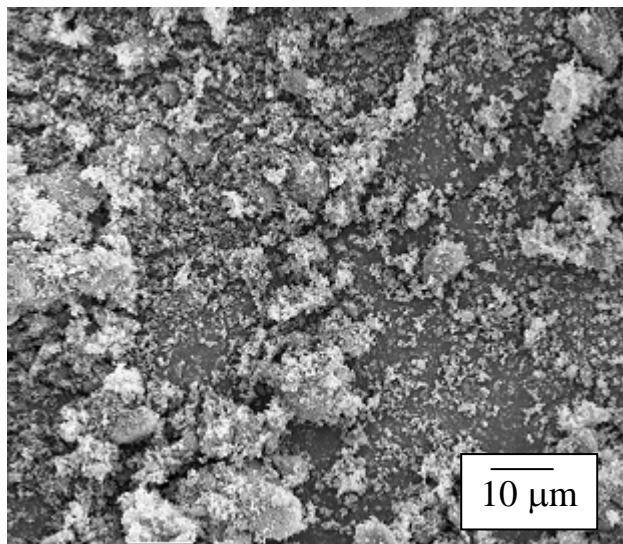
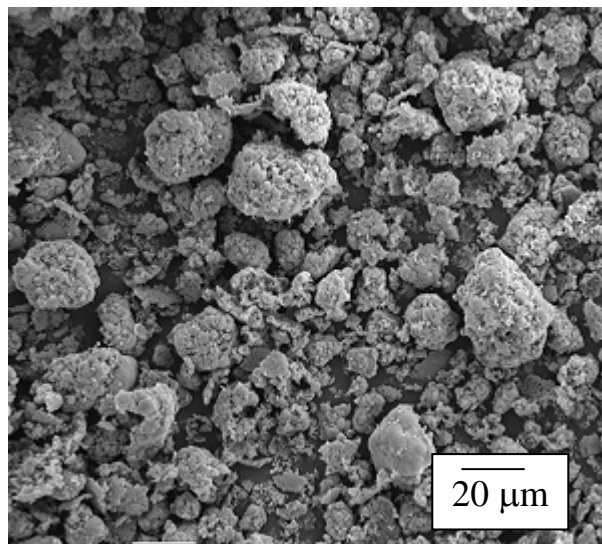


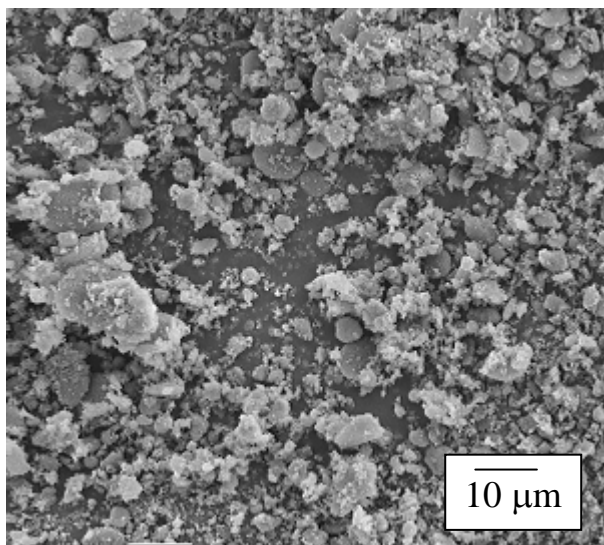
H-ZSM5 (45)



H-mordenite (10)



H-beta (13)



H-beta (75)

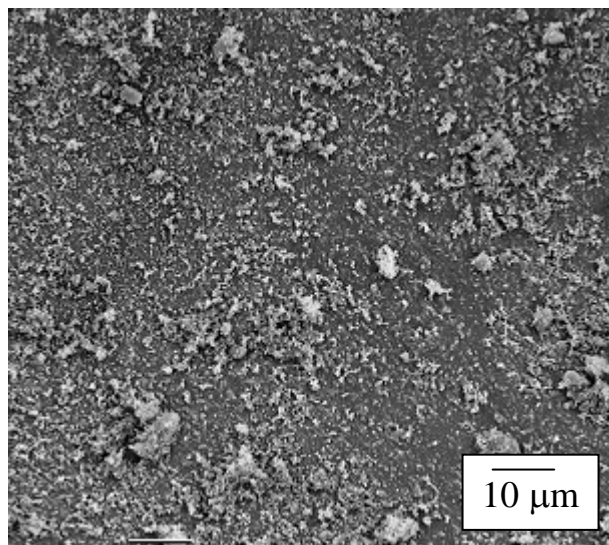
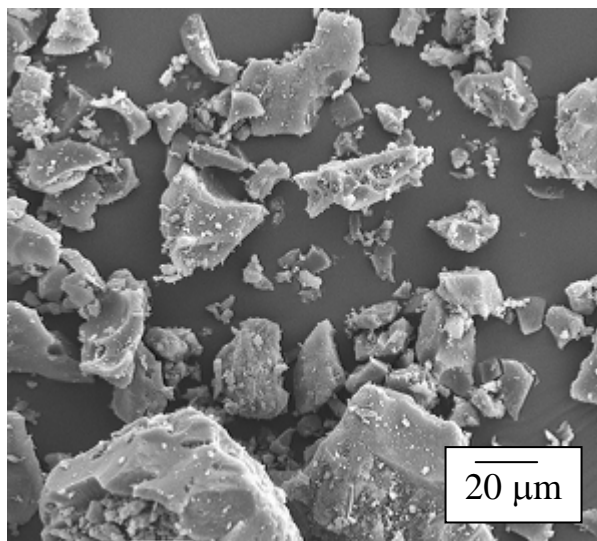
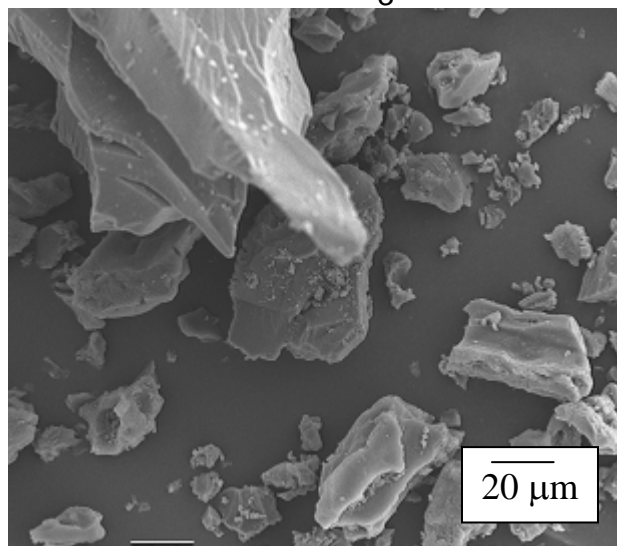


Figure S1. SEM images of the tested catalysts.

AC



AC-SO₃H



Sulfated zirconia

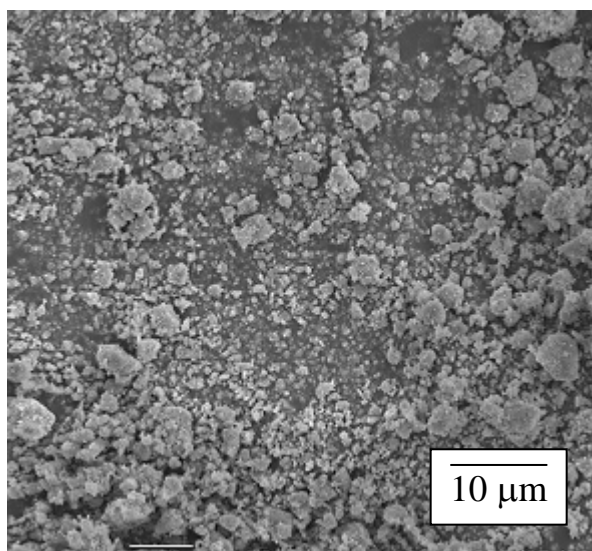


Figure S1. SEM images (continuation).

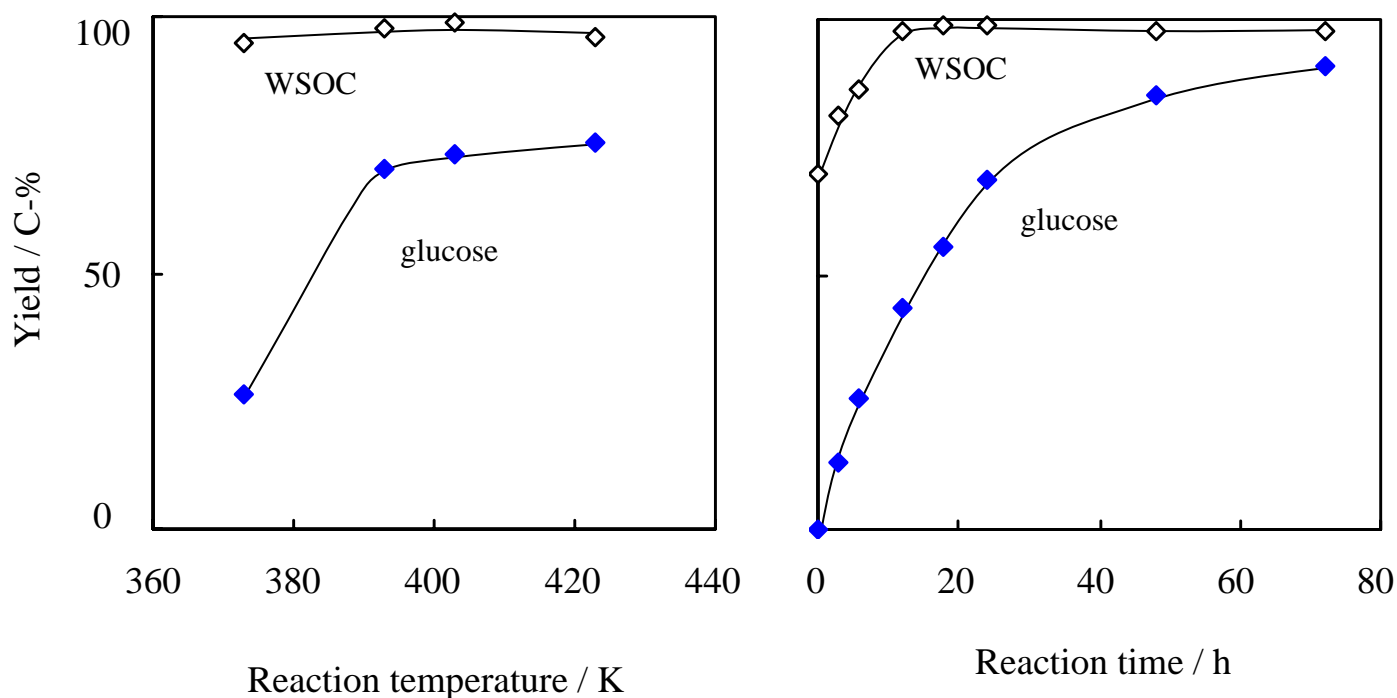


Figure S2. Effect of reaction temperature (a) and reaction time (b) on the starch hydrolysis using the AC-SO₃H catalyst. Reaction conditions; reaction time 24 h (a), reaction temperature 393 K (b). catalyst 50 mg, starch 45 mg, distilled water 5 mL, agitation.