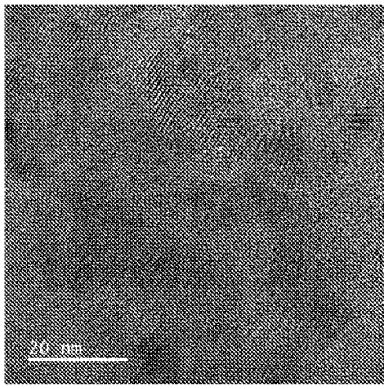


FIG. 1A

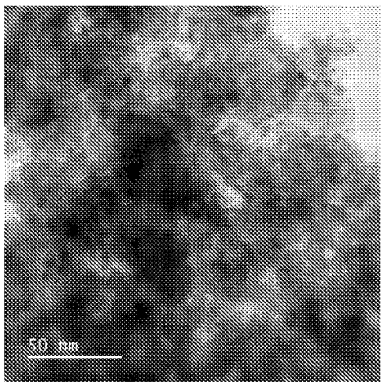


FIG. 1B

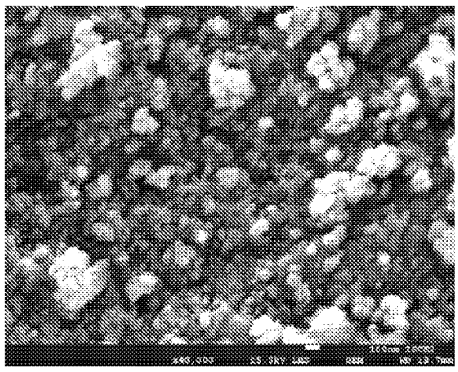


FIG. 2

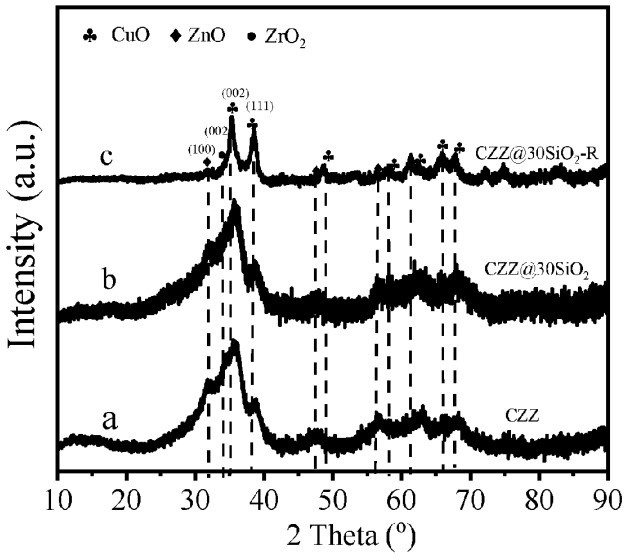

♣ CuO ♦ ZnO ● ZrO_2
(002)
(111)
(100)
(002)
c
b
a
$CZZ@30SiO_2$-R
$CZZ@30SiO_2$
CZZ
Intensity (a.u.)
10 20 30 40 50 60 70 80 90
2 Theta (°)

FIG. 3

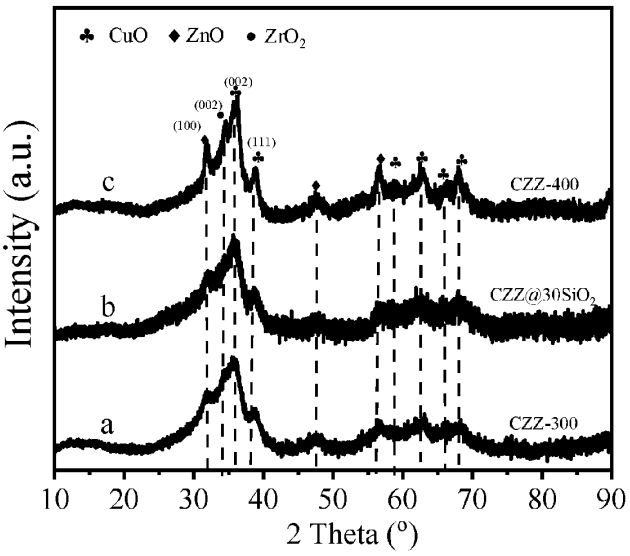

♣ CuO ♦ ZnO ● ZrO_2
(002)
(002)
(100)
(111)
c
b
a
CZZ-400
$CZZ@30SiO_2$
CZZ-300
Intensity (a.u.)
10 20 30 40 50 60 70 80 90
2 Theta (°)

FIG. 4

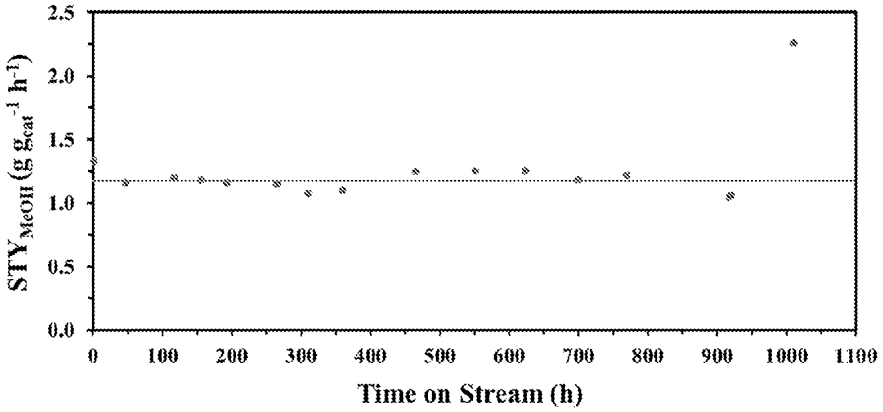

2.5
2.0
1.5
1.0
0.5
0.0
STY$_{MeOH}$ (g g$_{cat}^{-1}$ h^{-1})
0
100
200
300
400
500
600
700
800
900
1000
1100
Time on Stream (h)

FIG. 5