Combined Magnesia, Ceria and Nickel catalyst supported over γ-Alumina Doped with Titania for Dry Reforming of Methane

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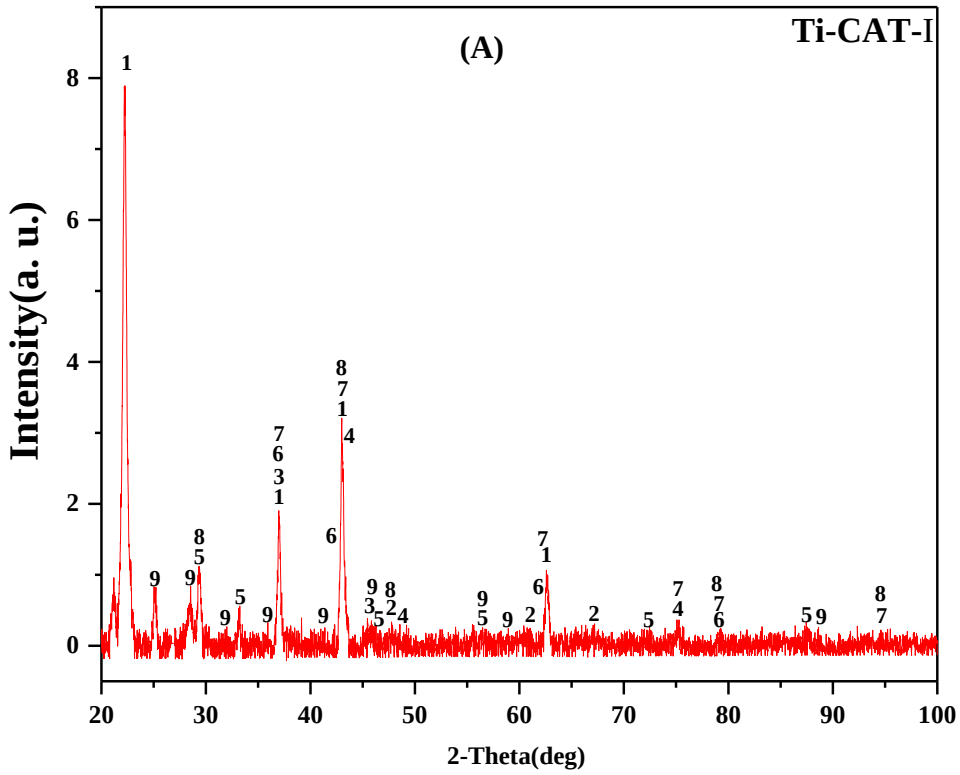
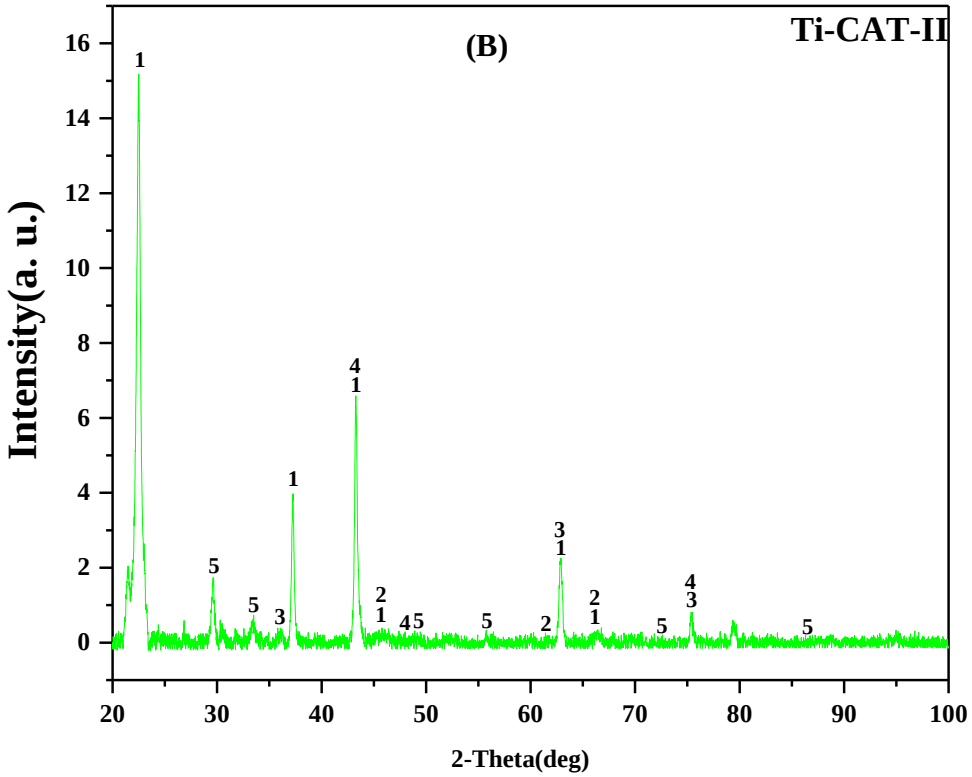
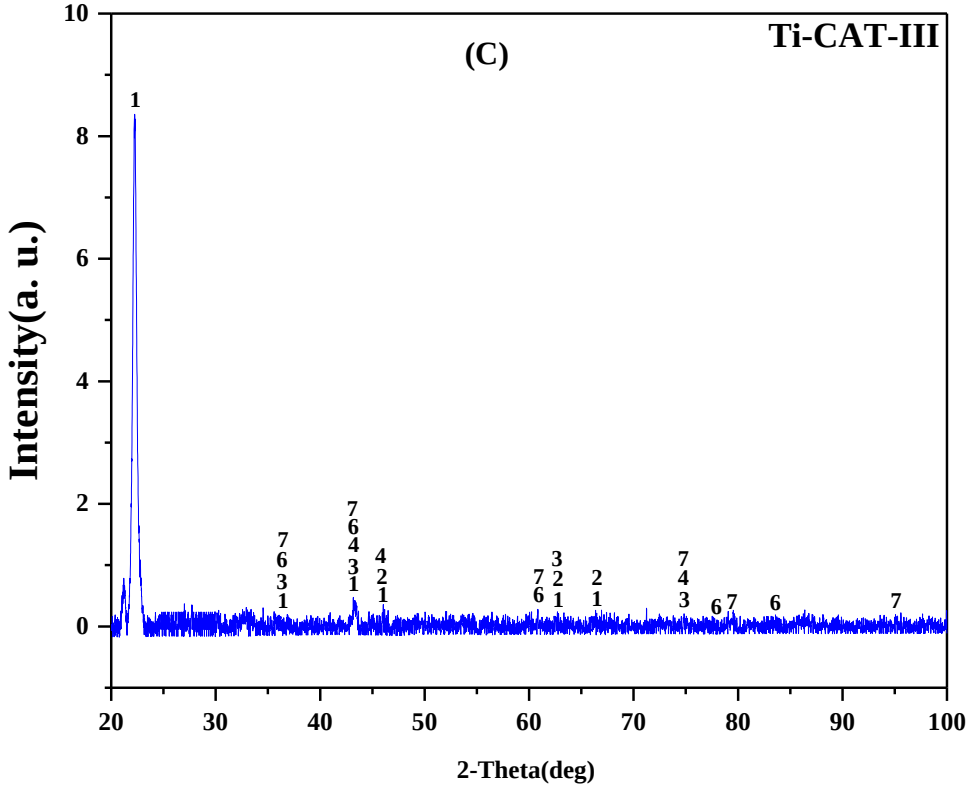
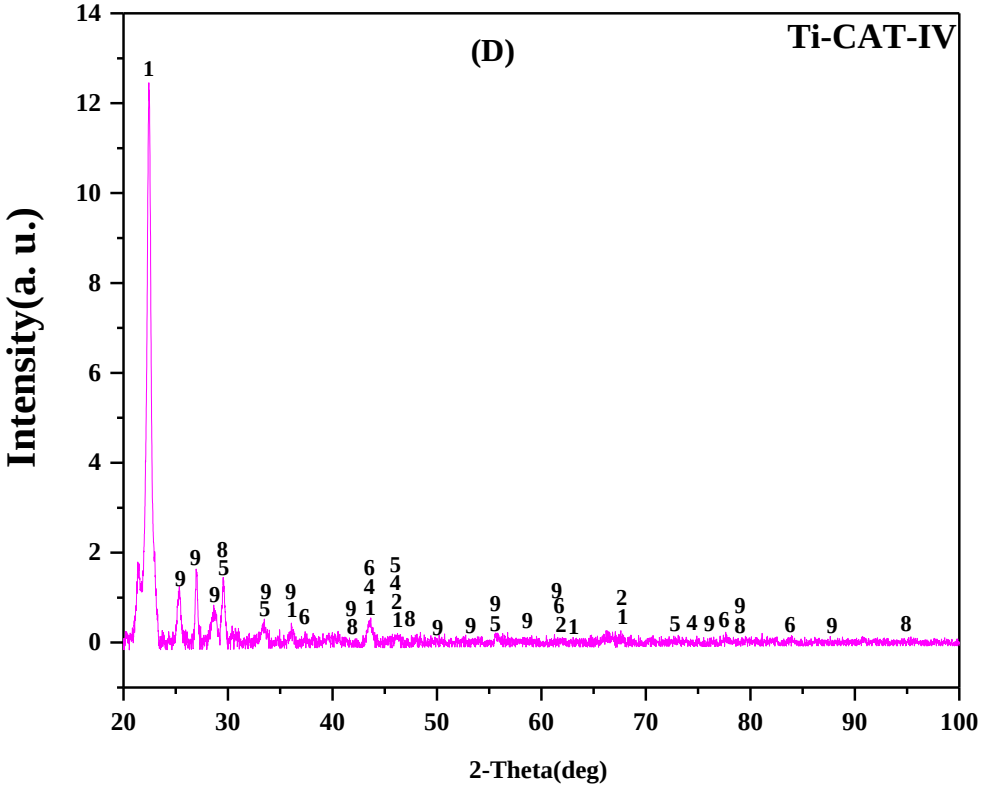
Electronic Supplementary Information

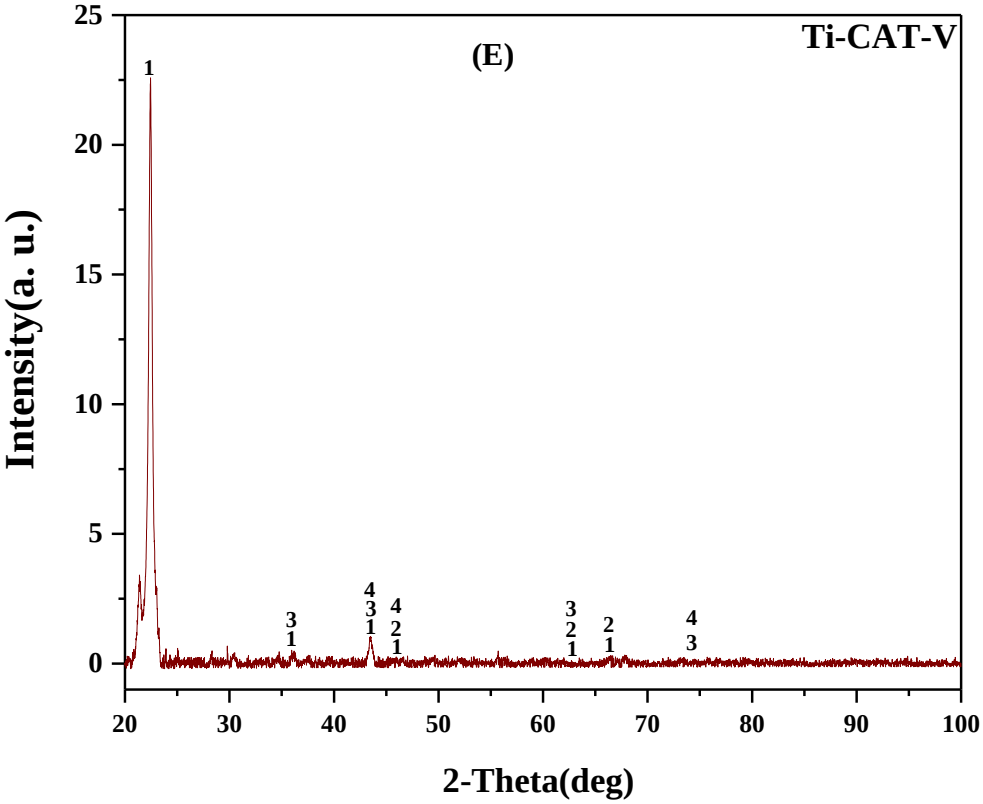
X-ray Powder Diffraction (XRD) Patterns of the synthesized catalysts




(B)
Ti-CAT-II
Intensity(a. u.)
2-Theta(deg)


(C)
Ti-CAT-III
Intensity(a. u.)
2-Theta(deg)


(D)
Ti-CAT-IV
Intensity(a. u.)
2-Theta(deg)


(E)
Ti-CAT-V
Intensity(a. u.)
2-Theta(deg)

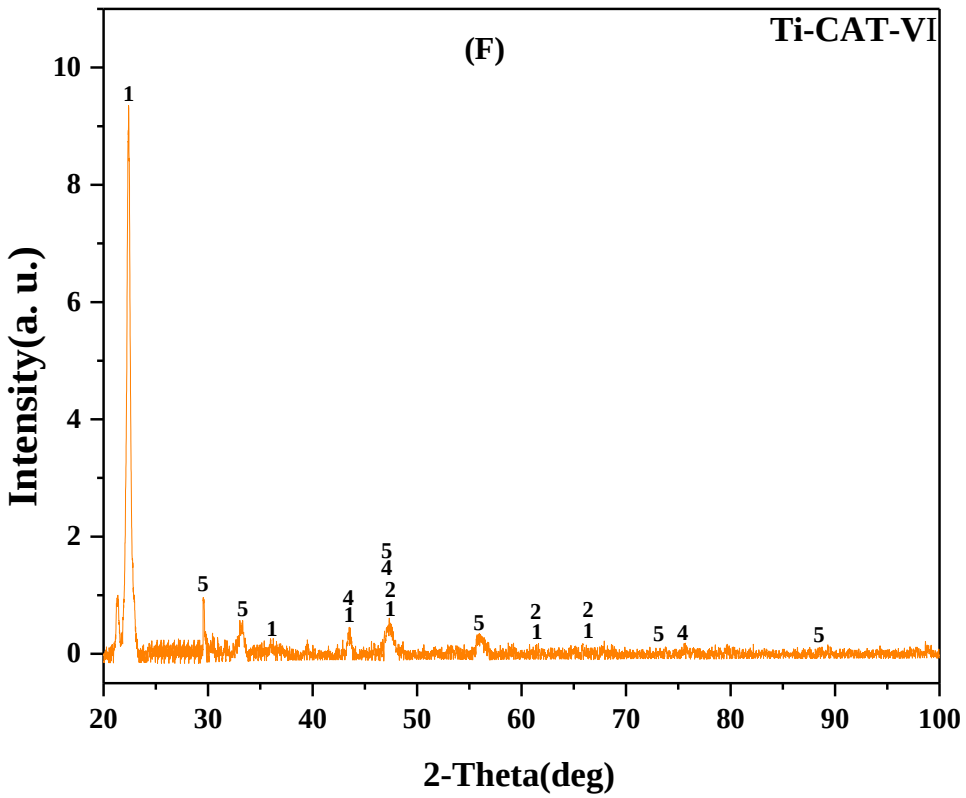


Figure 1. XRD patterns of fresh catalysts: (A) Ti-CAT-I, (B) Ti-CAT-II, (C) Ti-CAT-III, (D) Ti-CAT-IV, (E) Ti-CAT-V, and (F) Ti-CAT-VI (1: $Al_{0.5}Si_{0.75}O_{2.25}$; 2: γ-$Al_2O_3$; 3: NiO; 4: TiO_2; 5: CeO_2; 6: MgO; 7: $MgNiO_2$; 8: $MgCeO_3$; 9: Mg_2CeTiO_6).