

Fig. 4-24 50T在經過 $1500^{\circ}\text{C}/6\text{hr}/\text{Ar}$ 熱處理後之(a)m-ZrO₂、t-ZrO₂與 α -Ti共存之明視野影像(BFI);(b)m-ZrO₂之EDS分析光譜;(c)m-ZrO₂之SADP, Z. A. = $[011]_{m\text{-ZrO}_2} // [001]_{t\text{-ZrO}_2}$; twin plane = (011) ;(d)m-ZrO₂之SADP, Z. A. = $[011]$ 。

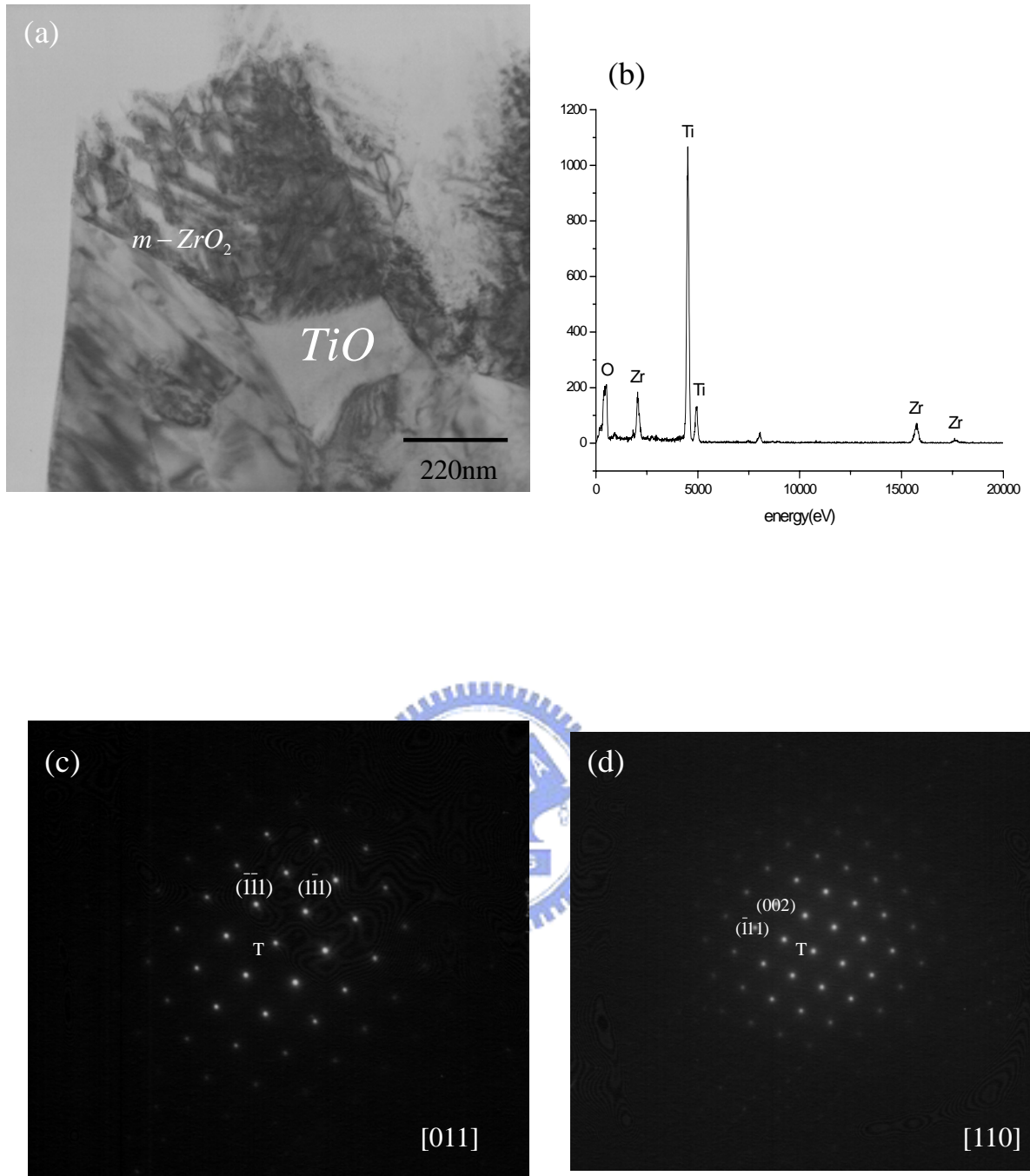


Fig. 4-25 50T在經過 $1400^\circ\text{C}/6\text{hr}/\text{Ar}$ 熱處理後之(a) TiO 與 $m\text{-ZrO}_2$ 明視野影像(BFI);(b) TiO 之EDS分析光譜;(c) TiO 之SADP, Z. A. = $[011]$; (d) TiO 之SADP, Z. A. = $[110]$ 。

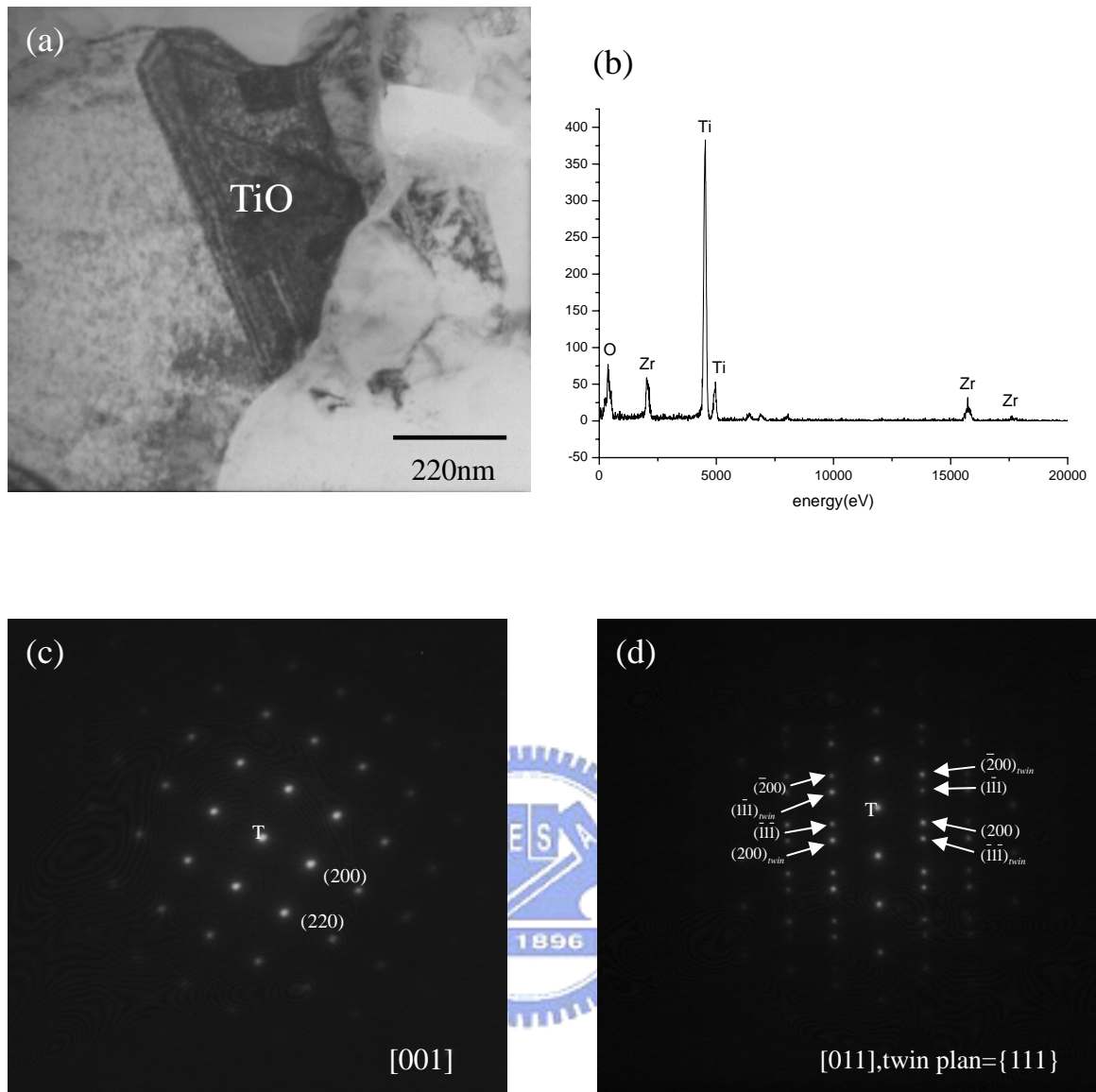


Fig. 4-26 50T 在經過 1300°C/6hr/Ar 熱處理後(a)TiO₂ 之明視野影像 (BFI);(b)TiO₂ 之 EDS 分析光譜;(c)TiO₂ 之 SADP, Z. A. =[001];(d) TiO₂ 之 SADP, Z. A. =[011], twin plane={111}。

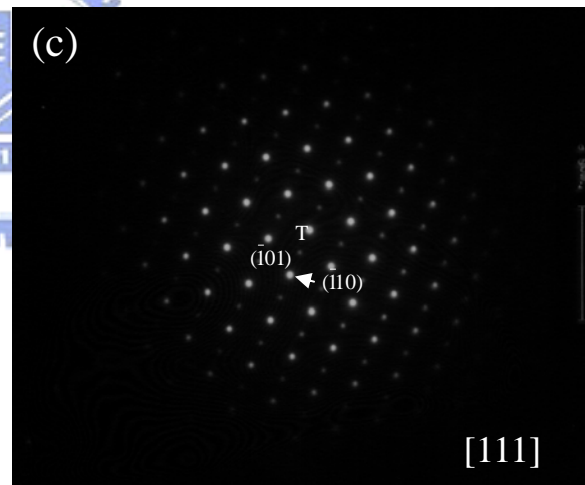
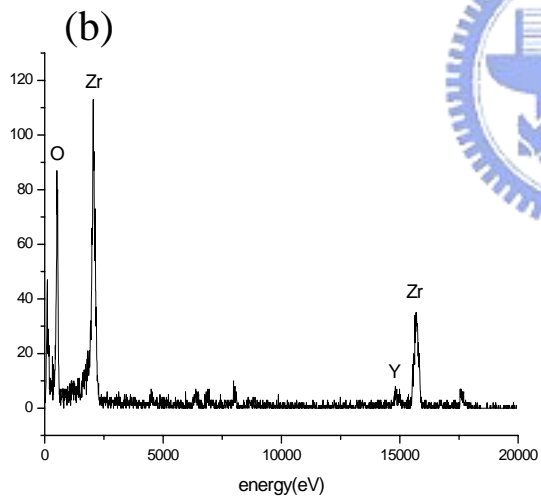
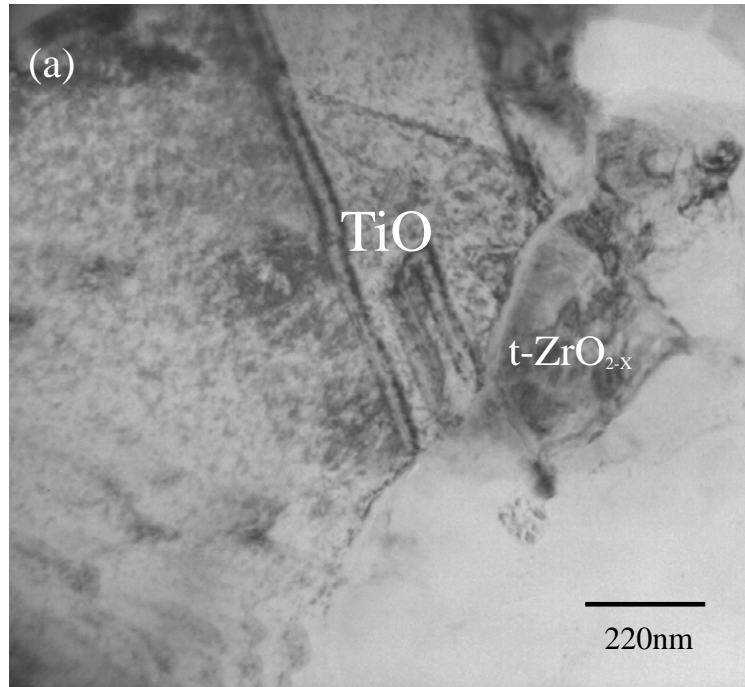


Fig. 4-27 50T在經過 1300°C /6hr/Ar熱處理後(a)TiO與t-ZrO_{2-x}之明視野影像 (BFI);(b) t-ZrO_{2-x}之EDS分析光譜;(c)t-ZrO_{2-x}之SADP, Z. A. =[111]。

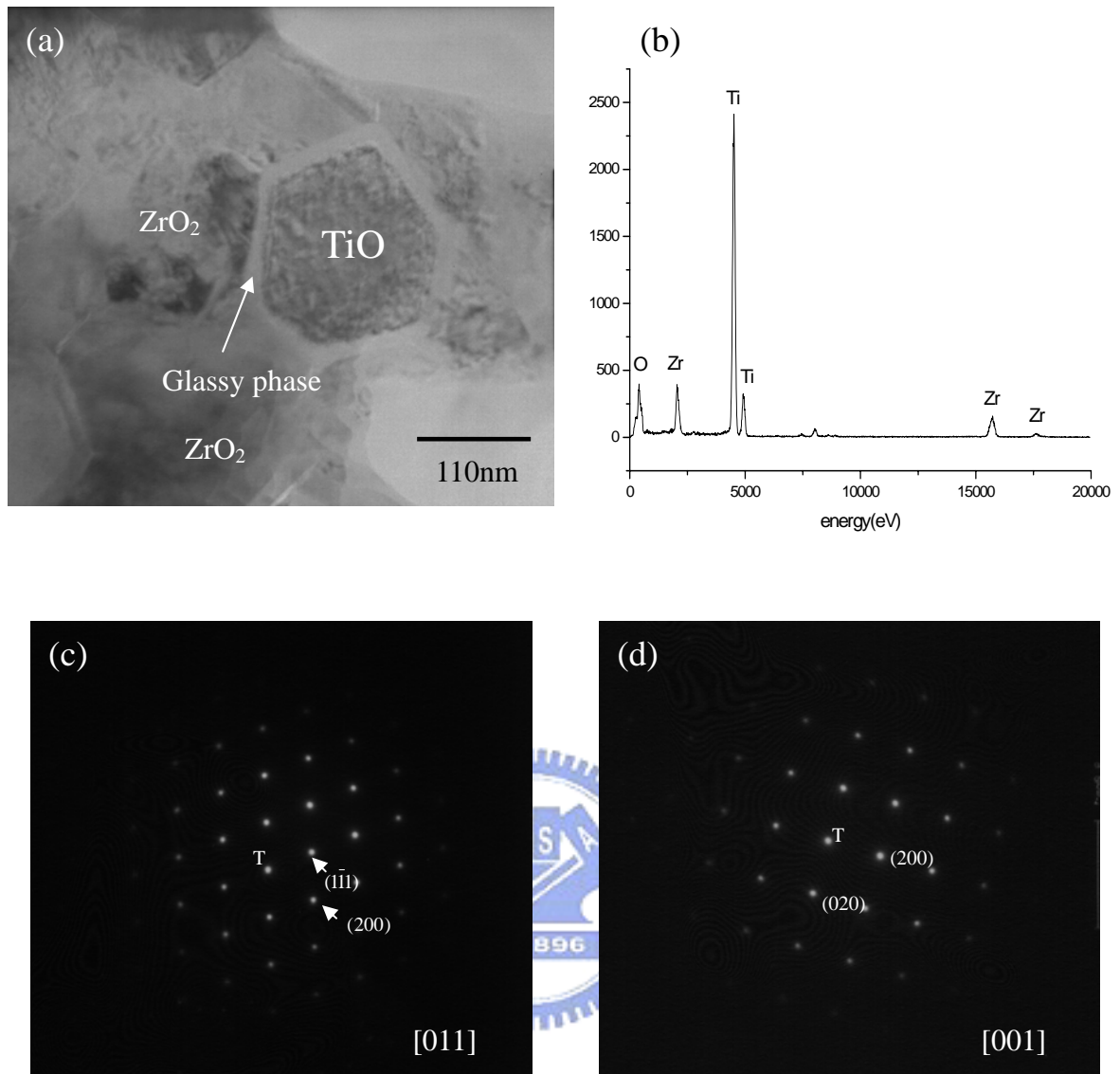


Fig. 4-28 50T 在經過 1300°C/6hr/Ar 熱處理後(a)TiO 與其周圍之玻璃相之明視野影像(BFI);(b)TiO 之 EDS 分析光譜;(c)TiO 之 SADP, Z. A. =[011];(d)TiO 之 SADP, Z. A. =[001]。

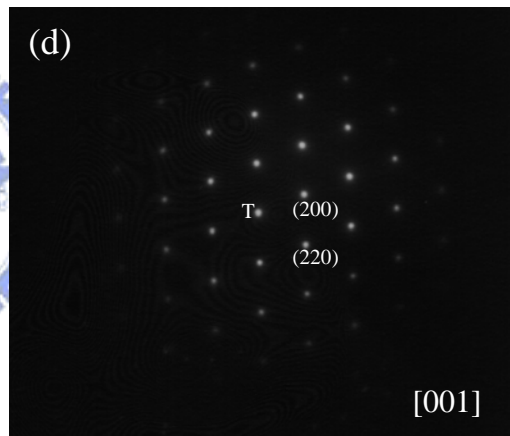
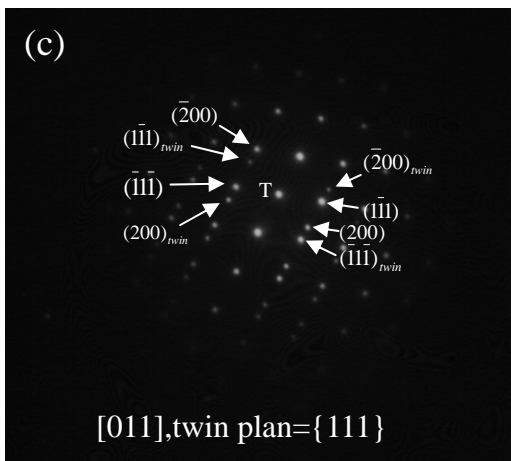
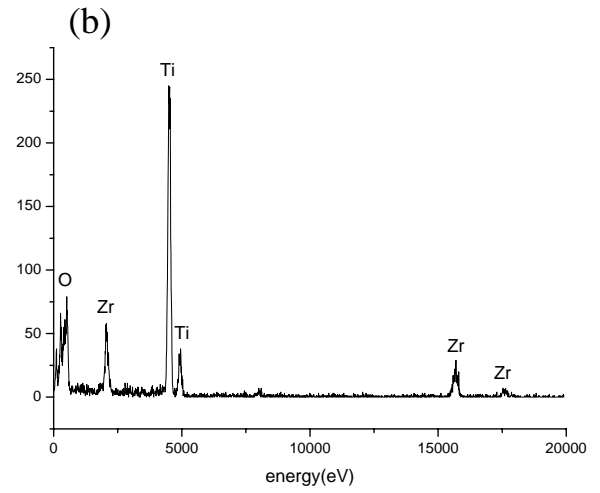
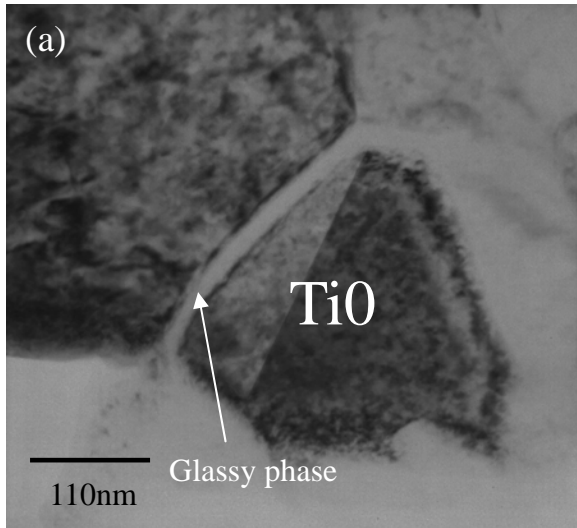


Fig. 4-29 50T 在經過 1300°C/6hr/Ar 熱處理後(a)TiO₂ 雙晶與其周圍玻璃相之明視野影像(BFI);(b)TiO₂ 之 EDS 分析光譜;(c)TiO₂ 之 SADP, Z. A. =[011], twin plane={111};(d) TiO₂ 之 SADP, Z. A. =[001]。

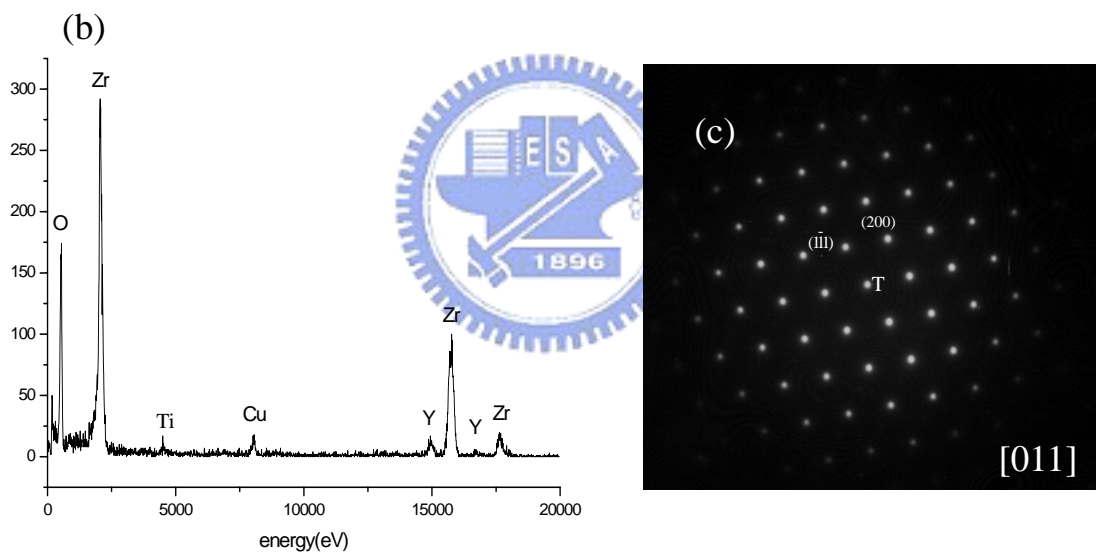
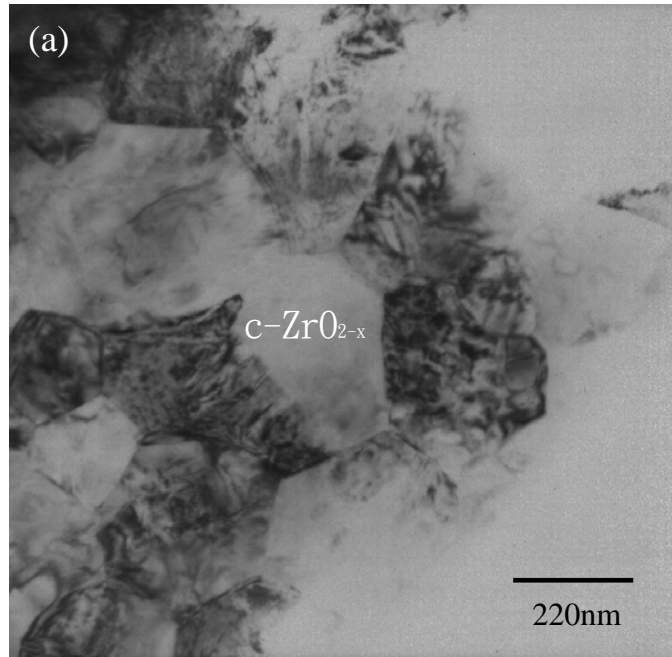


Fig. 4-30 5T在經過 1500°C/6hr/Ar熱處理後(a)c-ZrO₂之明視野影像 (BFI);(b) c-ZrO₂之EDS分析光譜;(c) c-ZrO_{2-x}之SADP, Z. A. =[011]。