

Fig. 1 In-plane X-ray diffraction pattern obtained from ZnO films deposited by the RT ALD at 300 cycles.

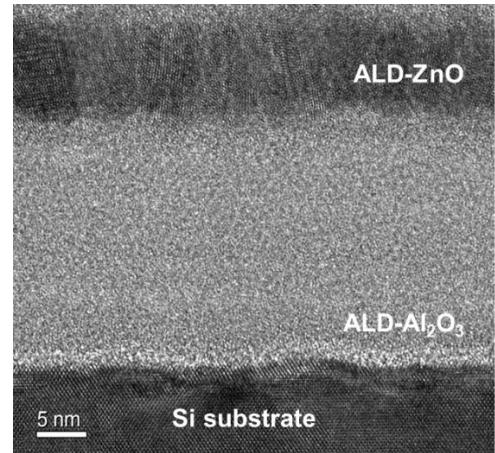


Fig. 2 HRTEM image of ZnO on Al₂O₃ with Si substrate. Crystallized ZnO grains are visible.

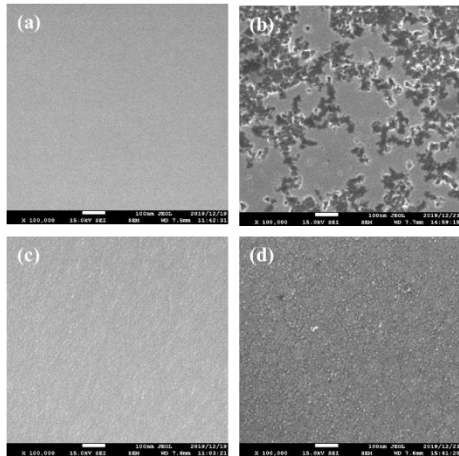


Fig. 3 Surface SEM images of RT-ALD deposited films before and after immersed in hot water with a temperature of 90 °C for 5 min. (a) RT deposited Al₂O₃ (b) RT deposited Al₂O₃ after immersion. (c) RT deposited ZnO on Al₂O₃. (d) RT deposited ZnO on Al₂O₃ after immersion.