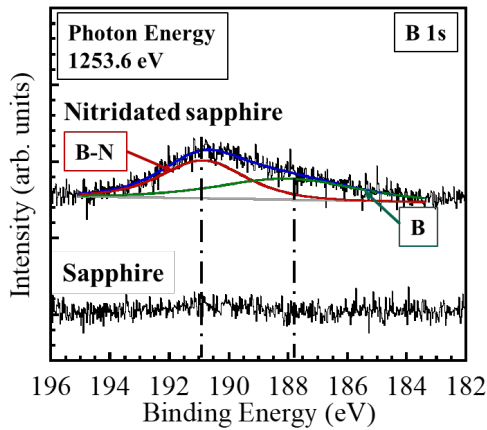
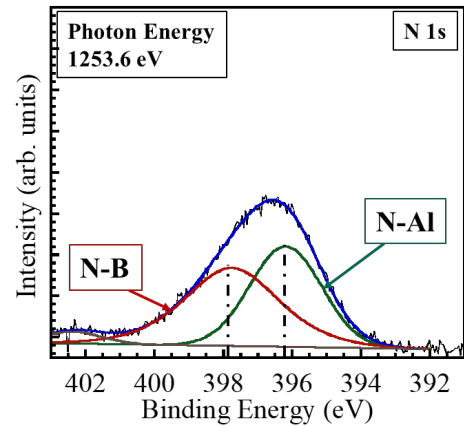


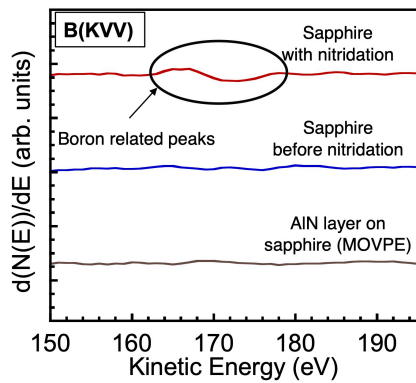
## Supplementary Pages (Optional)



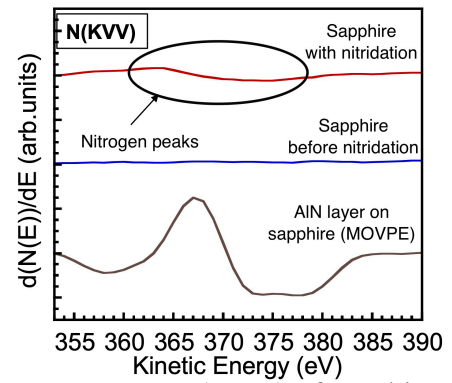
**Fig. 1.** XPS spectra (B1s) of sapphire w/o nitridation.



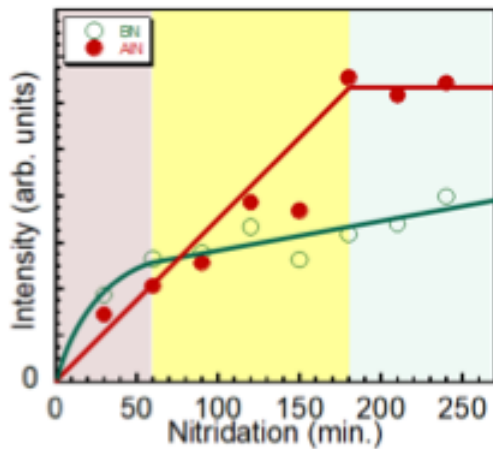
**Fig. 2.** XPS spectra (N1s) of sapphire with nitridation.



**Fig. 3.** AES spectra (B(KVV)) of sapphire w/o nitridation. Those of AlN/sapphire grown by MOVPE is also shown.



**Fig. 4.** AES spectra (NVV) of sapphire w/o nitridation. Those of AlN/sapphire grown by MOVPE is also shown.



**Fig. 5.** Intensities of AlN and BN as a function of nitridation time.