

Figure 1 XRD results of as-deposited TiBC thin films with different C/Ti ratio.

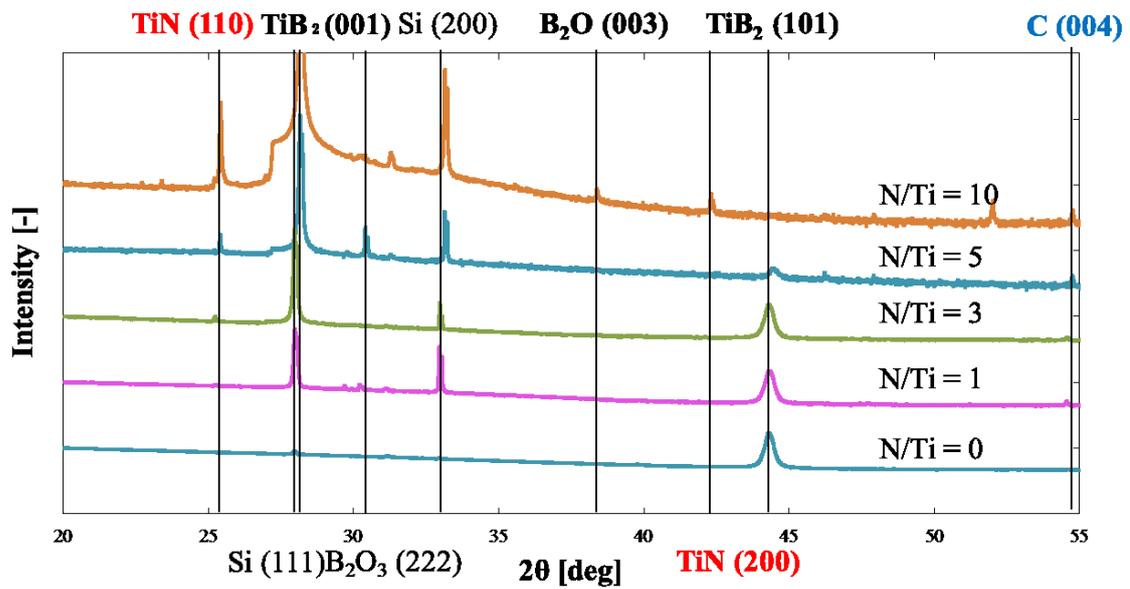


Figure 2 XRD results of as-deposited TiBN thin films with different N/Ti ratio.