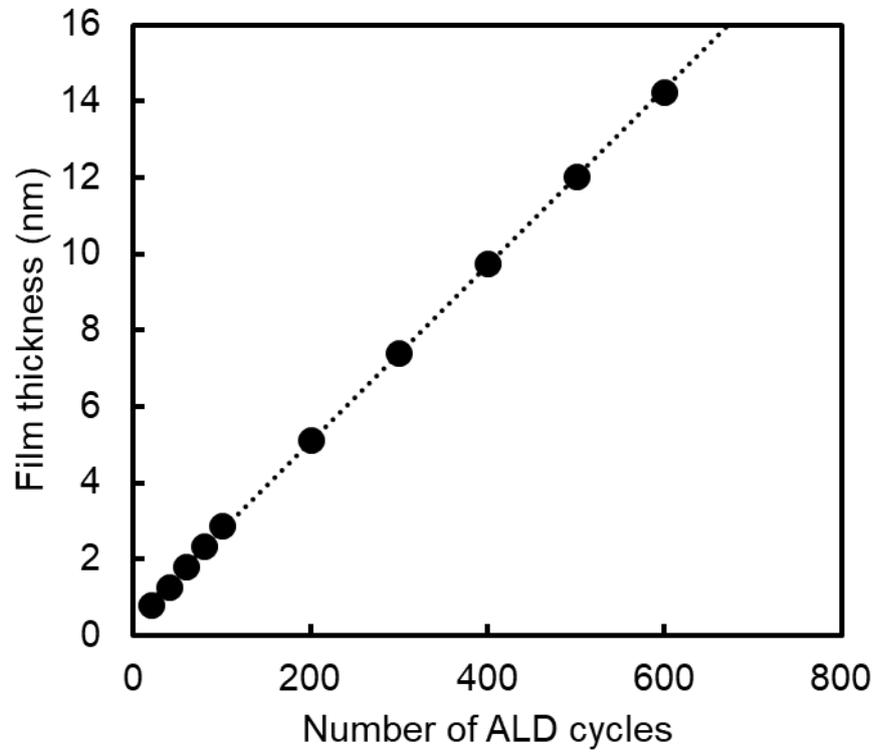
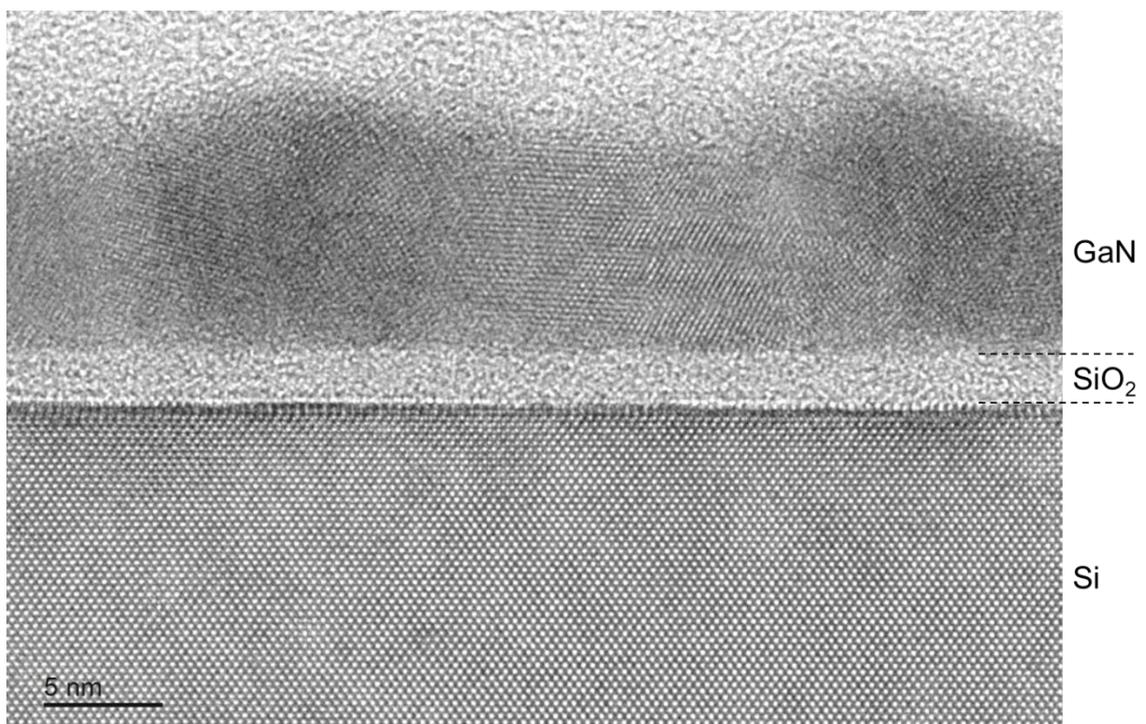


Low-temperature plasma-enhanced atomic layer deposition of crystalline GaN thin films using monovalent organogallium precursor

F. Mizutani, N. Takahashi



GaN film thickness as a function of the number of ALD cycles. The ALD process consisted of a GaCp* pulse time of 0.5 s, H₂ plasma pulse time of 20 s, and N₂ plasma pulse time of 20 s.



Cross-sectional TEM image for the GaN film grown with the substrate temperature: 200 °C, number of ALD cycles: 600, GaCp* pulse time: 0.5 s, H₂ plasma pulse time: 20 s, and N₂ plasma pulse time: 20 s.