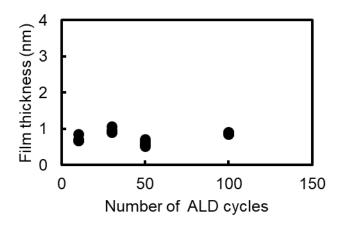
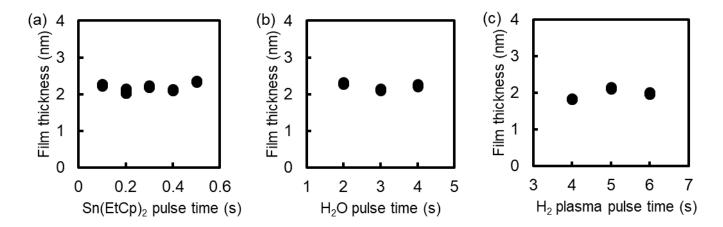
Atomic Layer Deposition of SnO Film Using Liquid Sn(EtCp)<sub>2</sub> Precursor and Combinations of H<sub>2</sub>O and H<sub>2</sub> Plasma

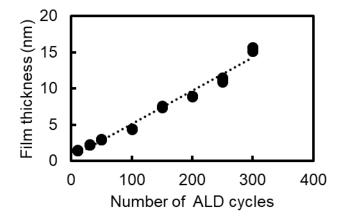
## F. Mizutani, N. Takahashi, and T. Nabatame



SnO film thickness as a function of number of ALD cycles. The ALD process consisted of a  $Sn(EtCp)_2$  pulse time of 0.2 s and an  $H_2O$  pulse time of 3 s.



SnO film thickness as a function of (a)  $Sn(EtCp)_2$  pulse time, (b)  $H_2O$  pulse time, and (c)  $H_2$  plasma pulse time for films deposited for 30 cycles. The  $Sn(EtCp)_2$  pulse time,  $H_2O$  pulse time, and  $H_2$  plasma pulse time, except those that were varied, were 0.2, 3, and 5 s, respectively.



SnO film thickness as a function of number of ALD cycles. The ALD process consisted of a  $Sn(EtCp)_2$  pulse time of 0.2 s, a  $H_2O$  pulse time of 3 s, and a  $H_2$  plasma pulse time of 5 s.