

(Supplemental)

Trench coverage properties of oxide films deposited at low temperature by pure ozone ALD

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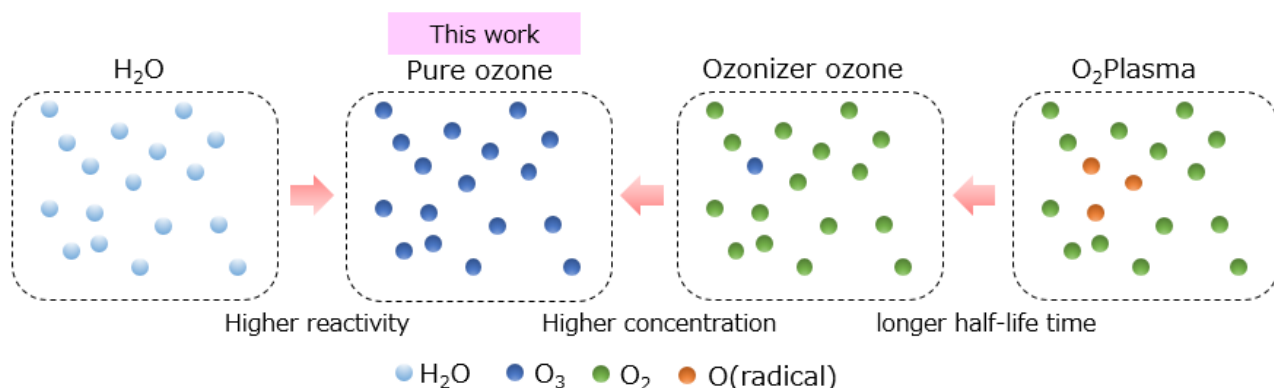


Fig. 1 Schematic images of molecules in gas phase with various oxidation gas. Pure ozone has a high concentration and has a long half-life like water and is a highly reactive.

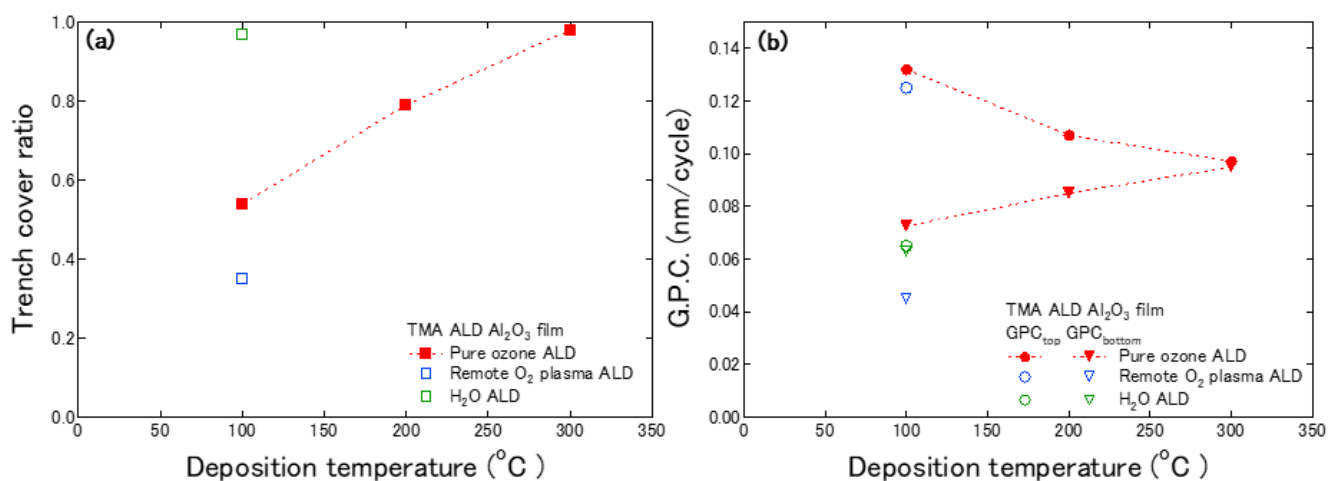


Fig. 2 Deposition temperature dependence of (a) trench cover ratio and (b) GPC at trench top (GPC_{top}), and bottom (GPC_{bottom}). Trench cover ratio is defined by GPC_{bottom}/GPC_{top}. Trench aspect ratio is about 55 (Trench width and depth are 2.4 and 134 μm , respectively).