

### Supporting Information

#### Insulating Oxide Film Formation with Acid Catalyzed Hydrolysis of Alkoxide Precursors in Supercritical Fluid Carbon Dioxide

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Figure S-1. The spectra of X-ray photoelectron spectroscopy (XPS) of SiO<sub>2</sub> film were acquired. The binding energies of Si 2s and 2p peaks of SiO<sub>2</sub> coatings are 154.4 eV and 103.3 eV, respectively. The binding energy of O 1s peak on SiO<sub>2</sub> film is 532.4 eV.



