

Combining Reactive Sputtering and Rapid Thermal Processing for Synthesis and Discovery of Metal Oxynitrides

Lan Zhou*, Santosh K. Suram*, Natalie Becerra-Stasiewicz, Slobodan Mitrovic, Kevin Kan, Ryan J.R. Jones and John M. Gregoire^{a)}

Joint Center for Artificial Photosynthesis, California Institute of Technology, Pasadena, California 91125

* Equal contribution authors

^{a)} Corresponding author: Electronic mail: gregoire@caltech.edu

Supplementary Document

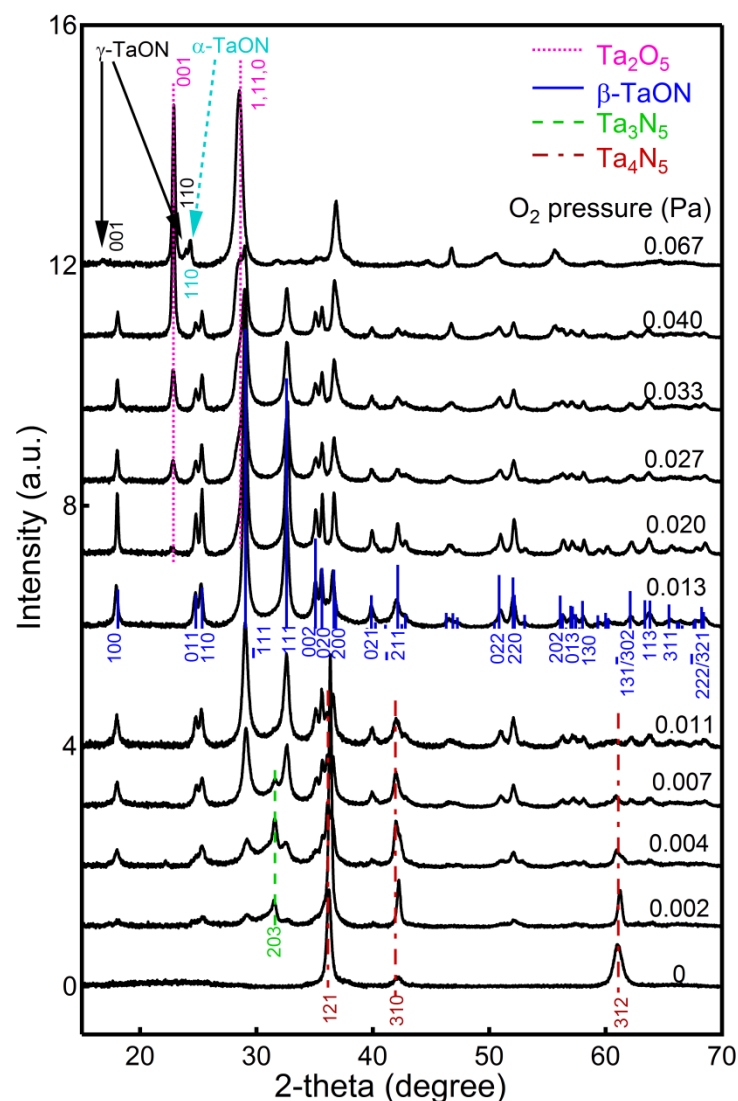


FIG. S1. X-ray diffraction patterns from TaO_xN_y thin films deposited at various O₂ partial pressures and fixed N₂ pp of 0.2 Pa, then annealed with RTP at approximately 1173 K for 30 seconds in N₂ flow.

