

What is the conductive phase in TAO X thin film?

Later, the conductive phase was identified as amorphous Ta-rich Ta(O) surrounded by nano-crystalline Ta₂O₅ phase [14,15]. However, direct observation on the Ta-rich phase as the electrical conduction path in the TaO x thin film is not yet presented.

How is TAO X thin film deposited on Pt/Ti/SiO₂/Si substrates?

A TaO x thin film of approximately 30 nm thick was deposited on Pt/Ti/SiO₂/Si substrates by reactive rf-sputtering technique at room temperature. During the TaO x thin film deposition, the rf-sputtering power and the deposition pressure were maintained at 100 W and 2 mTorr, respectively.

How to measure electrical properties of TAO X thin film?

A top electrode of 30 nm thick Ta layer was deposited on the TaO x film by dc-sputtering method at room temperature and patterned through photolithography and lift-off process, in order to measure the electrical properties of the TaO x thin film.

Does TAO X thin film have Rs?

In this work, the highly promising RS performance of the TaO x thin film is demonstrated and microscopic analyses by high-resolution transmission electron microscope (HR-TEM) provide direct observation on the origin of the RS in the TaO x thin film. Figure 1 (a) shows I-V hysteresis characteristic of a Ta/TaO x /Pt capacitor-like device.

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The TaO x thin film has the electrical property of an insulator in the pristine state as shown in Fig. 1 (a) due to the homogeneously dispersed oxygen atoms.

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