

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.

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.

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 a high endurance characteristic?

Yang, et al. reported the highly promising endurance characteristic over ~10¹⁰ RS cycles of the TaO_x thin film, which is attributed to simple thermodynamic equilibrium phases of Ta-O system in the range of conventional RS operation condition [7].

What reveals the origin of electric conduction paths in TaO_x thin film?

The observed Ta metal clusters unveiled the origin of the electric conduction paths in the TaO_x thin film at the LRS.

How reliable is a TAO X memristor?

The TaO_x memristor had MVC states where oxygen vacancies migrated to create a Ta-rich local regions to be responsible for the stable switching behavior. The MVC cycling reliability was greater than 50 000 times, with a two-state endurance of at least 10¹² cycles.

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Multiple protected Dirac crossings are predicted in close proximity to the Fermi level (E_F), and signatures of normal state correlation effects are also suggested by a high ...

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A study of the growth morphology and electronic structure of TaO x films on the Ag(100) substrate has been performed to determine the properties of ultra-thin TaO x films ...

and Dynamic Pricing in Smart Grid Tao Jiang, Senior Member, IEEE, Yang Cao, ... ERG) under Grant 20130142140002, and the Major State Basic Research De-velopmentProgramofChina(973Program ...

SSGC, as the first national smart grid research center, was approved by National Energy Administration in November 2009. It is jointly invested by The National Energy Administration, the Ministry of Education, the Shanghai Government and State Grid Corporation of China, and Shanghai Jiao Tong University.

Knowledge Sharing: State Grid's effective response to Covid-19 pandemic. 26 August 2020, by Junbo PI, Chaofan HU, Mingjie LI - State Grid Corporation of China (SGCC) The year 2020 is unusual in which the covid-19 is still spreading around the world. The epidemic has curbed the economic and social development, and infected tens of millions of ...

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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 ...



State Grid Microfilm Tao

In this article, the TaO x /Ta stacked sensing films as sensing membranes were deposited onto n +-type Si substrate by a radio-frequency (RF) magnetron sputtering ...

State Grid General Information Description. Developer of power grids designed to generate electric energy. The company structures the electric power system in order to create competition and separate generation and transmission functions, providing clients with power supply for their operational purposes.

I have (co)authored more than 100 publications and PI for 10+ R& D projects, including Portugal NESTER Joint Project, National Natural Science Foundation of China (NSFC), Natural Science Foundation of Jiangsu Province, and Science and Technology Project of the State Grid Corporation of China (SGCC).

State Grid Smart Grid Research Institute Co., Ltd.(SGRI) key point: 1)Direct scientific research institutions of State Grid Corporation 2)UHV, Smart Grid, Clean Energy 3)China"s first high-end ...

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Pei TAO | Cited by 683 | of State Key Laboratory of Resources and Environmental Information System, Beijing | Read 20 publications | Contact Pei TAO

Meng Tao"s 132 research works with 2,332 citations and 5,393 reads, including: Recovery of metallic lead from End-Of-Life silicon solar modules using salt bridge electrowinning

State Imaging & Microfilm Lab (SIML) New Feature! Digital Exhibit: The History of Microfilm; The State Imaging and Microfilm Laboratory (SIML) is located in room N055 of the Indiana Government Center North building and is charged with providing cost-effective imaging and microfilming services to State government pursuant to standards adopted by the State of Indiana.

Ping Ma"s 7 research works with 4 citations and 67 reads, including: Adaptive Handover Scheme for Multit-mode Device in Power Wireless Heterogeneous Networks

1 Introduction. Over the past few years, the adoption of big data analytics in banking [,], health care [,], internet of things (IoT) [,], communication [,], smart cities [,], and transportation [] sectors have demonstrated huge potential for innovation and business growth.The transition of power grids to "smart grids" around the world can be characterised ...

In this year, State Grid Fujian Electric Power has launched a total of 210 such projects in Xiamen to provide demonstration models for advanced distribution networks in urban areas.

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microgrid has the characteristics of low investment, low operation ...

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