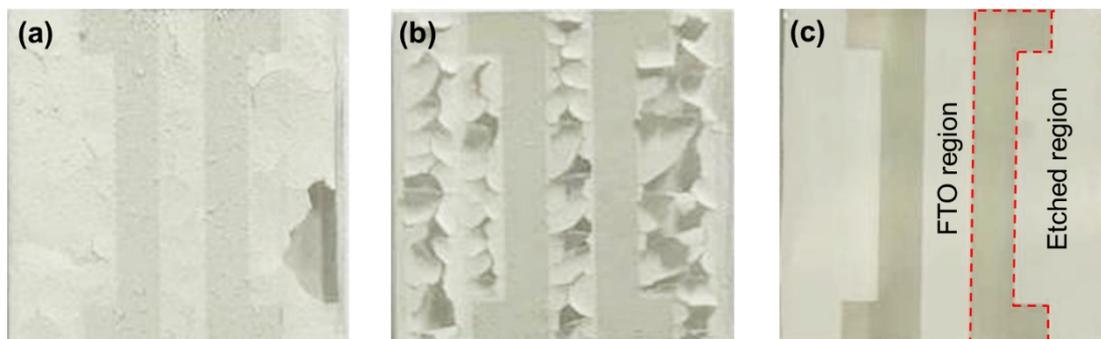
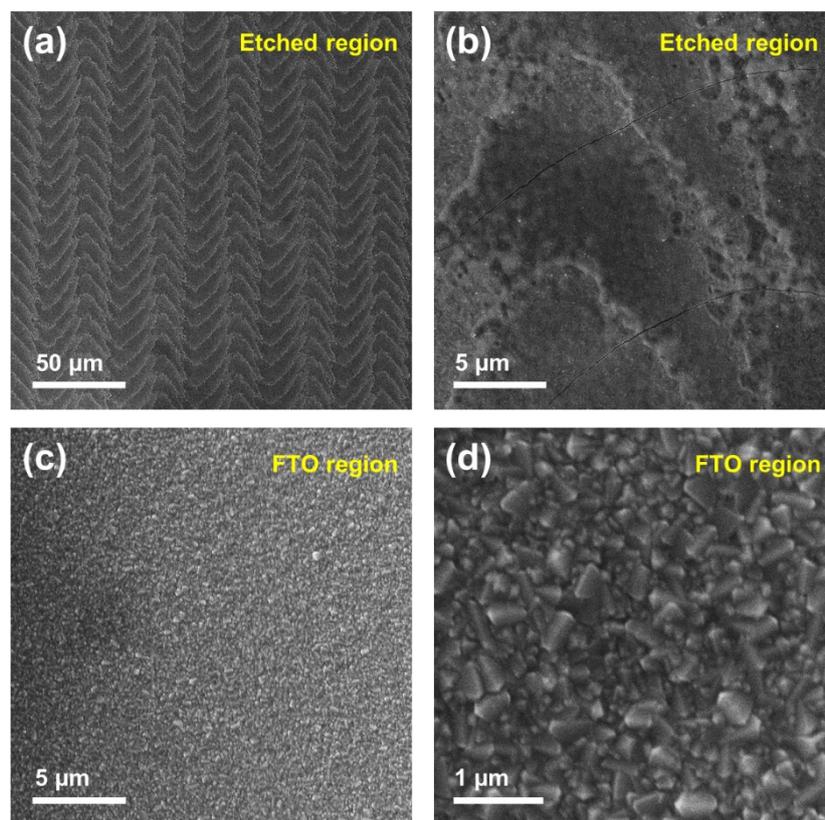


## Supporting Information

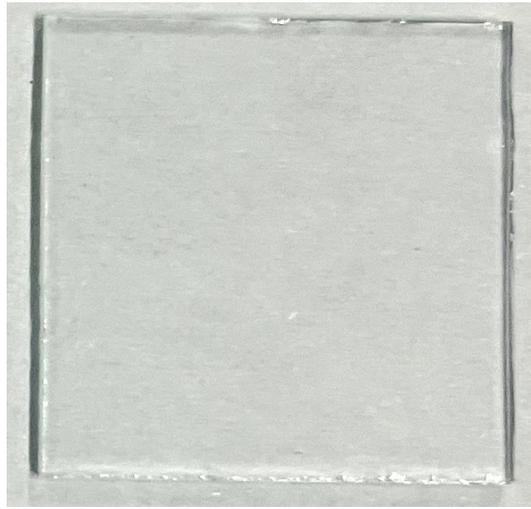
### Controllable hydrothermal growth of uniform rutile TiO<sub>2</sub> nanorod arrays for memristive applications



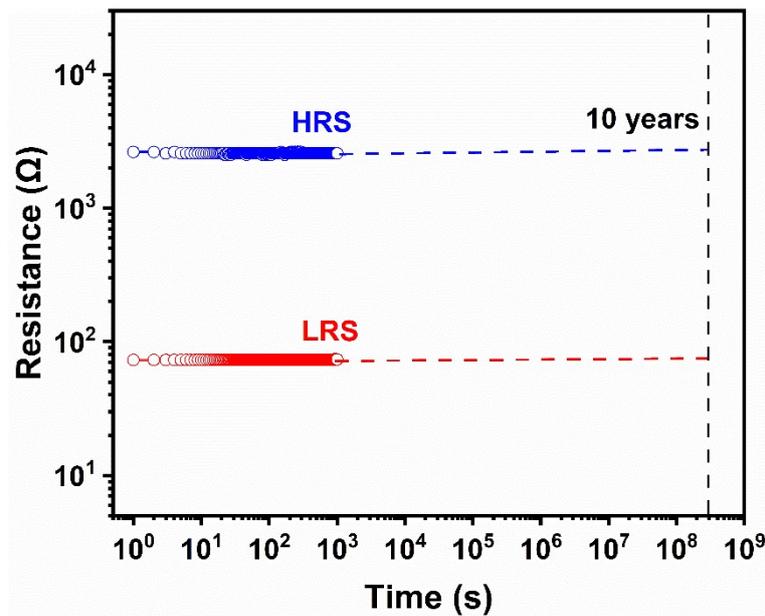
**Fig. A1** (Color online) Photographs of the deposited thin films when FTO substrates are placed with (a) flat, (b) tilt, and (c) verticality, respectively



**Fig. A2** (Color online) SEM images of the FTO substrate. (a) Etched region and (b) its corresponding enlarged view. (c) FTO region and (d) its corresponding enlarged view



**Fig. A3** (Color online) Photograph of the deposited thin film when the common glass substrate is placed with verticality



**Fig. A4** (Color online) Retention characteristics fitting graph of the 25-min UV-treated device, using an eye-guided line-based trend extrapolation method provided in on previous reports (Nature Reviews Materials, 2024, 9, 358; Nature Communications, 2022, 13, 3037). The retention time is predicted to exceed 10 years.