

Formation and Rupture of Nanofilaments in Metal/TaO_x/Metal Resistive Switches

Mohini Verma

Thesis submitted to the faculty of the Virginia Polytechnic Institute and State University in
partial fulfillment of the requirements for the degree of

Master of Science
In
Electrical Engineering

Marius K. Orlowski
Kathleen Meehan
Mantu K. Hudait

September 4, 2012
Blacksburg, VA

Keywords: resistive switch, non-volatile memory, volatile switching, memristor

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Actually I am Mohini Verma and one of the authors of the paper "Volatile resistive switching in

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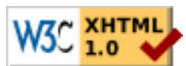
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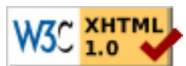
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Source: Figure 2, Tong Liu, Mohini Verma, Yuhong Kang and Marius K. Orlowski, "Coexistence of Bipolar and Unipolar Switching of Cu and Oxygen Vacancy Nanofilaments in Cu/TaOx/Pt Resistive Devices," ECS Solid State Lett. 2012, vol.1, issue 1, pp q11-q13.

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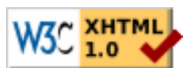
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