READ ME file For “Dataset for : Frequency Response of Metal-Oxide Memristors”

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Read Me Author: Vasileios Manouras , University of Southampton

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AUTHORS: Vasileios Manouras¹, Spyros Stathopoulos¹, Suresh Kumar Garlapati¹ , Alex Serb¹and Themis Prodromakis¹

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Corr. author Vasileios Manouras ([v.manouras@soton.ac.uk](mailto:v.manouras@soton.ac.uk))

Institution 1:  
  
University of Southampton  
Department Zepler Institute for Photonics and Nanoelectronics  
Group Centre for Electronics Frontiers  
Address Highfield Campus, Southampton, SO17 1BJ, UK

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Instructions on reading the provided data

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The data for each figure is contained within its respective excel file.

Figure 1

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Data contained inside file 6D9-D36-I9-40um fig1. Sheet ZETA contains data for Fig 1c and Sheet Theta contains data for fig 1d. Data of both is plotted as Y axis while the X axis is a log axis from 103 to 107.

Figure 2 and 3

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Data contained inside file 6D9-D36-J23-20um fig2-3. Sheet ZETA contains data for figure 2 and sheet THETA contains data for figure 3. Each columns represents a separate plot line with header as appearing inside the file. All columns represent data in Y axis. X axis is log scale 103 to 107.

Figure 4

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Data for each subfigure is contained inside the respective file.

All files are plotted as a scatter plot, where the X axis are the columns titled “Cut-off +size denomination” while the Y axis given by columns titled “Initial resistance + Size denomination”

Figure 5

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Data for figure 5 is contained inside the file fig 5.

The X axis are the columns titled “Cut-off +size denomination” while the Y axis given by columns titled “Initial resistance + Size denomination”. Each size denomination represents a separate plot line in the same graph.

Figure 6

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Data for figure 6 is contained inside the file 6W30-D144-G7-40um fig 6.

Only data from sheet ZETA is used. Each columns represents a separate plot line inside the same graph, with the headers representing switching voltage (1.5, -1.5, 2…..etc). Columns are plotted as the Y axis against a log scale on the X axis with values from 103 to 107.

Figure 7

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Data for figure 7 is contained inside the file fig 7.

This is a scatter plot, with the X axis for each plot line represented by the headers with title “freq +attribute denomination” and the Y axis consists of columns with headers titled “Cut-off + attribute denomination”

Attributes of lines are: TiO2/Al2O3, TiO2 25nm , SnOx, TiO2 15nm.

Figure 8

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Data for figure 8 is contained inside the file fig 8.

This is a scatter plot, with the X axis for each plot line represented by the headers with title “freq +attribute denomination” and the Y axis consists of columns with headers titled “Cut-off + attribute denomination”

Attributes of lines are : TiO2 15nm Thick, TiO2 25nm Thick.