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Performance of Resistive Switching Devices Based on Nanocomposites

Guest Editor:

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Message from the Guest Editor

In the recent years, the performances of Resistive Switching Devices (RSDs), have strongly attracted the attention of researchers. Of particular interest are the RSDs based on nanocomposites. The research in the field of this kind of devices is especially focused on the development of non-volatile memory devices, with the aim to obtain reliable, low cost, devices.

In particular, RSDs based on polymer nanocomposite have been deeply investigated, and good performances in terms of retention time and endurance have been reported. Furthermore, the study of the resistance switching mechanism (e.g. charge trapping, field induced tunneling or metallic filament formation) is of crucial importance in order to better understand and improve the performances of RSDs.

In this Special Issue, modern trends of the research on RSDs are discussed and highlighted, including the processing fundamentals and the characterization of the devices.

It is my pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications and reviews are all welcome.









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Message from the Editor-in-Chief

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