



## Aggregated Publications List

1. Dalibor Bielek, Sandro Carrara, Elisabetta Chicca, Fernando Corinto, Julius Georgiou, Bernabé Linares-Barranco, Themis Prodromakis, Sabina Spiga, Ronald Tetzlaff, "EU COST Action IC1401–Pushing the Frontiers of Memristive Devices to Systems", Proceedings of the Melecon Conference in Cyprus 2016
2. A. Ascoli, V. Senger, R. Tetzlaff, N. Du, O. G. Schmidt, and H. Schmidt "BiFeO<sub>3</sub> memristor-based secure encryption of medical data", ISCAS, 2016
3. A. Ascoli, S. Slesazeck, H. Mähne, R. Tetzlaff, and T. Mikolajick, "Unfolding Principle gives insight into physics behind threshold switching in a NbO memristor", IEEE proceedings of MEMRISYS, Cyprus, 2015
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6. H. Mostafa, A. Khiat, A. Serb, C. Mayr, G. Indiveri, T. Prodromakis, "Implementation of a spike-based perceptron learning rule using TiO<sub>2</sub>-x memristors", *Frontiers in Neuroscience*, vol. 9, no. 357, 2015
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8. S. Brivio, E. Covi, A. Serb, T. Prodromakis, M. Fanciulli, and S. Spiga, "Gradual set dynamics in HfO<sub>2</sub>-based memristor driven by sub-threshold voltage pulses" *IEEE Proceedings of Memrisys 2015*
9. E. Covi, S. Brivio, A. Serb, T. Prodromakis, M. Fanciulli, and S. Spiga, "HfO<sub>2</sub>-based Memristors for Neuromorphic Applications", *IEEE ISCAS 2016*, p.393
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11. E. Covi, S. Brivio, A. Serb, T. Prodromakis, M. Fanciulli, and S. Spiga, 'Analog memristive synapse in spiking networks implementing unsupervised learning', *Front. Neurosci.*, vol. 10, p. 482, Oct. 2016.
12. S. Brivio, E. Covi, A. Serb, T. Prodromakis, M. Fanciulli and S. Spiga, 'Experimental study of gradual/abrupt dynamics of HfO<sub>2</sub>-based memristive devices', *Appl. Phys. Lett.*, vol. 109, no. 13, p. 133504, Sep. 2016.
13. Isha Gupta, Alexantrou Serb, Ali Khiat, Ralf Zeitler, Stefano Vassanelli & Themistoklis Prodromakis, 'Real-time encoding and compression of neuronal spikes by metal-oxide memristors', *Nature Comms*, 2016.
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