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The first chip was designed to be connected to an external memristor, while the second chip was coated with TiO₂ films owning memristive properties. The biocompatibility of chips was preliminary analyzed by culturing the hybrid motor-neuron cell line NSC-34 and by measuring the electrical activity of cells interfacing the chip with a standard ...

Prototyping a memristive-based device to analyze neuronal ...

A memristor 1 has been proposed as an artificial synapse for emerging neuromorphic computing applications 2,3.To train a neural network in memristor arrays, changes in weight values in the form of ...

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Artificial neural networks built with memristive neurons ...

Memristor can work as a single synapse without programming support, which remarkably satisfies the requirements of neuromorphic computing. Here, the most recent developments in memristor-based artificial synapses are introduced with their excellent synaptic behaviors accompanied with detailed explanation of their working mechanisms.

Recent Advances in Memristive Materials for Artificial ...

A memristor is a silicon-based electronic memory device that mimics the information-transmitting synapses in the human brain to carry out complex computational tasks. The neuromorphic chip, smaller than a piece of confetti, is so powerful that a small portable device could now easily handle the convoluted computational tasks currently carried ...

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However, all of these advances require enormous amounts of computing power and electricity to develop, train and run the algorithms. ... In a neuromorphic device, a memristor serves as the ...

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