

Neuromorphic computing lies at the intersection of robotics, neuroscience, machine learning, and hardware design [3, 4]. However, its application to autonomous agents still requires cohesive ...

Nonlinear photonics is a promising platform for neuromorphic hardware, offering high-speed processing, broad bandwidth, and scalable integration. Within this framework, Reservoir ...

With the development of artificial intelligence and big data, hardware encryption has emerged as a key technology for secure communication. This study developed an HfAlO_x-based memristor ...

Neuromorphic engineering aims to create brain-inspired computing systems based on synaptic electronic hardware and neural network software. It combines intelligent materials, advanced ...

Such a neuromorphic computing mechanism in living tissue involves artificial synapses with synaptic plasticity, dynamics in neurotransmitters, and effective energy transfer. [20] ...

By aligning the discussion with material, process, and application interdependencies, this work is a timely and essential guide for researchers developing next-generation neuromorphic ...

We integrate philosophical theories of multisensory perception with neuromorphic hardware and demonstrate how classical sensory integration concepts can enhance artificial sensory systems. This approach bridges ...

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At its core, neuromorphic computing is an interdisciplinary field that combines principles from neuroscience, computer science, and electronic engineering. Unlike traditional computing ...

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