China Micro-Nano Optical Network

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Returning talent establish innovative international collaborations

In 2019, three young people specializing in ultraprecision optical manufacturing returned to Shanghai to start their own businesses after encouragement from their mentor, Jiang Xiangqian, ...

Researching , China's Top 10 Optical Breakthroughs: Fabrication

The prospect of using lithography technology to optimize the preparation of large-sized micro-nano optical devices with extreme precision requirements will further be explored in the future.

CIOE 2026 , The 26th China International Optoelectronic Expo

At present, micro and nano optical components have been successfully applied in various fields of modern optics, and have very important application prospects in many fields such as sensing and ...

A general neural network structure

based on KAN-transformer for

In this work, we propose a general neural network structure based on KAN-Transformer for the electromagnetic response prediction of Micro/nano-optical devices, which can be used for ...

Scaling up for end-to-end on-chip photonic neural network

Benefiting from these innovations, we designed and fabricated a monolithically integrated optical neural network with the largest input size and the deepest network depth, comprising an input

Update: Chinese-led team achieves world's first 10,000-km quantum

Aiming to create a more cost-effective and scalable global quantum communication network, China focused on developing low-cost micro-nano satellites. In July 2022, Jinan-1 was ...

Researching , Micro-Nano Scale Optical Neural Networks: High

This paper first reviews the development of neural networks and the fundamental concepts of optical neural networks, and then systematically summarizes recent

research advances in micro-nano ...

Micro-nano Optics and Intelligent Sensing

His primary research focuses on micro- and nano-structured optical devices and their applications in spectroscopic sensing. He has undertaken various research projects including special
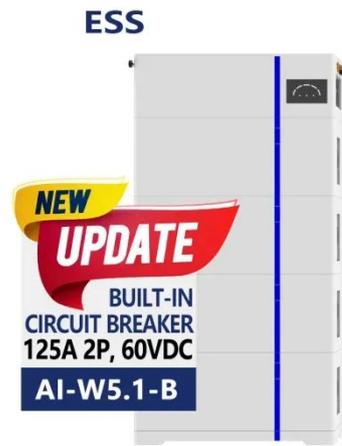
Intelligent Manufacturing Technology Research Institute-Integrated

Mainly engaged in research on micro/nano processing and detection, as well as integrated optoelectronic technology. Published multiple papers in journals such as Optics Letters.

Chip-Based High-Dimensional Optical Neural Network

In this letter, we propose an architecture of high-dimensional ONN, which consists of an on-chip SMC source, WDM module,

and dual-layer ONN.

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