Special Issue

Advances in Neuromorphic Computing and Memristive Technologies

Message from the Guest Editor

This Special Issue aims to present the latest advances in materials, devices, architectures, and real-world applications of neuromorphic computing and memristive systems. We encourage submissions that explore novel materials, innovative memristive devices, bio-inspired computational frameworks, and the practical implementation of these technologies. Original research articles, comprehensive review papers, and case studies are all welcome. Possible themes include, but are not limited to, the following:

- Novel materials for memory devices and applications;
- Novel memristive devices and circuits;
- Neuromorphic architectures for Al and machine learning;
- Bio-inspired memory architectures;
- Integration of memristors with CMOS technology;
- Energy-efficient neuromorphic hardware for edge computing;
- Applications of memory/memristive technologies in optoelectronics and IoT.

Guest Editor

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Deadline for manuscript submissions

closed (15 October 2025)



Electronics

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

