

## Special Issue

# Control of Power Quality and System Stability

### Message from the Guest Editors

This Special Issue focuses on the studies of advanced control methods at the equipment and system levels to improve the power quality and stability of high-proportion power electronic equipment power systems. The topics of interest include, but are not limited to, the following:

- Disturbance source localization and oscillation type identification;
- Modeling and stability analysis of high-proportion power electronic equipment power systems;
- New designs for power quality compensators based on wideband semiconductors;
- Customized design of compensator controllers, including damping, inertia, harmonic and reactive power compensation, etc.;
- Grid-forming control;
- Optimization control, dispatch, and planning of all kinds of compensators;
- Advanced artificial intelligence (AI) methods in the control of power quality and system stability;
- Large-scale real-time simulation technology.

### Guest Editors

Dr. Yi Zhou

Prof. Dr. Buxiang Zhou

Dr. Lizhou Liu

### Deadline for manuscript submissions

15 September 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 guest-edited by leading experts in selected topics of interest.

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### Editor-in-Chief

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