



The Development and Future Prospect of Microwave Photonics

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Message from the Guest Editors

Microwave photonics (MWP) combines the worlds of microwave and photonics to generate, transmit, control, process, and measure microwave signals using photonic devices, systems, and technologies with advantages such as broadband, ground transmission loss, and electromagnetic interference resistance. The continuous growth of MWPs has driven innovative developments in 5/6G communications, deep space exploration, radar imaging, big data computing, and more.

This Special Issue invites manuscripts that introduce the development and prospects of microwave photonics. All theoretical, numerical, and experimental papers are welcome. Topics include, but are not limited to, the following:

- The photonic generation of microwave/millimeter-wave/terahertz signals;
- RoF for B5G/6G data and communication systems;
- The photonic processing of microwave/millimeter-wave/terahertz signals;
- The photonic sensing and measurement of microwave/millimeter-wave/terahertz signals;
- Integrated microwave photonics;
- Quantum microwave photonics;
- Intelligent computational microwave photonics;
- AI microwave photonics;
- Microwave photonic radars;
- Novel device technologies for microwave photonics.

