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High Carrier Mobility Devices Technology and Applications

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Message from the Guest Editors

Dear Colleagues,

The scope of this Special Issue is to highlight research on new devices based on Silicon CMOS, III–V materials, and new 2D materials and their uses for applications in the frequency range from microwaves up to the terahertz. The purpose is to investigate the properties of those materials toward high-speed and high-mobility devices for practical application in security, communication, detection, and generation of electromagnetic radiation. The aim is to introduce new ideas to the research of new materials and its development for ultra-high frequency applications, a very hot topic in research today.

- high carrier mobility
- field effect transistors
- terahertz
- telecommunications
- 6G
- optoelectronic
- plasmonic











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Message from the Editor-in-Chief

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