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Advancements and Applications of Millimeter Wave and Terahertz Vacuum Electronic Devices

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Message from the Guest Editors

Recently, numerous technological breakthroughs have been achieved in millimeter wave and terahertz components, sources, detectors, sensors, and related applications. Millimeter wave and terahertz technologies have been brought from laboratory demonstrations to industrial applications, such as non-destructive inspection and testing, security scanning, electromagnetic biology effect, medical imaging, disease diagnostics, recognition of protein structural states, measurement techniques for materials science and characterization, monitoring of ultrafast dynamics, short-range communications, etc. In order to support more emerging applications, efforts are being made around the world to continuously develop technologies, with a focus on radiation sources, detectors, sensors, imaging arrays, spectrometers, system integrations, and so on.

This Special Issue aims to collect original research and review articles focused on the latest research advances, applications, and new challenges in the field of millimeter wave and terahertz radiation sources, detectors, sensors, and imaging.

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Message from the Editor-in-Chief

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