

## Special Issue

# Terahertz Technology for Communication and Sensing

### Message from the Guest Editors

Terahertz (THz) technology, operating in the 0.1–10 THz frequency range, has attracted significant attention for its transformative potential in both communication and sensing applications. With ultra-high data rates and wide bandwidths, THz communication systems are expected to play a critical role in enabling next-generation wireless networks. Moreover, THz waves possess unique properties making them particularly well suited for sensing applications in healthcare, security, environmental monitoring, and industrial inspection. While THz technology holds immense promise, several challenges persist, including signal attenuation, limited transmission range, and the need for efficient devices and components. Addressing these challenges requires innovations in THz transceivers, antennas, waveguides, and integrated systems. Advances in spectroscopy and imaging techniques further broaden the scope of THz applications, providing insights into material properties and enabling non-destructive testing. This Special Issue aims to serve as a platform for researchers to present recent breakthroughs in THz communication and sensing.

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