

Special Issue

Broadband Terahertz Devices and Communication Technologies

Message from the Guest Editors

The remarkable explosion of wireless devices and bandwidth-consuming Internet applications has boosted the demand for ultra-high data rate wireless communications. To meet the exponentially increasing traffic demand, new regions in the radio spectrum are explored. The terahertz band (0.1 THz-10 THz), is considered as a next breakthrough-point to revolutionize the communication technology attributed to its rich spectrum resources. It is recognized as a promising candidate for future rate-greedy applications, such as 6G communications.

Motivated by the potential of the terahertz wireless communications, this Special Issue seeks critical technology breakthroughs in terms of the terahertz communications. The Special Issue topics include, but are not limited to, broadband terahertz devices, terahertz frontend and antenna design, baseband processing for THz links, terahertz propagation and channel modelling, system-level demonstration of terahertz communications.

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