



Terahertz Nanoantennas: Design and Applications

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Message from the Guest Editors

Dear Colleagues,

Antennas operating in the terahertz (THz) frequency regime, also called nano-antennas, are currently attracting exceptional research interest. This is motivated by a plethora of empowered applications, such as: high speed terahertz communications, ultrafast nanodevices, biosensing, biomedical imaging, photo-detection, energy harvesting, and even the inspection of photovoltaics.

All the above are vast possibilities of nano-antenna structures which enable yet unexplored practical applications in the THz and optical regimes. These constitute research challenges for the years and efforts to come. Efforts toward the study of the involved material properties and the nano-antenna implementation-fabrication and measurements-testing are of equal importance and are highly encouraged.

The purpose of this Special Issue is to lay out the state-of-the-art in the above technologies, as well as to offer an insight into the forthcoming evolutions in the THz and optical nano-antennas, arrays or metasurfaces. Particular emphasis is sought toward achieving tenability and broadband operation.





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Message from the Editor-in-Chief

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