

Special Issue

Advances in Nanotechnology for RF and Terahertz

Message from the Guest Editors

Recently, considerable R and Ds in both industry and academia have been moving towards millimeter-wave, sub-THz, and THz regimes. There has been great potential observed using recent nanodevices, such as Si CMOS, SiGe HBT, III-V devices (HEMTs, HBTs), 2-dimensional nanodevices, and nano optical devices, to realize integrated circuits for low-power consumption, array implementations, and higher output power. This Special Issue will include various multi-disciplinary efforts in both electronics and optics to make millimeter-wave, sub-THz, and THz technologies key enablers for next-generation mobile, radar, and sensor technologies. We will not limit submissions to those areas only, so a broad range of R and D regarding these frequencies will be considered for publication in order to open a public door for next-generation technologies using nano-scale devices.

Guest Editors

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano–alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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