Special Issue

Advances in Nanotechnology for RF and Terahertz

Message from the Guest Editors

Recently, considerable RF 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 ranges 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

Dr. Jung Han Choi

Fraunhofer Instite (Heinrich-Hertz), Berlin, Germany

Dr. Dong-Woo Kang

Electronics Telecommunications Research Institute (ETRI), Daejeon, Republic of Korea

Deadline for manuscript submissions

closed (31 May 2024)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/150264

Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/nanomaterials

MDPI

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/journal/nanomaterials

About the Journal

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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q1 (General Chemical Engineering)

MDPI