

Mini-Symposium on Metamaterial Science and Technology

The theory of metamaterials suggests interesting reversal of several physical laws (e.g. reversal of Doppler Effect, Cherenkov Effect, negative refraction etc.) leading to exciting engineering possibilities. Following actual metamaterial realization and demonstration of its intrinsic properties, both the science and technology of metamaterials have been making rapid progress. Much of the motivation for metamaterial technology is driven by potential, futuristic and strategic applications that are yet to be realized. This has also brought the issue of various approaches to fabrication of metamaterials to the fore. This mini-symposium intends to discuss the state-of-the-art achievements and the emerging trends both in metamaterial science and technology. The scope encompasses microwave, THz, IR regions, and beyond.

Please submit your abstract/paper directly on the ICCES web site and email a copy to one of the organizers given below, before the deadline. When you submit your abstract/paper at the ICCES website, please identify this *Mini-symposium on Metamaterial Science and Technology* for your presentation. Authors, whose papers are accepted, will be invited to submit a full length paper to be published in a special issue of the CMC (Computers, Materials, & Continua).

Specific topics may include but are not limited to:

- Emerging trends in metamaterials
- Physical properties and performance characteristics of metamaterials
- Novel metamaterials structures and metamaterial validations
- Metamaterial applications hardware realization (microwave, THz, IR regions, and beyond)
- Fabrication techniques for metamaterials applications
- Methods for enhancement of metamaterial performance

Organizers

1. Dr. S. Anantha Ramakrishna, Ph.D.
Associate Professor
Department of Physics
Indian Institute of Technology Kanpur
Kanpur 208 016 India
Phone: 91-512-259 7449
Fax: 91-512-259 0914
Email: sar@iitk.ac.in
2. Dr. Rakesh Mohan Jha, Ph.D.
Scientist G & Head, Electromagnetics Group
Computational Electromagnetics Lab.
CSIR-National Aerospace Laboratories
Bangalore 560017, India
Tel: 91-80-2508 6582
Fax: 91-80-2526 8546
Email: jha@nal.res.in

3. Dr. Vinod Tewary (Editor-in-Chief, CMC)
Materials Reliability Division
NIST, 325 Broadway
Boulder, CO 80305, USA
Phone: 001-303-497-5753; FAX: 001-303-497-5030
Email: tewary@boulder.nist.gov