Special Issue

Infrared Nanophotonics: Materials, Devices, and Applications

Message from the Guest Editor

Infrared light radiates from almost all the matter on earth and its strategic use will be an important issue for the enhancement of human life and the sustainable development of modern industry. Since it has the frequency in the same region as the phonons or molecular vibrations of the materials, measuring its emission or absorption spectra helps us in characterizing and identifying the materials in a non-destructive manner. Meanwhile, if we can spectroscopically design the infrared emission by tuning the chemical composition or artificially controlling the nano- to mesoscale structures, it will have great impact on industrial applications, such as in thermophotovoltaics, energy-saving drying furnaces, spectroscopic infrared light sources, and various types of infrared sensors.

Guest Editor

Prof. Dr. Tadaaki Nagao

1. Photonics Nano-Engineering Group, National Institute for Materials Science (NIMS), 1-1 Namiki, Tsukuba 305-0047, Ibaraki, Japan
2. Nano-System Photonics Group, Department of Condensed Matter Physics, Graduate School of Science, Hokkaido University, Sapporo, Japan

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

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Editor-in-Chief

Prof. Dr. Ai-Qun Liu
1. Department of Electrical and Electronic Engineering, The Hong Kong Polytechnic University, Hong Kong, China
2. School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore 639798, Singapore

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