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Low Cost Mid-Infrared Sensor Technologies

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Deadline for manuscript submissions:

closed (31 March 2021)

Message from the Guest Editors

Dear Colleagues,

Low cost optical sensing technology has mainly been limited to visible and near infrared (IR) wavelengths; however, there is increased demand for low cost optical sensing technology for longer mid-IR wavelengths (2.5–25 μ m), for applications including air quality monitoring, thermal imaging, spectroscopy, chemical and bio sensing.

Recent advances in the field of low cost mid-IR sensing technology have included the development microbolometer based thermal imaging cameras, plasmonic emitters and detectors. LEDs. waveguides, pyroelectric and thermopile detectors. These advances have made it possible to develop compact and inexpensive systems for mid-IR sensing applications.

This Special Issue aims to bring together work from researchers active in the development of innovative mid-IR sensor technology, with a focus on low cost optical components and systems which could be used in the future generation of smart sensors for consumer products. For more information, please visit: mdpi.com/si/38551

Dr. Daniel Popa Dr. Richard Hopper Dr. Peter Carrington Guest Editors













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Message from the Editor-in-Chief

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