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Rapid Screening in the Life Science Based on Photonics and Plasmonics Technology

Guest Editors:

Dr. Fulvio Ratto

Istituto di Fisica Applicata "Nello Carrara", Consiglio Nazionale delle Ricerche (CNR-IFAC), 50019 Florence, Italy

Dr. Francesca Rossi

Institute of Applied Physics "Nello Carrara", CNR-IFAC, Via Madonna del Piano 10, 50019 Sesto Fiorentino, Italy

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Message from the Guest Editors

Rapid screening is becoming an urgent need in life science. Efficient and cost-effective devices for fast identification of viral or bacterial fingerprints are crucial for the restoration of normal daily activities during and after the pandemic. Besides, monitoring of pharmacological treatments is of utmost importance in long-term healthcare and in preventing infections (such as sepsis or in the treatment of chronic wounds).

Sensing allergens, pathogens and contaminants fulfills a key role in food safety.

Photonics and plasmonics can support the development of integrated platforms enjoying the appropriate accuracy and complying with the design of compact, portable and easy-to-use devices for biosensors and biomarker recognition with fast response.

Keywords:

- biomarkers
- nanoparticles
- laser
- photoacoustics
- Raman
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- food safety
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- infection
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Message from the Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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