

Special Issue

Micro-Nano Sensors and Materials for Health, Physical Applications, Electronics, Photonics and Energy

Message from the Guest Editors

Society is always striving to evolve, to develop new technologies and can help mankind on a daily basis. Micro- and nanomaterials have been playing a major role in the development of innovative technologies and can now be found in our daily life. Ever since they emerged the number of possible applications grew exponentially and now they can be used as sensors in areas as diverse as, environment (e.g., pollutants, gases), agriculture (e.g., in food packaging and food safety), and health (e.g., guided-drug delivery systems, bacterial and viral sensing). Indeed, they played a major role in the development of new technologies for SARS-CoV-2 during the current pandemic. Their versatility is also demonstrated by their application in energy storage devices, LEDs, smart windows, among others. The synthesis methods of these materials is also as diversified as their applications and the development of faster and sustainable methods for their production is maximizing their real application in health, physical, electronics, photonics, and energy. This is an area of great expansion that can provide powerful tools in numerous areas.

Guest Editors

Dr. Helena M. R. Gonçalves

REQUIMTE, Instituto Superior de Engenharia do Porto, 4200-072 Porto, Portugal

Dr. Marita A. Cardoso

REQUIMTE, Instituto Superior de Engenharia do Porto, 4200-072 Porto, Portugal

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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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