



Recent Advances in Functionalized Material Manufacturing Based on Laser Techniques

Guest Editors:

Dr. Ainara Rodriguez

Dr. Isabel Ayerdi

Dr. Mikel Gomez-Aranzadi

Deadline for manuscript
submissions:

closed (31 October 2021)

Message from the Guest Editors

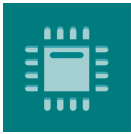
Laser functionalization has attracted a great deal of attention due to its ability to modify the properties of a material, at microscale and nanoscale, by keeping the bulk material intact. Thus, it has been used to produce materials and surfaces with unique properties for a wide range of applications, including tribological applications, heat transfer applications, as well as materials with unique wettability, superior corrosion behavior, or optical properties. Moreover, these materials with improved properties can be further exploited as materials for sensors and actuators.

This Special Issue of *Sensors* welcomes both reviews and original research articles in the field of material functionalization using laser techniques as well as on their use for sensing application.

Topics include, but are not restricted to the following:

- Laser manufacturing techniques:
 - Laser ablation
 - Laser-induced periodic surface structures
 - Laser interference lithography
 - Laser-induced forward transfer
 - Laser additive manufacturing
- Sensors based on materials functionalized with laser techniques:
 - Optical sensors
 - Biosensors
 - Gas sensors
 - Chemical sensors





sensor.

Indexed in:
PubMed

CITESCORE
7.3

IMPACT
FACTOR
3.4

an Open Access
Journal by MDPI

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

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Message from the Editor-in-Chief

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.

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)