

Sensors and Materials

Special Issue on Optical Sensors: Novel Materials, Approaches, and Applications

Call for Papers

Novel sensing methodologies based on optical sensors continue to develop rapidly with advances in physics, material science, chemistry, biology, engineering, and medicine. The growing interest in optical sensors has arisen owing to their well-known characteristics such as high sensitivity, electrical passively, in situ measurement, sample non-destructiveness, and immunity to external electromagnetic interference. Optical detection can be realized by measuring the changes in the amplitude, phase, frequency of signals, or the polarization of light in the case of an interaction of a target molecule or recognition element with an optical field. Therefore, much research has been carried out in recent years to increase the signal intensity as a key to further improving the performance of optical sensors. This special issue aims to provide a broad platform for publishing recent developments in novel bio/chemical materials or receptors for optical sensors, new approaches or configurations based on optical sensors, and novel experimental setups for optical sensors toward improving the sensitivity and selectivity of optical sensors in numerous fields including medical analysis and diagnostics, environmental monitoring, agriculture, food safety and security, and industry.

Scope:

- Optical sensors
- Fiber optics sensors
- Surface plasmon resonance (SPR)
- Optical studies and properties
- Sensor materials and thin films
- Bio/chemical materials
- Nanoparticles and quantum dots
- Environmental monitoring
- Health monitoring
- Industrial monitoring, and so on.

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Guest Editor: Dr. Yap Wing Fen (Universiti Putra Malaysia)

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(Attention)

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If you have any questions, please feel free to contact the editorial staff at the address below.

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