

Sensors and Materials

Special Issue on 2021 International Virtual Conference of Green Materials Applied in Photoelectric Sensors (2021 ICGMAPS)

Call for Papers

In the last few years, research on green materials used in photoelectric sensors and their applications has witnessed a tremendous boost. Green materials in photoelectric sensors can be engineered to exhibit unique photonic and electrical properties. Extremely recycled materials have been made commercially available for developing customer-specific photoelectric sensors, where the processing is usually environmentally friendly and cost-effective. As a result of advances in research, materials genome informatics can be integrated in the synthesis and fabrication of green materials in photoelectric sensors and the prediction of the material properties.

This special issue will attempt to summarize the latest achievements in green materials in photoelectric sensors from materials genome informatics to recycled materials. Emphasis will be given to the development of green materials for use in sensing devices, including green materials, environmentally friendly materials, green fabrication, green processes, recycled materials, recycling processes, and related materials developed by materials genome informatics.

Papers that discuss the latest research in a specific area of green materials used in photoelectric sensors are sought. Authors are encouraged to demonstrate novel photonic devices, explain device physics or unique phenomena, introduce novel green fabrication techniques, and report new concepts and practical applications based on materials genome informatics in relation to photoelectric sensors. Papers that review the progress of research in the broader field and predict future development directions are also sought.

Scope:

A. Micro/nanooptics of green materials in sensors:

Small-scale optics, Guided light, Optical materials, Plasmonics

B. Photonic and optical energy in photoelectric responses:

Photovoltaics and solar energy, Optoelectronic devices, Organic optoelectronics

C. Photonic and optical technologies in photoelectric sensors:

Biomimetic optics and photonics, Biophotonics and optics for biological and medical devices, Nonlinear optics, Optical measurement, Manufacture of optical elements, Optical data transmission, Optical material processing

D. Artificial intelligence in sensors:

Big data, Artificial intelligence, Machine learning, Databases, Simulations, Numerical methods, Materials Genome Initiative, Materials information in optics and photonics

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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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