

EUROMAT 2019 / Area A

SYMPOSIUM: A6

Title: Photonics and Photoactive Materials		
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Abstract

This symposium will deal with fundamental properties and applications of innovative photonic and photoactive materials. Recently, the development of materials and nanomaterials with specific functionalization and the possible nanostructurization up to dimension small as never before, pushed the Photonics to an unbelievable level. Generation of light, absorption, emission, transmission, optical sensing and probing, signal processing and data transmission are only few of the properties related to this increasingly growing field.

Experimental and theoretical studies on properties, characteristics and applications of photonic and photoactive innovative materials are welcomed.

Targeted topics include, but are not limited to:

- Photonic structures
- Silicon photonics
- Nanomaterials
- Plasmonics
- Self-assembled photonic nanostructures
- Photoactive molecules
- Luminescent materials
- Optical sensors
- Photonic/Photoactive materials for bioimaging and biomedical applications
- Materials for optical data transfer, processing and storage
- Innovative materials for light sources and lasers