

UV and Higher Energy Photonics: From Materials to Applications 2019

This conference has an open **call for papers**:

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Important Dates

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Abstract Due:
30 January 2019

Author Notification:
8 April 2019

Manuscript Due Date:
17 July 2019

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Call for Papers

Recently, there has been a rapid and significant progress in the field of UV and higher energy photonics (UV to EUV) due to the availability of new UV and high energy light sources. Nano-materials such as nucleotides and proteins known as the essential biomolecules in living cells and semiconducting or plasmonic materials used in advanced nano-devices are analyzed and detected, imaged, and/or manipulated with use of UV and higher energy photons. Starting from the material growth related aspects, this conference includes theories and novel concepts on UV and higher energy photonics. It also includes experiments and developments of methods and instruments, which are used as devices for applications in catalysis, nano-lithography, nano-imaging, disinfection, analytical sensing but also in nano-photonics, bio-medical photonics, materials sciences and green and environmental sciences.

The chairs of the conference proudly announce that the Young-Scientist award will be given to two outstanding presentations respectively in oral and poster sessions. Successful candidates must convey significant scientific content with a demonstrated excellent style of presentation including questions and discussions.

UV and higher energy materials and light sources

- high band gap semiconductors
- LEDs and lasers for UV and higher energy
- nonlinear and ultrafast photonics for UV and higher energy
- fiber optics for UV and higher energy
- photonic crystal fibers



- high harmonic generation
- UV to EUV optics and sources.

UV and higher energy microscopy

- resonant Raman microscopy
- nonlinear microscopy
- super-resolution microscopy
- plasmonics in UV and DUV
- coherent scattering imaging.

UV and higher energy spectroscopy

- resonance Raman spectroscopy
- absorption spectroscopy
- fluorescence spectroscopy.

Applications of UV, deep UV, vacuum UV, and extreme UV photonics

- holography
- lithography
- photocatalysis
- decontamination
- material properties
- materials processing
- photoresists
- photodissociation
- photodamage
- environmental analysis
- energy production.

UV and deep UV biosensing and analysis with UV and higher energy photonics

- biosensor and analysis
- structure and dynamics of biomolecules
- native-fluorescence
- photochemical effect on biomolecules.

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