



ICANS28

28th International Conference on Amorphous and Nanocrystalline Semiconductors

4-9 August 2019, Ecole Polytechnique, Palaiseau, France

<https://icans28.sciencesconf.org/>

About the Conference

The 28th International Conference on Amorphous and Nanocrystalline Semiconductors (ICANS) organized every two years, started in 1965 in Prague with the name of International Conference on Amorphous and liquid Semiconductors (ICALS) to focus on fundamental and applied physics. With a long journey of 54 years the liquid semiconductors have left the floor to microcrystalline, nanocrystalline, and organic semiconductors.

Scopes and Topics

The scope of the conference covers a wide range of amorphous, microcrystalline and nanocrystalline organic/inorganic semiconductors together with the effects of disorder in semiconductors and dielectrics. Material modeling, characterization and fundamental physics of various materials are the heart of the conference. The properties of metal oxide based semiconductors and hybrid perovskites are also emerged as important subjects of the conference. The practical applications of different materials in various electronics devices such as thin-film transistors (TFT), solar cells, light emitting diodes, sensors, etc. are also covered.

Papers are welcome on all aspects of semiconductors where disorder is introduced (amorphous, poly/micro/nano/crystalline semiconductors, interfaces). Topics include the fundamental physics and chemistry governing electronic and physical structure, preparation and characterization of materials, measurements and modeling of electronic, optical, and physical properties, stability and metastability and applications including photovoltaics, sensors, Thin-Film-Transistors (TFTs), and LEDs.

Material systems include amorphous and nanocrystalline group IV elements, III-V compounds, as well as alloys, chalcogenide glasses, oxide semiconductors, and organic semiconductors in the form of thin films, bulk, multilayers, or nanostructures.