

**Title:**

Advanced Polymer Materials

Abstract:

The workshop “Advanced Polymer Materials” is a new constituent in the 5th International Conference on Artificial Intelligence and Security (ICAIS 2019). Our goal is to provide the opportunities for the new frontiers in advanced polymer-based materials that usually are the lightweight and high-performance material with high strength and low weight. It will be a good chance to meet and discuss with experts and scientists in various areas. We will provide a forum for researchers, academicians, engineers, industrial professionals, students and government officials discussing all the important issues in advanced polymer materials. Advanced polymer materials products range from skateboards to components of the space shuttle. Recent advances in polymer research has led to the generation of high quality materials for various applications in day to day life. The synthesis of new functional monomers has shown strong potential in generating novel polymer materials, with improved properties. Advanced polymer materials have also been used widely in the high-performance equipment such as golf, tennis, fishing, the industrial and automotive markets. The costs of advanced polymer materials are expected to decline to the point at which these materials will be used widely in electronic, machinery, and surface transportation equipment. We invite investigators to contribute original research articles as well as review article that explore aspects of new advanced polymer materials and high-performance polymer materials, include resin, reinforcement, and manufacturing technology.

The workshop consists of oral and poster presentations. All the scientists, researchers and students from all over the world on the advanced polymer materials and the related are greatly welcome to join us.

Scope and Topics:

The objective of this workshop is to invite authors to submit original manuscripts that demonstrate and explore current advances in all aspects of advanced polymer materials. The workshop solicits novel papers on a broad range of topics, including but not limited to:

- ✧ Composites
- ✧ Polymer Materials
- ✧ New Functional Materials
- ✧ Materials Physics and Chemistry
- ✧ Thin Films
- ✧ Hydrogen and Fuel Cell Science, Engineering & Technology
- ✧ Surfaces, interfaces and colloids



- ✧ Polymers and amorphous materials
- ✧ Soft and granular matter
- ✧ Testing and Evaluation of Materials
- ✧ Tooling Testing and Evaluation of Materials
- ✧ All the others related to the advanced polymer materials

Program Committee Chairs:

Jianwei Li, University of Turku, Finland

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Prof. Jianwei Li started his research training in supramolecular chemistry in Prof. Huakuan Lin's lab at Nankai University. After completing a PhD degree at the University of Groningen (the Netherlands) with Prof. Sijbren Otto, investigating self-assembly in complex chemical systems, he joined the group of Prof. Hagan Bayley in Oxford University, UK as a postdoctoral researcher, where he explored reversible chemical reaction and catalysis in protein nanopores at single-molecule level. Then he started his independent career funded by Turku Collegium for Science and Medicine (TCSM) as a senior researcher at the department of chemistry, University of Turku. In the following years, he will be leading a group to play the interface between systems chemistry and other emerging fields such as materials chemistry, enzymology and biomedicine.

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Qixin Zhuang is a Professor in the School of Materials Science and Engineering, East China University of Science and Technology. Along his career, he has published over 70 research papers on the SCI journal. His research interests include high performance polymer fiber and high-performance polymer material.

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Xiaoyun Liu is a Professor in the School of Materials Science and Engineering, East China University of Science and Technology. He has published over 60 SCI research papers about the high-performance polymer materials. His research interests include high-performance polymer resin and its application on the multi-functional composites and advanced composites.

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