

Welcome to 7th International Symposium on Solar Fuels and Solar Cells

Dear Colleagues,

On behalf of the Organizing Committee, we are proud to announce that the 7th International Symposium on Solar Fuels and Solar Cells (7th SFSC) will be resumed since the world now is completely recovered from the COVID-19 pandemic. The tentative venue and date of the symposium are as follows:

7th SFSC

Venue: Dalian, China

Date: September, 2024

Website: <https://7thSFSC.scimeeting.cn>

Energy and environment problems have been emerged as two major challenging issues for the global sustainable development. The motivation of the 7th SFSC is to continuously provide a highly standard academic forum for scholars to exchange and share their experiences and ideas, discuss advances and scientific challenges, and identify the future research directions in the development of efficient conversion of solar energy into solar fuels and solar electricity. We hope that the 7th SFSC symposium will bring together both young and experienced scientists from all regions of the world, and open up avenues for research collaborations at both regional and global levels.

The scope of this symposium mainly focuses on two most important research fields in solar energy conversion, i.e., solar fuels and solar cells:

For Solar Fuels:

- Photocatalysts, electrocatalysts and photoelectrocatalysts for energetically uphill reactions, including water splitting, carbon dioxide reduction, nitrogen reduction and synthesis of high value-added chemicals.
- Homogeneous and heterogeneous catalytic systems/devices for solar fuels production.
- Function mimicking of natural photosynthesis for artificial photosynthesis.
- Artificial photosynthesis for synthetic fuels, food, drugs and environmental remediation.
- Key engineering technologies for large-scale solar fuels production.
- Advanced spectroscopic techniques in artificial photosynthesis research.
- New theories, mechanism, methods and strategies for efficient solar energy conversion and storage.

For Solar Cells:

- Solar cells based on perovskites, organic/polymer semiconductors, silicon, quantum dots, etc.
- Flexible, semi-transparent, or tandem solar cells and their applications.
- Large-scale fabrication of solar cells and modules.
- Integration of photovoltaics and energy storage systems.
- Novel theories, materials, methods, and technologies for photovoltaics.

Special features of the 7th SFSC:

- **Panel discussion.** Arrangement of a high level panel discussion on the future research direction of solar fuels and solar cells.
- **Innovative collaboration.** Arrangement of a special session for the discussion of international collaboration within the framework of “Innovation Community on Sunlight to X” platform of Mission Innovation for Clean Energy (<https://mission-innovation.net/platform/innovation-community-on-sunlight-to-x/>)
- **Manuscript invitation.** Highly innovative work will be invited for submission to the newly opened ACS journal of Artificial Photosynthesis.
- **Workshop.** Arrangement of a special workshop on artificial photosynthesis lectured by international eminent specialists.

The SFSC is a highly standard biannual symposium rotationally chaired by Prof. Can Li from Dalian Institute of Chemical Physics, Chinese Academy of Sciences and Prof. Licheng Sun (now at Westlake University, China) starting from 2008. The 7th SFSC was planned for 2020 but canceled due to the outbreak of COVID-19 pandemic. Based on previous five very successful symposiums, we are anticipating a more exciting one for this 7th SFSC.

Through the 7th SFSC, we hope that more innovative scientific ideas towards efficient solar energy conversion into solar fuels and solar electricity can be triggered. We also sincerely hope that collaborations between individual scientists or even between institutes and countries can be initiated since energy and environmental problems are global issues. This is in line with the proposition by the Chinese government to “build a community of shared future for mankind”.

The organization committee sincerely welcomes colleagues from home and abroad working in the field of solar fuels or solar cells actively participate in the symposium. And we also welcome financial supports by means of contribution, donation or sponsorship.

For more details about the symposium organization, please contact Prof. Rengui Li (rgli@dicp.ac.cn)

For more details about the financial support of the symposium, please contact Ms Min Zheng (mzheng@dicp.ac.cn; +86-0411-84379005)

Your participation will be a great beneficial for the success of the symposium. We hope you will have a memorable and impressive experiences on 7th SFSC in 2024, and look forward to meeting you in the beautiful coastal city of Dalian!

Sincerely,



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