

TOCAT9

Fukuoka 2022

9th Tokyo Conference on Advanced Catalytic Science and Technology

July 24 - 29, 2022

Fukuoka International Congress
Center
2-1 Sekijo-machi, Hakata-ku,
Fukuoka 812-0032
Japan



Second Circular / Call for Papers

Organized by Catalysis Society of Japan

URL: <https://tocat.catsj.jp/9>



Photo courtesy of Fukuoka City

Key Dates

Deadline for abstract submission	October 31, 2021
Notice of acceptance of papers	February 28, 2022
Deadline for early-bird registration	April 15, 2022
TOCAT9	July 24-29, 2022

Organizing Committee

Conference Chair: T. Ishihara (Kyushu Univ.)
Secretary: M. Machida (Kumamoto Univ.)
Program Chair: H. Einaga (Kyushu Univ.)
Financial Chair: S. Ida (Kumamoto Univ.)
Vice Secretary: A. Takagaki (Kyushu Univ.)

Executive Committee:

Y. Amao (Osaka City Univ.), J. Kubota (Fukuoka Univ.), A. Muramatsu (Tohoku Univ.), H. Seki (JGC C&C), H. Yahiro (Ehime Univ.), H. Yamashita (Osaka Univ.)

Program Committee: F. Amano (Univ. Kitakyushu), H. Asakura (Kyoto Univ.), H. Einaga (Kyushu Univ.), H. Imai (Univ. Kitakyushu), M. Koyama (Shinshu Univ.), Y. Matsumoto (JGC C&C), K. Mori (Osaka Univ.)

Correspondence

Prof. Masato Machida
Secretary, TOCAT9
Faculty of Advanced Science and Technology,
Kumamoto University, Kumamoto 860-8555, Japan
Phone +81-96-342-3651
E-mail: tocat9@catsj.jp URL: <https://tocat.catsj.jp/9>

Venue

The scientific activities of TOCAT9 will be held at “Fukuoka International Congress Center”. It is a world-class convention complex located on waterfront of Fukuoka City. This area has good accesses to Hakata Station and Fukuoka Airport where there are many international flights to Korea, China, and East Asia. <https://www.marinemesse.or.jp/eng/congress/>

Invitation

The 9th Tokyo Conference on Advanced Catalytic Science and Technology (TOCAT9) will be held from July 24 to 29, 2022 in Fukuoka, Japan, under organization of the Catalysis Society of Japan (CATSJ). CATSJ will organize this meeting as a continuation of TOCAT (1990), TOCAT2 (1994), TOCAT3 (1998), TOCAT4 (2002), TOCAT5 (2006) TOCAT6/APCAT5 (2010), TOCAT7 (2014), and TOCAT8 (2018). The past eight TOCAT conferences have earned a good reputation as a new series of international conferences on catalysis that has significantly filled the gap between research and technology in catalysis.

Scope of the Conference

Stimulating closer ties between academia and industry and encouraging young researchers in the field of catalysis are the central concept of this conference. This conference should greatly contribute to exchanging new ideas and technologies and promoting developments of new outstanding catalysts and systems under the scope that catalysis is a highly and eagerly demanded technology in industries and for sustainable society and drives innovation in many other fields.

Papers on the following topics are welcome.
General session

- New concepts for catalysis
- Advanced materials for catalysis
- Fundamentals and characterization
- Green & sustainable catalysis
- Catalysis in energy conversion
- Environmental catalysis
- Photocatalysis
- Solid acids and bases
- Selective oxidation
- Organometallic catalysis
- Biocatalysis
- Reactor engineering
- Electrocatalyst
- Computation in catalysis

Industrial session

- Introduction of recently developed and/or commercialized industrial catalysts and processes
- Emission control
- Green & sustainable processes
- Petroleum refining and petrochemicals
- Fine and chiral synthesis
- Polymerization

Scientific Program

The scientific program will consist of plenary lectures for overall sessions, keynote lectures for parallel sessions, contributed oral presentations for each session and posters. Plenary lectures are listed below.

Prof. Atsushi Fukuoka (Hokkaido University)
“Biomass conversion into renewable chemicals”

Prof. Graham J. Hutchings (Cardiff University)
“Catalysis using gold containing nanomaterials”

Dr. Jerzy Klosin (The Dow Chemical Company)
“Development of Homogeneous Olefin Polymerization Catalysts with Tunable Selectivity”

Dr. Omer Refa Koseoglu (Saudi Aramco)
“Challenges in refining and petrochemical catalysis”

Dr. Takeshi Morikawa (Toyota Central R&D Laboratories)
“Toward Industrial Applications of Photocatalytic and Photoelectrochemical Systems for Environmental Improvement and Energy Recycling”

Prof. Jens K. Nørskov (Technical University of Denmark)
“Activating N₂ - the Haber-Bosch process and beyond”

Prof. Unni Olsbye (University of Oslo)
“Methanol-mediated conversion of CO₂ to light olefins and fuels - fundamental and applied aspects”

Prof. Hiromi Yamashita (Osaka University)
“Design of Nanostructured Catalysts for Hydrogen-Carbon Cycles”

Prof. Tao Zhang (Dalian Institute of Chemical Physics)
“Heterogeneous Single-Atom Catalysis”



Fukuoka International Congress Center (Photo courtesy of Fukuoka City)

Abstracts

Those who wish to present a paper in the sessions are requested to submit an abstract (A4 size, 2 pages). The format of the abstracts is shown on our website (<https://tocat.catsj.jp/9>). Desirable mode of presentation (oral or poster) should be selected at the abstract submission on the website. Selection of paper and the mode of presentation will be decided by the Organizing Committee based on the abstracts. The abstracts will be delivered in a USB flash drive. The abstracts must be received on our website by October 31, 2021. Notice of acceptance will be sent by the Organizing Committee to the authors by February 28, 2022. The detailed information of the submission will be announced on the website.

Publication

The contributors to the oral presentation will be invited to submit a paper to *Catalysis Surveys from Asia* appearing in a special issue devoted to the conference. All manuscripts will be peer-reviewed following a standard procedure and the acceptance will be decided by the Editors. The detailed information of the submission will be announced on the website.

Pre- & Post-Symposium

“Taipei International Conference on Catalysis” (Pre-symposium)
Date: July 20-22, 2022, Place: Taipei, Taiwan
Chair: Prof. Kevin C.-W. Wu (National Taiwan University)

Date: July 30-August 2, 2022, Place: Sendai & Sapporo
Chair: Prof. Atsushi Muramatsu (Tohoku University) & Prof. Ken-ichi Shimizu (Hokkaido University)

Registration Fee

One-line early-bird registration (by April 15, 2022)	
General participant	80,000 JPY
Students	15,000 JPY
On-site registration (after April 16, 2022)	
General participant	90,000 JPY
Students	20,000 JPY
Option	
Accompany person(s)	10,000 JPY
Welcome reception	Free
Banquet	10,000 JPY