

As the conference chairman of the 23rd World Hydrogen Energy Conference (WHEC-2020), it is my great pleasure to cordially invite you to Istanbul to attend this prestigious conference. WHEC is a unique event for all researchers, scientists, academicians, and professionals working in the field of hydrogen energy systems; from production to storage and to end use options such as fuel cells. This conference will provide an effective platform for contributions to the development and enhancement of hydrogen energy systems as well as a place to interact with researchers from all around the world to gain a better understanding of the use of hydrogen energy systems for a sustainable future. Much like past WHECs, WHEC-2020 will not only provide an outlook on the current research activities, but it will also shape the future of hydrogen energy systems. As a city that connects two continents, Istanbul has always been strategically important and hosting the 23rd WHEC in Istanbul will bring researchers from different continents together to promote hydrogen energy systems and share their innovative ideas. Turkey is dedicated to increasing the share of renewables in its energy supply and hydrogen energy systems are promising candidates. Therefore, Turkey has increased its research, innovation and technology development activities to produce, store, and use hydrogen in an affordable, reliable, safe, clean, and sustainable manner. Given these activities as well as the financial investment and dedication to hydrogen energy systems in Turkey, Istanbul is clearly the perfect host city for this event. Given the influence of the prestigious International Association of Hydrogen Energy (IAHE), the support of the Turkish National Hydrogen Association, the International Energy Agency (IEA), the International Partnership for Hydrogen and Fuel Cells in the Economy (IPHE), the reputation of the WHECs, the launch of the Hydrogen Council, and the historic and strategic importance of the beautiful host city, Istanbul, it is expected that WHEC-2020 will turn out to be a success story with strong participation and global influence.

I look forward to welcoming you to Istanbul on July 5, 2020.

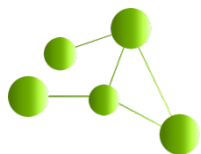
Prof. Dr. Ibrahim Dincer

Chairman of WHEC-2020

Vice President for Strategy, International Association for Hydrogen Energy

Vice President, World Society of Sustainable Energy Technologies

President, National Hydrogen Association



**Международная научно-практическая молодежная конференция
«Перспективные материалы конструкционного и функционального назначения»**

21–25 сентября, 2020

Томск

Организатор: Томский политехнический университет

Участникам Международной научно-практической конференции

Цель конференции: Обмен научными знаниями и компетенциями в области науки о материалах и новых технологиях производства изделий машиностроительного и функционального назначения, обсуждение и поиск решений проблем интеграции молодых специалистов в научную и производственную среду.

К участию приглашаются школьники, студенты, магистранты, аспиранты, молодые ученые, преподаватели и специалисты в возрасте до 35 лет, получившие новые научные результаты индивидуально или в соавторстве.

Секции:

Проблемы надёжности конструкционных материалов

- Прочность, пластичность и усталостная долговечность материалов
- Методы исследований, диагностики и ресурсных испытаний материалов
- Проблемы эксплуатации материалов в экстремальных условиях
- Структурные исследования конструкционных материалов

Функциональные материалы

- Материалы для возобновляемых источников энергии
- Термостойкие и хладостойкие материалы
- Наноматериалы и технологии получения изделий из них
- Композиционные материалы на металлической, керамической и полимерной основе
- Биоматериалы



Модификация поверхности

- Методы модифицирования поверхности
- Структура и свойства покрытий полифункционального назначения
- Технологии поверхностной обработки материалов

<https://portal.tpu.ru/science/konf/mt>

**7th Edition of International Conference on Catalysis,
Chemical Engineering and Technology**



International Conference on Catalysis, Chemical Engineering and Technology during October 28-29, 2020 in Tokyo, Japan and mainly focus on the theme “*New strategic avenue to foster the advanced techniques in Catalysis and Chemical Engineering.*”

CCT 2020 aims to bring together the renowned researchers, scientists, and scholars to exchange and share their experiences on all aspects of Catalysis and Chemical Engineering. It is also an immense platform to present and discuss the utmost advances, concerns and drifts as well as pragmatic challenges and solutions adopted in the field.

Scope: The main scope of the conference is to act as an international forum for the dissemination of knowledge, advancing the theoretical and practical considerations of this subject area. Abstracts will be welcomed, specially those which bring new insights and observations from the applications of Catalysis, Chemical Engineering and Technology.

Scientific Sessions

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| <ul style="list-style-type: none"> • Chemical Engineering • Synthetic Chemistry Techniques • Catalysis for Renewable Sources • Green Chemistry • Heterogeneous catalysis • Environmental Catalysis • Fluid Mechanics • Catalysis and Zeolites | <ul style="list-style-type: none"> • Advances in Catalysis and Chemical Engineering • Industrial Catalysis and Process Engineering • Catalytic Materials • Petrochemical Engineering • Photochemistry, Photobiology and Electrochemistry • Biocatalysis and Biotransformation • Homogeneous catalysis, Molecular Catalysis • Reaction Chemistry and Engineering |
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<https://catalysis-conferences.com/>



After tremendous endeavors, Nanophotonics has already departed from its infancy and stepped into an exciting era, where research ideas and theoretical concepts are being vigorously transferred into functional devices and real-life applications. The fifth edition of the NANOP conference identifies the successful development of Functional Nanophotonics over the last decades as well as outlines upcoming research directions and topics, offering a vibrant platform for scientists to discuss, share, and fantasize.

Topics

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| <ul style="list-style-type: none"> • Photonic & plasmonic nanomaterials • Optics and transport on 2D materials • Metamaterials and metasurfaces • All dielectric nanophotonics • NanoAntennas • Strong light-matter interactions at the nanoscale • Quantum nano-optics • Nano-Optomechanics • Nano-optical trapping | <ul style="list-style-type: none"> • Quantum dots and colour centres • Enhanced spectroscopies • Optical sensing • Bottom-up approach enabled nanophotonics • Nanoscale photothermal effects • Hot Electrons • Nonlinear & ultrafast nano-optics • Advanced imaging • Topological photonics & Non-reciprocal nano-optic |
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