

We cordially invite you to join the **16th virtual International Excellence Talk** with **Dr. Po-Ya Abel Chuang** on the topic

Electrocatalytic Materials and Design: Towards Hydrogen Energy Sustainability

on **Thursday, February 9, 2023 at 5:00 PM (CET)**

Zoom Link



Dr. Po-Ya Abel Chuang

- Associate Professor in School of Engineering, University of California, Merced, USA
- Research interests: PEMFC, AEMFC, water electrolysis, thermal management, loop heat pipe, two-phase heat transfer and fluid flow, and porous material
- Author of more than 50 combined journal publications and international patents
- Recipient of multiple awards including Hellman Fellow, Distinguished Undergraduate Teaching award, UC Merced; Discovery Park Research Fellowship, Purdue University; Honorary Member of Beta Gamma Sigma Honor Society, etc.
- KIT International Excellence Fellow (2022) at the Helmholtz Institute Ulm (HIU), a facility launched by the Karlsruhe Institute of Technology together with Ulm University

Abstract: *Fuel cell and electrolysis technologies are key solutions to future energy sustainability. Our research efforts at UC Merced are focusing on fundamental electrochemical study for applications such as low-temperature PEM and AEM fuel cell and electrolyzer. In my presentation, I will introduce our research activities in the following four areas: 1) Electrocatalytic Materials and Design, 2) MEA Design, Processing, and Integration, 3) Fuel Cell Testing and Characterization, and 4) Electrochemical Cell Diagnostics and Modeling.*

Participation

The event will be held via Zoom. In order to participate, just click on this **Zoom Link.**

After the keynote lecture, we invite you to join the informal discussion with Dr. Chuang and other participants.

No registration is necessary.

In case you have any questions or would like to receive updates on topics, lecturers and more, please send us an email to ieg@intl.kit.edu.

Recordings of previous talks

To get inspired before this talk, have a look at our previous speakers and topics on the KIT International Excellence **YouTube Channel** as well as on the **website**.



Recording of the last talk
Dr. M. Veronica Ganduglia-Pirovano, International Excellence Fellow of KIT (2022) and Member of the National Academy of Exact, Physical and Natural Sciences Argentina (2020). In her talk, Dr. M. Ganduglia-Pirovano elaborated on the potent greenhouse gases methane and carbon dioxide and the significance of their conversion to valuable resources to a greener future.

The lecture series is organized by the International Scholars and Welcome Office (IScO) of KIT in the framework of the International Excellence Grants Program with funds granted to the University of Excellence concept "The Research University in the Helmholtz Association I Living the Change" in cooperation with the Humboldt-Regional Group Karlsruhe-Pforzheim.

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