

Yu Katayama

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EDUCATION

Ph.D. in Engineering, Kyoto University, 2017 — doctoral research carried out at the Massachusetts Institute of Technology, Department of Mechanical Engineering, 2016–2017. **M.Eng.** 2015 and **B.Eng.** 2013, Kyoto University.

APPOINTMENTS

Associate Professor, SANKEN, The University of Osaka, 2022–present. **Assistant Professor**, Yamaguchi University, 2018–2022. **Postdoctoral Associate**, Massachusetts Institute of Technology, 2017. **Visiting researcher**: Imperial College London (2022), Technical University of Denmark (2018).

RESEARCH

Operando vibrational spectroscopy (SEIRAS / ATR-IR) of electrode–electrolyte interfaces, applied to water electrolysis, CO₂ reduction, ammonia electrosynthesis and battery interphases.

70 peer-reviewed articles · 5,200+ citations · h-index 27 (Scopus, October 2026) · 23 patents (6 granted)
36 industrial collaborations · 67 students supervised (9 doctoral, 37 master's, 21 undergraduate)

ISE AND INTERNATIONAL SERVICE

Vice-Chair, ISE Division 3 (2025–present). **Symposium Organizer**, 77th (Sydney, 2026) and 78th (Glasgow, 2027) ISE Annual Meetings. **Invited speaker**, 74th ISE Annual Meeting (Lyon, 2023). **Editor**, *Applied Surface Science*; **Guest Editor**, *Electrochimica Acta*; Active collaborations with 23 groups in 9 countries across Asia, Europe and North America.

SELECTED AWARDS

MEXT Young Scientists' Award, Japan (2026) · Masao Horiba Award (2026) · Sano Award, Electrochemical Society of Japan (2023) · Emerging Leaders, *J. Phys.: Energy* (2022) · Rising Stars in Electrochemistry (2021).