

Candidate of ISE Division 4 Chair

Brief CV

Hiroki Habazaki is a Professor of Division of Applied Chemistry, Vice-Dean of Faculty of Engineering and a Councillor at Hokkaido University in Japan. He received BSc, MSc and DSc degrees from Tohoku University in 1986, 1988 and 1993, respectively. He was employed as a research associate at Institute for Materials Research, Tohoku University in 1998. In this period, his main research topics were chemical properties of amorphous alloys, including corrosion and electrocatalysis of a range of amorphous and nanocrystalline alloy materials. In 2000, he moved to Hokkaido University as an Associate Professor and promoted to full Professor in 2006. He also spent two years since 1993 at UMIST, Manchester, UK as a postdoctoral researcher, where he initiated the study of anodizing of aluminium and its alloys for fundamental understanding of ionic transport in oxide films and interfacial process.

His research is currently focusing on growth of nanostructured oxide films on metals by anodizing, functionality of such nanostructured oxide films, fabrication of nanomaterials and their applications to electrochemical energy conversion. He worked as one of the organizers of several Symposia in ISE Annual Meetings and delivered keynote and invited talks in ISE Annual and Topical Meetings, in addition to other International Symposia related to electrochemical materials science.

Short candidate statement

ISE Division 4 covers a wide range of topics in electrochemical materials science, including electrodeposition, corrosion and surface treatments of practical and novel materials, as well as synthesis, characterization, modelling and applications of electrochemically nanostructured materials. ISE is the important organization in this community to exchange the latest findings, ideas and future prospects. In fact, I have been highly motivated through participation of many conferences and symposia sponsored by the ISE division 4. If elected, I would like to serve this community, listen to what is needed from the active members in this division and respond with action to keep high activity even under the Covid-19 pandemic. A “new normal” style of division activity wishes to be established with the active division members.