

## Koji Amezawa

### Personal Information

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**Age** 54  
**Nationality** Japanese

**Status** Professor  
**Affiliation** Institute of Multidisciplinary Research for  
Advanced Materials, Tohoku University  
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### Education

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**Jul/1998** Ph.D, Graduate School of Engineering, Kyoto University  
Thesis “Irreversible Thermodynamical Studies on Electrochemical Systems”  
Supervisor: Prof. Yasuhiko Ito

**Apr/1993 – Mar/1994** Ph.D course student, Graduate School of Engineering, Kyoto University  
**Apr/1991 – Mar/1993** Master course student, Graduate School of Engineering, Kyoto University  
**Apr/1987 – Mar/1991** Bachelor course student, Graduate School of Engineering, Kyoto University

### Employment

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**Apr/2012 - present** Professor, Institute of Multidisciplinary Research for Advanced Materials,  
Tohoku University

**Apr/2007 – Mar/2012** Associate Professor, Graduate School of Environmental Studies, Tohoku  
University

**Apr/1994 - Mar/2007** Assistant Professor, Graduate School of Human and Environmental Studies,  
Kyoto University

### Visiting Post

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**Apr/2019 – Mar/2021** Visiting Professor, Institute of Advanced Energy, Kyoto University  
**Apr/2017 – May/2017** Visiting Professor, Department of Natural Science, Norwegian University of  
Science and Technology

**Jun/1994 – Dec/1995** Visiting Researcher, Department of Physical Chemistry, Norwegian Institute of  
Technology

## Research Specialities

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Fields :

- Electrochemistry
- Solid State Ionics
- Inorganic Chemistry

Topics :

- Developments of high-performance electrode/electrolyte materials for fuel cells and batteries
- Operando analysis of materials and reactions in fuel cells and batteries
- Developments of novel solid-state ionic/electronic conductors for energy conversion applications
- Mechano-electrochemistry in solid state ionics devices

## Social Activities (Last 5 Years)

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- President, The Solid State Ionics Society of Japan (Dec/2022 – present)
- Secretary, International Conference on Solid State Ionics (Jun/2017 – present)
- Regional Editor, Solid State Ionics (Jun/2017 – present)
- Editorial Advisory Board, Materials Research Society, Energy & Sustainability (Jun/2021 – present)
- Guest Editors, Solid State Ionics, Journal of Electroceramics, Electrochemical Society Transactions, *etc.*
- International Advisory Board, 22nd International Conference on Solid State Ionics, SSI-22, 2019
- International Advisory Board, 23rd International Conference on Solid State Ionics, SSI-23, 2022
- International Advisory Board, 16th Asian Conference on Solid State Ionics, ACSSI-16, 2018
- International Advisory Board, 17th Asian Conference on Solid State Ionics, ACSSI-17, 2022

## Memberships in Society

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- International Society for Solid State Ionics, Secretary (Jun/2017 - present)
- The Electrochemical Society
- The Solid State Ionics Society of Japan, President (Dec/2022 - present)
- The Electrochemical Society of Japan, Board member
- The SOFC Society of Japan
- The Chemical Society of Japan
- The Japanese Society of Synchrotron Radiation Research

## Fundings

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### 3 Selected Projects

- New Energy and Industrial Technology Development Organization (NEDO), Collaborative Industry-Academia-Government R&D Project for Solving Common Challenges Toward Dramatically Expanded Use of Fuel Cells and Related Equipment, “Development of Ultra-High Efficiency Protonic Ceramic Fuel Cell Devices: WP1 Development of Innovative High-Performance Electrodes” (2020-2024)
- Japan Science and Technology Agency (JST), Mirai Program, “Common Platform Technology, Facilities, and Equipment” mission area, “Development of a 3D multiscale and multimodal operando chemical analysis platform” (2021-2024)
- Japan Society for the Promotion of Science (JSPS), Grants-in-Aid for Scientific Research on Innovative Areas, “Science on Interfacial Ion Dynamics for Solid State Ionics Devices; Advanced Analysis (Gp-A02)” (2019-2023)