

Resume (2016.9.10)

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Education

1979.3 The University of Tokyo, Department of Industrial Chemistry, **Ph.D.**

1976.3 The University of Tokyo, Department of Industrial Chemistry, **M.S.**

1974.3 The University of Tokyo, Department of Synthetic Chemistry, **B.S.**

Working Experience

2015.4~ Toyota Physical and Chemical Research Institute

Fellow

Nagoya University

Professor Emeritus

2011.4-2013.3 Nagoya University, Research Center for Materials Backcasting Technology,

Director

2009.4-2011.3 Nagoya University, Research Center for Materials Backcasting Technology,

Deputy Director

2006.4~2015.3 Nagoya University, Department of Applied Chemistry,

Professor

2004.4-2006.3 Nagoya University, Department of Molecular Design and Engineering,

Professor

1992.4-2004.3 Nagoya University, Department of Applied Chemistry,

Professor

1986.9-1992.3 The University of Tokyo, Department of Industrial Chemistry,

Associate Professor

1982.4-1986.8 The University of Tokyo, Department of Industrial Chemistry,

Lecturer

1979.4-1982.3 The University of Tokyo, Department of Industrial Chemistry,

Research Associate

Research Interests

Materials science, Solid state chemistry, Thermoelectric materials, Bio-inspired synthesis of inorganic materials, Nanomaterials, etc.

Achievements

371 SCI Journal papers

106 Review Articles

80 Int. Conf. Proceedings papers

57 Books and Book Chapters

130 (English) and 125 (Japanese) invited talks at academic and technical meetings

50 Patents

Awards

- 2015 Award for Outstanding Service to the Tokai Chemical Industry Association
- 2013 Medal with Purple Ribbon, The Emperor of Japan
- 2013 Thermoelectrics Society of Japan Award
- 2010 The Outstanding Paper Award, the Japan Society of Applied Physics
- 2010 The Best Scientific Paper Award, ICT 2010, The International Thermoelectric Society
- 2008 The Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology, Prize for Science and Technology (Research Category)
- 2006 Academician of the World Academy of Ceramics
- 2006 Komoh Thermal Technology Promotion Award
- 2005 The Chinese Ceramic Society Award
- 2005 Fellow of the American Ceramic Society
- 2003 Science Award, the Japan Society of Inorganic Materials
- 2003 JCerSJ Best Paper Award, the Ceramic Society of Japan
- 2002 Research Achievement Award, the Japan Society of Powder and Powder Metallurgy
- 2000 Science Award, the Ceramic Society of Japan
- 2000 JCerSJ Best Paper Award, the Ceramic Society of Japan
- 1993 Richard M. Fulrath Pacific Award
- 1984 Young Scientist Award, the Ceramic Society of Japan

Professional Activities

- **Professor Emeritus**, Nagoya University
- **Professor Emeritus**, Shaangxi University of Science and Technology, China (2001~2006)
- **Invited Professor**, CNRS-ENSICAEN-CRISMAT Laboratory, France (2010)
- **International Advisor**, Shanghai Institute of Ceramics, CAS (2006~2011)
- **Research Advisor**, National Institute of Materials Science (NIMS), Japan (2001~)
- **Invited Scholar**, Tsinghua University (supported by Beijing City), 2012~2014
- **Associate Member**, St. Petersburg National Research University of ITMO (Info. Tech., Mechanics, Optics) Lab. of Direct Energy Conversion and Nano-engineering of Thermoelectric Structures, Russia (2014~)
- **Opponent for Doctor Dissertation**, Aalto University, Finland (2015)
- International Thermoelectric Society---**Board Member** (1999~2012), **President**(2003-2005)
- Thermoelectrics Society of Japan---**Board Member** (2004~), **Vice-President** (2008~), **President** (2014~)
- The Ceramic Society of Japan---**Board Member**, **Editor-in-Chief of JCerSJ** (2002-2003), **Chairman of Tokai Branch** (2002-2003), **Basic Science Division Chairman** (2006-2007), **Vice-President** (2010-2012)
- Asian Electroceramics Association---**Board Member**, **the first Chairman** (2004-2006)
- The American Ceramic Society---**Fellow** (2005~)

- World Academy of Ceramics---**Academician** (2006~), **Advisory Board Member**(2010~2013)
- Inorganic Materials Society of Japan---**Board Member** (2004~), **Chairman of the Central Japan Region** (2007~2013), **Vice-President** (2011~2013)
- The Chemical Society of Japan---**Board Member** (2007-2009)
- The Japan Society for Powder and Powder Metallurgy---**Board Member** (2002~2014), **Advisor** (2014~)
- The American Chemical Society---Member (~2013)
- The Materials Research Society---Member
- AAAS---Member
- Japan Society of Applied Physics---Member

- Ceramics International (Elsevier)---**Editor-in-Chief** (2007~2013)
- Journal of Advanced Ceramics (Springer)---**Co-Editor** (2011~)
- GREEN (De Gruyter)---**Co-Editor**(2010~)

Social Contributions

- **Selection Committee Member**---Asahi Glass Foundation (2006~2012), Murata Science Promotion Foundation (2006~), General Petroleum Foundation (2006~)
- Japan Society for Promotion of Science---**Reviewer** (2008~2010, 2012~2014)
- Japan Science and Technology Agency---**CREST Project Leader** (2002~2014), A-STEP Project **Reviewer** (2010~), PREST **Advisor** (2001~2007), **Japanese Leader** for JST-MOST Collaboration Program (2010~2013)
- National Institute for Academic Degrees and University Evaluation---Applied Chemistry Division **Reviewer** (2000~), University Achievements **Reviewer** (2009), Board of Evaluation of Research and Education **Reviewer** (2016~2017)
- Chunichi Shinbun (Newspaper)---**Expert Committee Member** for Industrial Technology Award (1997~2013)

International Conferences chaired

- 17th International Conference on Thermoelectrics (ICT'98, Nagoya, 1998) (**Chairman**)
- International Conference on Mass and Charge Transport (Italy, 2000) (**Co-Chairman**)
- 5th International Meeting of Pacific Rim Ceramic Societies(Nagoya, 2003) (**Secretary General**)
- IUMRS-ICA2008 (Nagoya, 2008) (Symposium **Chair**)
- MRS Spring Meeting (San Francisco, 2009, 2011) (Symposium **Co-Chair**)
- CIMTEC Forum on Energy Materials (Italy, 2010) (**Program Chair**)
- ICC-3 Symposium on Thermoelectric Materials (Osaka, 2010) (Symposium **Co-Chair**)
- International Conference on Thermoelectrics (ICT2013, Kobe) (**Special Advisor**)
- Chinese International Conference on High-Performance Ceramics (CICC) series (China, 1989~)(**Co-Chairman**)
- ICC-5 Symposium on Ceramics for energy conversion and storage (Beijing, 2014) (Symposium **Co-Chair**)