Akira Ishibashi, Ph. D

IEEE Senior Member

Nationality
Japanese

CEO, C'sTEC Corporation [a Hokkaido University-certified startup]

CONTACT

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EDUCATION

B.Sc. in physics, The University of Tokyo, 1981

M.Sc. in physics, The University of Tokyo, 1983

Ph.D. in physics, The University of Tokyo, 1990

EXPERIENCE

- 1982–1983, Research Assistant at Lawrence Berkeley National Laboratory, Berkeley, CA, USA
- 1983-2002, Sony Corporation Research Center
  1990-1991, John Bardeen Chair Visiting Faculty, Dept. of Physics, University of Illinois at Urbana-Champaign, IL, USA
  1998, Visiting Professor at Center for Interdisciplinary Research, Tohoku University, Sendai, Japan
- 2003-2023, Professor, Nanostructure Physics Lab, Research Institute for Electronic Science, Hokkaido University, Hokkaido Japan
- 2006-2023, CTO, Hokkaido University-certified startup C'sTEC Corporation, Hokkaido, Japan
- 2024- present, Professor Emeritus, Hokkaido University
- 2024- present, Visiting researcher, Faculty of Medicine, Saga University, Saga, Japan
- 2024- present, Director, Project researcher, Ishibashi Architects and Associates, Saga, Japan
- 2024- present, CEO, Hokkaido University-certified startup C'sTEC Corporation, Tokyo, Japan

AREAS OF RESEARCH

- Closed air-flow clean systems, Clean Unit System Platform (CUSP), Gas Exchange Membrane and Unit (GEM and GEU)
- New Energo-environmental Scheme
- High efficiency solar cells, Concentrator solar cells, Waveguide-coupled solar cells, Asymmetric Waveguides, 2-Dimensional PhotoRecepto-Conversion Scheme (**2DPRCS**)

HONORS & AWARDS

- Hokkaido Invention Association Chairman's Award "Building and the Manufacturing Method", 2021
- OWPT2021 Paper Award, "**2DPRCS**", 2021
- Network Joint Research Center for Materials and Devices, Collaborative Research Award, "Sleep-Quality Analysis based on CUSP", 2020
- Hokkaido Invention Association Governor's Award "High Cleanliness Room System and Building", 2016
- World-First Blue/Green Laser Diode RT CW Operation, Electron. Lett. **29** 1488 & **29** 2194 (1993), US Pat. 5625634

RECENT PUBLICATIONS

- Z. Zhou, et.al., "Closed airflow system, CUSP, for preventing SARS-CoV-2 infection, promoting health care, and achieving Sustainable Development Goals", Jpn. J. Appl. Phys. **63** 017003 (2024)
- A. Ishibashi, et.al., "Lifting Off Spatial Degeneracy of Functions, Where Does It Lead Us for Photovoltaic Device Systems?", *Energies*, **13** 5234-1–5234-16 (2020)
- T. Hsieh, Y. Liu, S. Liang, M. Yasutake and A. Ishibashi, "The Tent-type Clean Unit System Platform for Air Cleaning and Non-contact Sleep Assessment", *Proc. 3rd Int. Conf. on Computational Biology and Bioinformatics*, 47–51 (2019)