**ICHIRO TAKEUCHI**
Professor
Department of Materials Science and Engineering
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**EDUCATION**

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|---|---|---|---|
| **Ph.D.** | Physics | University of Maryland, College Park, MD<br>Advisors: T. Venkatesan and Chris Lobb | August, 1996 |
| **B.S.** | Physics | California Institute of Technology, Pasadena, CA | June, 1987 |

**EMPLOYMENT EXPERIENCE**

**2010 to present**
**Chief Technology Officer**
Maryland Energy and Sensor Technologies, LLC
College Park, MD

**7/2009-7/2013, 2014-present**
**Visiting Professor**
Department of Applied and Industrial Chemistry
Tokyo University of Science, Chiba, Japan

**7/2009 to present**
**Professor**
Department of Materials Science and Engineering
University of Maryland, College Park, MD

**2004 to present**
**Affiliate Professor**
Department of Physics
University of Maryland, College Park, MD

**10-11/2009**
**Visiting Professor**
Research Department on Integrity of Microsystems and High Temperature Materials
Ruhr University Bochum, Germany

**8/2004 to 7/2009**
**Associate Professor**

Department of Materials Science and Engineering, and Center for Superconductivity Research
University of Maryland, College Park, MD

**4/2007 to 8/2007**
**Visiting Associate Professor**
Institute for Solid State Physics
University of Tokyo, Kashiwa, Japan

**6/2004 to 3/2005**
**Visiting Associate Professor**
Applied Ceramics Laboratory
Tokyo Institute of Technology, Yokohama, Japan

**7/1999 to 7/2004**
**Assistant Professor**
Department of Materials Science and Engineering, Small Smart Systems Center, and Center for Superconductivity Research
University of Maryland, College Park, MD

**9/1996-7/1999**
**Postdoctoral Research Fellow**
Materials Sciences Division, Lawrence Berkeley National Laboratory, University of California, Berkeley, CA; Advisors: P. G. Schultz and X.-D. Xiang

**5/1999-7/1999, 11/1999**
**Visiting Scientist**
National Center for Electron Microscopy
Lawrence Berkeley National Laboratory, Berkeley, CA

**8/1991-9/1996**
**Graduate Research Associate**
Center for Superconductivity Research, Department of Physics
University of Maryland, College Park, MD

**5/1996**
**Visiting Scientist**
Device Materials Group, Department of Materials Science
University of Cambridge, England

**9/1987-8/1991**
**Member of the Technical Research Staff**
Microelectronics Research Laboratories and Fundamental Research Laboratories
NEC Corporation, Kawasaki and Tsukuba, Japan

## RESEARCH INTERESTS

Applications of combinatorial synthesis and characterization methodology to electronic, sensor/actuator, and energy materials. Fabrication and characterization of novel multilayer thin-film devices. Variable temperature scanning probe microscopes. Thirty years of experience in various aspects of thin-film deposition and characterization, MEMS device fabrication, and low temperature measurements.

**PUBLICATIONS**

Over 230 peer-reviewed articles. Total number of citations as of April 2019 (Google scholar): 10564; h-factor: 55.

**FELLOWSHIPS, AWARDS, HONORS, AND OTHERS**

Distinguished Scholar-Teacher, University of Maryland (2018)
Senior Faculty Research Achievement Award, School of Engineering, U. Maryland (2018)
Elected Fellow of American Physical Society (2010)
Invention of the Year Award, Physical Sciences Category. Office of Technology Commercialization, University of Maryland (2010)
Fellow by Special Appointment, Japan Science and Technology Agency (2007-2008)
Bruker Excellence in Diffraction Award (for the work performed by graduate students) (twice, 2005,2006)
Guest Researcher, NIST, Gaithersburg, MD (2004-present)
NSF Career Award (2001)
Office of Naval Research, Young Investigator Program Award (2000)
Oak Ridge Associated Universities Ralph E. Powe Junior Faculty Enhancement Award (2000)
General Research Board Semester Research Award, University of Maryland (2000)
Associated Western Universities Postdoctoral Research Fellowship (1996-1999)
National Center for Electron Microscopy Visiting Scientist Fellowship,
Lawrence Berkeley National Laboratory (1999)
Summer Undergraduate Research Fellowship, Caltech (1985 & 1986)