

IEEE JUN-ICHI NISHIZAWA MEDAL
RECIPIENTS

2019 YASUHIKO ARAKAWA
Professor, University of Tokyo,
Institute of Industrial Science,
Tokyo, Japan

“For contributions to the development and commercialization of quantum dot lasers.”

AND

PALLAB BHATTACHARYA
Professor, University of Michigan
and Charles M. Vest
Distinguished University
Professor and James R. Mellor
Professor of Engineering, Ann
Arbor, Michigan, USA

AND

DIETER BIMBERG
Professor, Technical University,
Berlin, Germany

2018 JOE C. CAMPBELL
Professor, University of Virginia,
Department of Electrical and
Computer Engineering,
Charlottesville, Virginia, USA

“For contributions to the development of high-speed, low-noise, long-wavelength avalanche photodiodes.”

2017 CHING W. TANG
Professor, Hong Kong University
of Science and Technology,
Kowloon, Hong Kong;
Professor, University of
Rochester, Rochester, NY, USA

“For their pioneering work on organic devices, leading to organic light-emitting diode displays.”

AND

STEPHEN R. FORREST
Professor, University of Michigan,
Ann Arbor, Michigan, USA

AND

MARK THOMPSON
Professor, University of Southern
California, Los Angeles,
California, USA

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| 2016 | MASAYOSHI ESASHI
Professor, Tohoku University,
Sendai, Miyagi, Japan | "For pioneering contributions to micro-electro-mechanical systems (MEMS), and their uses in automobiles, cellular phones, industrial equipment, and medical devices." |
| 2015 | DIMITRI ANTONIADIS
Professor, Department of
Electrical Engineering and
Computer Science,
Massachusetts Institute of
Technology, Cambridge,
Massachusetts, USA | "For contributions to metal oxide semiconductor field-effect transistor physics, technology, and modeling." |
| 2014 | FRANZ LAERMER
Vice President, Robert Bosch
Corporate Research and
Advanced Development,
Stuttgart, Germany | "For inventing and developing the Bosch deep reactive ion etching process that has impacted the micro-electro-mechanical systems (MEMS) field." |
| AND | ANDREA URBAN
Senior Expert, Robert Bosch
GmbH, Reutlingen, Germany | |
| 2013 | BURN J. LIN
Vice President of Research and
Development and Distinguished
Fellow, TSMC, Ltd., Hsinchu,
Taiwan | "For contributions to lithographic manufacturing, including immersion lithography." |
| 2012 | MARK T. BOHR
Intel Senior Fellow and Director
of Process Architecture and
Integration, Intel Corp.,
Hillsboro, OR, USA | "For sustained leadership in developing innovative transistor technologies for advanced logic products." |
| AND | ROBERT S. CHAU
Intel Senior Fellow and Director
of Transistor Research and
Nanotechnology, Intel Corp.,
Hillsboro, OR, USA | |
| AND | TAHIR GHANI
Intel Fellow and Director of
Transistor Research and
Integration, Intel Corp.,
Hillsboro, OR, USA | |

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- 2011 BERNARD LECHNER
Princeton, NJ, USA "For pioneering contributions to thin-film-transistor (TFT) liquid-crystal displays."
- AND PETER BRODY
Chief Executive Office,
Advantech; Pittsburgh, PA, USA
- AND FANG-CHEN LUO
Chief Technology Officer, Vice
President, AU Optronics Corp.;
Hsinchu, Taiwan
- 2010 RICHARD M. SWANSON
President and Chief Technical
Officer, SunPower Corporation,
San Jose, CA, USA "For the conception and commercialization
of high-efficiency point-contact crystalline-silicon solar cell technology."
- 2009 CHENMING HU
TSMC Distinguished Professor
Univ of California,
Berkeley, CA, USA "For technical contributions to MOS device
reliability, scaling of CMOS and compact
device modeling."
- 2008 WOLFGANG HELFRICH
Professor, Institut fur
Theoretische Physik, Freie
University, Berlin, Germany "For pioneering development of twisted-
nematic liquid crystal technology."
- AND MARTIN SCHADT
MS High-Tech Consulting,
Managing Director, Seltisberg,
Switzerland;
- AND JAMES FERGASON
Ferguson Patent Properties LLC,
Founder and Member, Menlo
Park, CA, USA
- 2007 NICOLAAS FRANS De ROOIJ
Prof. and Director Inst. of
Microtech., University of
Neuchatel, Neuchatel Switzerland "For pioneering contributions to
microsystem technology and effective
transfer into industrial products and
applications."
- 2006 MITSUMASA KOYANGI
Prof., Dept of Bioengineering and
Robotics, Tohoku University,
Sendai, Japan "For pioneering contributions to dynamic
random access memory (DRAM) cell
structures and architecture."
- AND KIYOO ITOH

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Fellow, Hitachi, Ltd., Tokyo,
Japan

AND HIDEO SUNAMI
Prof., Research Center for
Nanodevices and Systems,
Hiroshima University, Hiroshima,
Japan

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| 2005 | JERRY M. WOODALL
C. Baldwin Sawyer Professor of
Electrical Engineering, Yale
University, New Haven, CT, USA | "For pioneering contributions to the liquid-phase epitaxy in the GaAs/AlGaAs systems, including applications to photonic and electronic devices." |
| 2004 | FREDERICK H. DILL
Distinguished Engineer
Hitachi Global Storage
Technologies
San Jose, CA, USA | "For lifetime contributions to microelectronics processing, including lithographic stimulation, semiconductor lasers and magnetic recording." |