

**IEEE JUN-ICHI NISHIZAWA MEDAL
RECIPIENTS**

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|------|--|--|
| 2024 | JOHN E. BOWERS (LFIEEE)—
Distinguished Professor of
Electrical and Computer
Engineering, and Fred Kavli Chair
in Nanotechnology, University of
California, Santa Barbara,
California, USA | "For contributions to photonic integrated
circuit technologies." |
| 2023 | JAMES S. HARRIS (LFIEEE)—
Professor Emeritus, Stanford
University, Stanford University,
Stanford, California, USA | "For contributions to epitaxial growth and
nanofabrication of materials and
heterojunction devices." |
| 2022 | UMESH K. MISHRA (FIEEE)—
Donald W. Whittier Professor in
Electrical Engineering, University
of California, Santa Barbara,
California, USA | "For contributions to the development of
gallium nitride-based electronics." |
| 2021 | JAMES J. COLEMAN (FIEEE)—
Presidential Distinguished
Professor of Photonics, University
of Texas at Arlington, Arlington,
Texas, USA | "For contributions to the development of
strained-layer semiconductor lasers." |
| 2020 | PAUL DANIEL DAPKUS
William M. Keck Distinguished
Professor of Engineering,
Professor of Electrical
Engineering and Physics and
Astronomy, University of
Southern California, Los Angeles,
California, USA | "For the development of metal organic
chemical vapor deposition and quantum
well lasers." |
| 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

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AND

DIETER BIMBERG
Professor, Technical University,
Berlin, Germany

2018 JOE C. CAMPBELL "For contributions to the development of
Professor, University of Virginia, high-speed, low-noise, long-wavelength
Department of Electrical and avalanche photodiodes."
Computer Engineering,
Charlottesville, Virginia, USA

2017 CHING W. TANG "For their pioneering work on organic
Professor, Hong Kong University devices, leading to organic light-emitting
of Science and Technology, diode displays."
Kowloon, Hong Kong;
Professor, University of
Rochester, Rochester, NY, USA

AND

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

AND

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

2016 MASAYOSHI ESASHI "For pioneering contributions to micro-
Professor, Tohoku University, electro-mechanical systems (MEMS), and
Sendai, Miyagi, Japan their uses in automobiles, cellular phones,
industrial equipment, and medical
devices."

2015 DIMITRI ANTONIADIS "For contributions to metal oxide
Professor, Department of semiconductor field-effect transistor
Electrical Engineering and physics, technology, and modeling."
Computer Science,
Massachusetts Institute of
Technology, Cambridge,
Massachusetts, USA

2014 FRANZ LAERMER "For inventing and developing the Bosch
Vice President, Robert Bosch deep reactive ion etching process that has

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Corporate Research and
Advanced Development,
Stuttgart, Germany

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

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.”

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| 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
Fellow, Hitachi, Ltd., Tokyo,
Japan | |
| AND | HIDEO SUNAMI
Prof., Research Center for
Nanodevices and Systems,
Hiroshima University, Hiroshima,
Japan | |
| 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 | "For lifetime contributions to microelectronics processing, including lithographic stimulation, semiconductor |

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Technologies
San Jose, CA, USA

lasers and magnetic recording."