

2nd JSAP Fellow (2008)



Fellow Recipients	Hajime Asahi
Affiliation	Professor, The Institute of Scientific and Industrial Research, Osaka University
Title of the Accomplishment	Study on Molecular Beam Epitaxy and Growth of Novel Semiconductors and Devices

Fellow Recipients	Shigehisa Arai
Affiliation	Professor, Quantum Nanoelectronics Research Center, Tokyo Institute of Technology
Title of the Accomplishment	Investigations of 1.5 μ m Wavelength Semiconductor Lasers for Optical Communications

Fellow Recipients	Koji Ando
Affiliation	Deputy Director, Nanoelectronics Research Institute, National Institute of Advanced Industrial Science and Technology (AIST)
Title of the Accomplishment	Ferromagnetic Semiconductors and Spintronics

Fellow Recipients	Tadao Ishibashi
Affiliation	Research Engineer, Technology Development Center, NTT Electronics Corporation
Title of the Accomplishment	Contribution to the Ultrahigh-Speed Optoelectronic Heterostructure Devices

Fellow Recipients	Sunao Ishihara
Affiliation	Professor, Graduate School of Engineering, The University of Tokyo
Title of the Accomplishment	Research on X-Ray Lithography and Promotion of Nanotechnology Research

Fellow Recipients	Ayahiko Ichimiya
Affiliation	Professor Special Appointment, Faculty of Science, Japan Women's University
Title of the Accomplishment	Development of Dynamical Theory for Reflection High-Energy Electron Diffraction

Fellow Recipients	Shingo Ichimura
Affiliation	Vice-President, National Institute of Advanced Industrial Science and Technology (AIST)
Title of the Accomplishment	Fabrication and Characterization of Nanometer-Scale Thin Film Utilizing Beam Interaction

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Fellow Recipients	Kazuyoshi Itoh
Affiliation	Professor, Graduate School of Engineering, Osaka University
Title of the Accomplishment	Applications of Ultrafast Laser Pulses to Information Processing and Optical Fabrication

Fellow Recipients	Hiromasa Ito
Affiliation	Professor, Graduate School of Engineering, Tohoku University
Title of the Accomplishment	Research on Nonlinear Optics and Terahertz Science

Fellow Recipients	Koichiro Inomata
Affiliation	Fellow, Magnetic Materials Center, National Institute for Materials Science
Title of the Accomplishment	Advanced Research and Development in Spintronics and Metallic Magnetic Materials

Fellow Recipients	Kazuyuki Ueda
Affiliation	Professor, Surface Science Laboratory, Toyota Technological Institute
Title of the Accomplishment	New Development of Hydrogen Microscopy Using Electron-Stimulated Desorption Method

Fellow Recipients	Naoya Uchida
Affiliation	Adviser, AIST Innovations, Japan Industrial Technology Association
Title of the Accomplishment	Development of Optical Fiber Transmission Line and Optical Control Devices and Their Practical Use

Fellow Recipients	Masataka Umeno
Affiliation	Professor, Fukui University of Technology
Title of the Accomplishment	Characterization of Semiconductor Crystals Using Diffraction Methods

Fellow Recipients	Chuhei Oshima
Affiliation	Professor, School of Science and Technology, Waseda University
Title of the Accomplishment	Studies on High Resolution Electron Spectroscopy and Development of High Performance Electron Sources

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Fellow Recipients	Kenji Ohta
Affiliation	Director / Senior Executive Managing Officer CTO, Sharp Corporation
Title of the Accomplishment	Establishment of Optical Disk Technologies and Product Design for Application

Fellow Recipients	Shinji Okazaki
Affiliation	Chief Researcher, Central Research Laboratory, Hitachi, Ltd.
Title of the Accomplishment	Development of Resolution Enhancement Technologies for Optical and Electron Beam Lithography

Fellow Recipients	Tomoji Kawai
Affiliation	Professor, The Institute for Scientific and Industrial Research, Osaka University
Title of the Accomplishment	Nanotechnology for the Creation of Functional Materials

Fellow Recipients	Koichi Kitazawa
Affiliation	President, Japan Science and Technology Agency
Title of the Accomplishment	Leading Studies on Copper Oxide High Temperature Superconductors

Fellow Recipients	Shin'ichiro Kimura
Affiliation	Senior Chief Researcher, Central Research Laboratory, Hitachi, Ltd.
Title of the Accomplishment	Research and Development on Si Microdevices and High Density Memories

Fellow Recipients	Tadamasa Kimura
Affiliation	Professor, Faculty of Electro-Communications, The University of Electro-Communications
Title of the Accomplishment	Development of Materials and Devices for the Integration of Electronics and Optics

Fellow Recipients	Nobuhiro Gemma
Affiliation	Senior Fellow, Toshiba Research and Development Center
Title of the Accomplishment	Research in Nano-Bio Electronics and Business Development of DNA Chip

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Fellow Recipients	Yoji Koike
Affiliation	Professor, Graduate School of Engineering, Tohoku University
Title of the Accomplishment	Study of Physical Properties of High-Temperature Superconductors and Development of New Superconducting Materials

Fellow Recipients	Hideomi Koinuma
Affiliation	Executive Senior Advisor, National Institute for Materials Science
Title of the Accomplishment	Development of New Research Fields of Oxide Electronics and Combinatorial Material Technology

Fellow Recipients	Yasuo Kokubun
Affiliation	Dean/Professor, Graduate School of Engineering, Yokohama National University
Title of the Accomplishment	Study on Integrated Photonic Devices Based on High-Index-Contrast Optical Waveguides

Fellow Recipients	Makoto Konagai
Affiliation	Professor, Graduate School of Science and Technology, Tokyo Institute of Technology
Title of the Accomplishment	Study of High-Efficiency Novel Solar Cells

Fellow Recipients	Fumio Koyama
Affiliation	Professor, Precision & Intelligence Laboratory, Tokyo Institute of Technology
Title of the Accomplishment	Pioneering Work on Semiconductor Optical Devices toward High-Capacity Optical Communications

Fellow Recipients	Yahachi Saito
Affiliation	Professor, School of Engineering, Nagoya University
Title of the Accomplishment	Synthesis of Advanced Nanoscale Materials and Exploration of Their Physical Properties

Fellow Recipients	Seiji Samukawa
Affiliation	Professor, Institute of Fluid Science, Tohoku University
Title of the Accomplishment	Development of Super Low-Damage and Precise Top-Down Etching Technology

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Fellow Recipients	Tadashi Shibata
Affiliation	Professor, School of Engineering, The University of Tokyo
Title of the Accomplishment	Development of Right-Brain Computing VLSI Systems

Fellow Recipients	Toshikazu Shimada
Affiliation	President and CEO, Quantum14 KK
Title of the Accomplishment	Study of Amorphous and Nanosized Semiconductors for Device Applications

Fellow Recipients	Toshihiro Sugii
Affiliation	President, Silicon Technologies Development Laboratories, Fujitsu Laboratories Ltd.
Title of the Accomplishment	Development of State-of-the-Art CMOS Devices and Process, and Its Application to High-Performance LSIs

Fellow Recipients	Wataru Susaki
Affiliation	Professor, Osaka Electro-Communication University
Title of the Accomplishment	Realization of First AlGaAs Laser, Invention of First Single Mode AlGaAs Laser Structure and Its Commercialization

Fellow Recipients	Tohru Suzuki
Affiliation	Formerly, Research Fellow of NEC Optoelectronics Research Laboratory
Title of the Accomplishment	Research and Development of AlGaInP Crystals and Visible Laser-Diode

Fellow Recipients	Toshiaki Suhara
Affiliation	Professor, Graduate School of Engineering, Osaka University
Title of the Accomplishment	Research on Waveguide Nonlinear-Optic Devices

Fellow Recipients	Jun'ichi Sone
Affiliation	Vice President, Central Research Laboratories, NEC Corporation
Title of the Accomplishment	Research on Electronic Properties of Nano-Scale Structures and Their Applications to Superconducting and Semiconducting Devices

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Fellow Recipients	Shinichi Takagi
Affiliation	Professor, School of Engineering, The University of Tokyo
Title of the Accomplishment	Study on Understanding and Enhancement of Carrier Transport Properties in MOS Transistors

Fellow Recipients	Michiharu Tabe
Affiliation	Professor, Research Institute of Electronics, Shizuoka University
Title of the Accomplishment	Research on Silicon Surface Reaction Processes and Single-Electron Devices

Fellow Recipients	Seigo Tarucha
Affiliation	Professor, Graduate School of Engineering, The University of Tokyo
Title of the Accomplishment	Research on Electron State and Transport Phenomena of Low Dimensional Structure Semiconductor

Fellow Recipients	Toshihisa Tsukada
Affiliation	Representative Director, Cube IT Ltd.
Title of the Accomplishment	Invention of Buried-Heterostructure Lasers

Fellow Recipients	Hideki Tsuya
Affiliation	The Ex-Corporate Auditor, Sumitomo Mitsubishi Silicon Co.
Title of the Accomplishment	Development of High Quality Silicon Crystal Technology and Industrialization

Fellow Recipients	Takao Tsuruta
Affiliation	Professor, Atomic Energy Research Institute & Interdisciplinary Graduate School of Science and Engineering, Kinki University
Title of the Accomplishment	Research and Development of Solid State Track Detector for Radiation Measurement

Fellow Recipients	Kiyoshi Toko
Affiliation	Professor, Graduate School of Information Science and Electrical Engineering, Kyushu University
Title of the Accomplishment	Development of Kansei Biomimetic Sensor

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Fellow Recipients	Akira Toriumi
Affiliation	Professor, School of Engineering, The University of Tokyo
Title of the Accomplishment	Research of Device Physics and New Materials Introduction for CMOS Advancement

Fellow Recipients	Hirochika Nakajima
Affiliation	Professor, Faculty of Science and Engineering, Waseda University
Title of the Accomplishment	Highly Efficient Optical Functional Circuits Utilizing Oxide Single Crystals for Practical Use

Fellow Recipients	Masahiro Nakatsuka
Affiliation	Vice President of the Institute for Laser Technology, Professor Emeritus of Osaka University
Title of the Accomplishment	R & D of High-Power Solid-State Lasers

Fellow Recipients	Shuji Nakamura
Affiliation	Professor, Materials Department, University of California Santa Barbara
Title of the Accomplishment	Research and Developments of GaN-Based High Brightness Blue LEDs

Fellow Recipients	Michiharu Nakamura
Affiliation	Fellow, Hitachi, Ltd.
Title of the Accomplishment	Pioneering Work on Distributed Feedback Semiconductor Lasers

Fellow Recipients	Yoshikazu Nakayama
Affiliation	Professor, Graduate School of Engineering, Osaka University
Title of the Accomplishment	Study on the Synthesis and Application of Nanocarbon Materials

Fellow Recipients	Kenji Natori
Affiliation	Professor, Institute of Applied Physics, University of Tsukuba
Title of the Accomplishment	Clarification of Functional Mechanism in Ultra-Small Semiconductor Devices

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Fellow Recipients	Yasushi Nanishi
Affiliation	Professor, Faculty of Science and Engineering, Ritsumeikan University
Title of the Accomplishment	Crystal Growth of Compound Semiconductor and Application to High Frequency Devices

Fellow Recipients	Yujiro Naruse
Affiliation	Senior Fellow, Toshiba Research Consulting Corporation
Title of the Accomplishment	Research on Semiconductor X-Ray Sensor, Quantum Interconnection and Bio-MEMS

Fellow Recipients	Yujiro Naruse
Affiliation	Senior Fellow, Toshiba Research Consulting Corporation
Title of the Accomplishment	Research on Semiconductor X-Ray Sensor, Quantum Interconnection and Bio-MEMS

Fellow Recipients	Masahiro Nunoshita
Affiliation	Professor Emeritus, Designated Professor, Research Center of Advanced Science & Technology, Nara Institute of Science and Technology
Title of the Accomplishment	Research & Development of Photonic Devices and Their Industrialization

Fellow Recipients	Fumio Hasegawa
Affiliation	Professor Emeritus, University of Tsukuba
Title of the Accomplishment	Growth of Compound Semiconductors and Its Application to Devices

Fellow Recipients	Mutsuko Hatano
Affiliation	Chief Researcher, Central Research Laboratory, Hitachi, Ltd.
Title of the Accomplishment	Research and Development on Thin Film Transistors for Mobile Display Applications

Fellow Recipients	Chihiro Hamaguchi
Affiliation	Professor Emeritus of Osaka University
Title of the Accomplishment	Contribution to Study on Modulation Spectroscopy and Magnetophonon Spectroscopy in Semiconductors

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Fellow Recipients	Hideki Hayashi
Affiliation	Fellow, Chief Technologist, Sumitomo Electric Industries, Ltd.
Title of the Accomplishment	Research, Development and Commercialization of Compound Semiconductor Devices

Fellow Recipients	Nobuyasu Hiramatsu
Affiliation	Professor, General Education Center / Department of Applied Physics, Fukuoka University
Title of the Accomplishment	Education and Enlightenment Activities of Science and Technology in Applied Physics

Fellow Recipients	Shizuo Fujita
Affiliation	Professor, Graduate School of Engineering, Kyoto University
Title of the Accomplishment	Advanced Research on Wide Band Gap Optoelectronic Semiconductor Materials

Fellow Recipients	Hideo Hosono
Affiliation	Professor, Frontier Research Center, Tokyo Institute of Technology
Title of the Accomplishment	Exploration and Creation of Electro-Active Functionality in Transparent Oxides

Fellow Recipients	Kazuo Hotate
Affiliation	Dean/Professor, School of Engineering, The University of Tokyo
Title of the Accomplishment	Pioneering Research in Optical Fiber Sensing

Fellow Recipients	Shinji Matsui
Affiliation	Director / Professor, Laboratory of Advanced Science and Technology for Industry, University of Hyogo
Title of the Accomplishment	Nanofabrication by Electron and Ion Beams

Fellow Recipients	Yuichi Matsushima
Affiliation	Vice President, National Institute of Information and Communication Technology (NICT)
Title of the Accomplishment	R&D of High-Quality Optical Devices for Fiber Transmission and Application for Optical Submarine Cable Systems

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Fellow Recipients	Akihisa Matsuda
Affiliation	Research Professor, Graduate School of Engineering Science, Osaka University
Title of the Accomplishment	Elucidation and Control of Growth Process of Amorphous and Microcrystalline Silicon Thin Films

Fellow Recipients	Kazuhiko Matsumoto
Affiliation	Professor, Institute of Scientific and Industrial Research, Osaka University
Title of the Accomplishment	Development of Single Electron Devices

Fellow Recipients	Takashi Mizutani
Affiliation	Professor, Graduate School of Engineering, Nagoya University
Title of the Accomplishment	Research on Electron Devices Based on Nanostructures and Compound Semiconductors

Fellow Recipients	Kenzo Miyazaki
Affiliation	Professor, Institute of Advanced Energy, Kyoto University
Title of the Accomplishment	Research and Development of High-Intensity Lasers and Their Applications to Nonlinear Optics Such as Laser Wavelength Conversion

Fellow Recipients	Masamichi Yamanishi
Affiliation	Technical Adviser, Hamamatsu Photonics KK, Professor Emeritus of Hiroshima University
Title of the Accomplishment	Pioneering Research on Semiconductor Quantum Optics and Optical Device Applications

Fellow Recipients	Kikuo Yamabe
Affiliation	Professor, Graduate School of Pure and Applied Sciences, University of Tsukuba
Title of the Accomplishment	Development of High Reliable Gate Silicon Dioxide Film Technology in Ultra Large Scale Integrated Circuits

Fellow Recipients	Hiroshi Yokoyama
Affiliation	Chief Scientist, Nanotechnology Research Institute, National Institute of Advanced Industrial Science and Technology
Title of the Accomplishment	Contribution to Nanotechnology of Liquid Crystals and Soft Matter

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Fellow Recipients	Akihiko Yoshikawa
Affiliation	Professor, Graduate School of Engineering, Chiba University
Title of the Accomplishment	Study on Epitaxy and Material Control of Wide Bandgap Semiconductors

Fellow Recipients	Sadafumi Yoshida
Affiliation	Professor, Graduate School of Science and Engineering, Saitama University
Title of the Accomplishment	Research on the Crystal Growth and Characterization, and the Applications of Compound Semiconductors

Fellow Recipients	Katsumi Yoshino
Affiliation	Shimane Institute for Industrial Technology / Emeritus Professor of Osaka University
Title of the Accomplishment	Pioneering Study of Organic Electronic Material and Devices