

31st JSAP AWARDS (Year 2009)

JJAP Paper Award

Award Recipients	Hidenori Hiramatsu, Takayoshi Katase, Toshio Kamiya, Masahiro Hirano, and Hideo Hosono
Title of the Paper	Superconductivity in Epitaxial Thin Films of Co-Doped SrFe ₂ As ₂ with Bilayered FeAs Structures and Their Magnetic Anisotropy
Authors	Hidenori Hiramatsu ¹ , Takayoshi Katase ² , Toshio Kamiya ^{1,2} , Masahiro Hirano ^{1,2} , and Hideo Hosono ^{1,2}
Affiliation	1JST, 2Tokyo Institute of Technology
Journal	Appl. Phys. Express Vol. 1, 101702 (2008)

Award Recipients	Shoun Matsunaga, Jun Hayakawa, Shoji Ikeda, Katsuya Miura, Haruhiro Hasegawa, Tetsuo Endoh, Hideo Ohno, and Takahiro Hanyu
Title of the Paper	Fabrication of a Nonvolatile Full Adder Based on Logic-in-Memory Architecture Using Magnetic Tunnel Junctions
Authors	Shoun Matsunaga ¹ , Jun Hayakawa ² , Shoji Ikeda ¹ , Katsuya Miura ^{1,2} , Haruhiro Hasegawa ¹ , Tetsuo Endoh ¹ , Hideo Ohno ¹ , and Takahiro Hanyu ¹
Affiliation	1Tohoku University, 2Hitachi Advanced Research Laboratory
Journal	Appl. Phys. Express Vol. 1, 091301 (2008)

Award Recipients	Hiroki Sugimoto and Michio Tajima
Title of the Paper	Photoluminescence Imaging of Multicrystalline Si Wafers during HF Etching
Authors	Hiroki Sugimoto and Michio Tajima
Affiliation	Japan Aerospace Exploration Agency
Journal	Jpn. J. Appl. Phys. Vol. 46, pp. L339-L341 (2007)

Award Recipients	Xiuguang Jin, Naoto Yamamoto, Yasuhide Nakagawa, Atsushi Mano, Takanori Kato, Masatoshi Tanioku, Toru Ujihara, Yoshikazu Takeda, Shoji Okumi, Masahiro Yamamoto, Tsutomu Nakanishi, Takashi Saka, Hiromichi Horinaka, Toshihiro Kato, Tsuneo Yasue, and Takanori Koshikawa
Title of the Paper	Super-High Brightness and High-Spin-Polarization Photocathode
Authors	Xiuguang Jin ¹ , Naoto Yamamoto ¹ , Yasuhide Nakagawa ¹ , Atsushi Mano ¹ , Takanori Kato ¹ , Masatoshi Tanioku ¹ , Toru Ujihara ¹ , Yoshikazu Takeda ¹ , Shoji Okumi ¹ , Masahiro Yamamoto ¹ , Tsutomu Nakanishi ¹ , Takashi Saka ² , Hiromichi Horinaka ³ , Toshihiro Kato ⁴ , Tsuneo Yasue ⁵ , and Takanori Koshikawa ⁵
Affiliation	1Nagoya University, 2Daido University, 3Osaka Prefecture University, 4Daido Steel Co., Ltd., 5Osaka Electro-Communication University
Journal	Appl. Phys. Express Vol. 1, 045002 (2008)

JJAP Young Scientist Award

Award Recipients	Sadahiro Masuo
Title of the Paper	Photon Antibunching in the Emission from a Single Organic Dye Nanocrystal
Authors	Sadahiro Masuo, Akito Masuhara, Takeaki Akashi, M. Muranushi, Shinjiro Machida, Hitoshi Kasai, H. Nakanishi, Hidetoshi Oikawa, and Akira Itaya
Affiliation	Kyoto Institute of Technology
Journal	Jpn. J. Appl. Phys. Vol. 46, pp. L268-L270 (2007)

Award Recipients	Takuya Matsui
Title of the Paper	Microcrystalline Si _{1-x} Ge _x Solar Cells Exhibiting Enhanced Infrared Response with Reduced Absorber Thickness
Authors	Takuya Matsui, Chia-Wen Chang, Tomoyuki Takada, Masao Isomura, Hiroyuki Fujiwara, and Michio Kondo
Affiliation	AIST
Journal	Appl. Phys. Express Vol. 1, 031501 (2008)

Award Recipients	Kentarou Sawano
Title of the Paper	Introduction of Uniaxial Strain into Si/Ge Heterostructures by Selective Ion Implantation
Authors	Kentarou Sawano, Yusuke Hoshi, Atsunori Yamada, Yoshiyasu Hiraoka, Noritaka Usami, Keisuke Arimoto, Kiyokazu Nakagawa, and Yasuhiro Shiraki
Affiliation	Tokyo City University
Journal	Appl. Phys. Express Vol. 1, 121401 (2008)

Award Recipients	Takamichi Yokoyama
Title of the Paper	Oxygen-Related Degradation Mechanisms for On- and Off-States of Perfluoropentacene Thin-Film Transistors
Authors	Takamichi Yokoyama, Chang Bum Park, Tomonori Nishimura, Koji Kita, and Akira Toriumi
Affiliation	The University of Tokyo
Journal	Jpn. J. Appl. Phys. Vol. 47, pp. 3643-3646 (2008)

Award Recipients	Nobuaki Terakado
Title of the Paper	Does the Charged Defect Exist in Nano-Structured Oxy-Chalcogenide Glass?
Authors	Nobuaki Terakado and Keiji Tanaka
Affiliation	Hokkaido University
Journal	Appl. Phys. Express Vol. 1, 081501 (2008)

Review Paper Award

Award Recipients	Keiichi Edamatsu
Title of the Paper	Entangled Photons: Generation, Observation and Characterization
Authors	Keiichi Edamatsu
Affiliation	Tohoku University
Journal	Jpn. J. Appl. Phys. Vol. 46, pp. 7175-7187 (2007)

Award Recipients	Yoshihisa Fujisaki
Title of the Paper	Review of Nonvolatile Semiconductor Memories
Authors	Yoshihisa Fujisaki
Affiliation	Hitachi Ltd.
Journal	OYO BUTURI Vol. 77, No. 9, pp. 1060-1071 (2008)

Award Recipients	Koki Takanashi
Title of the Paper	Creation and Control of Spin Current in Solids
Authors	Koki Takanashi
Affiliation	Tohoku University
Journal	OYO BUTURI Vol. 77, No. 3, pp. 255-263 (2008)

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