

25th JSAP Awards (Year 2003)

JSAP Award Selection Committee, Chairman, Professor Hiroyuki SAKAKI

The selection committee had solicited application for the candidates for the 25th JSAP awards through our monthly journal "OYO BUTURI" from January to March issues (both self-recommendation and appropriate recommendation). The committee accepted 38 candidate papers for JJAP Awards for the Best Original Paper, 15 for JJAP Awards for the Most Promising Young Scientists, and 22 recommended documents for JSAP Award for the Best Review Paper. Three members were in charge of referee for each candidate paper and based on their report, the committee discussed and decided on the first-stage

candidates. Then all the committee members reread all the selected papers and through the process of discussion and examination, decided the second-stage candidates and report them to the board meeting. After final deliberation at the board meeting, we decided to present awards to the following winners. The award ceremony will be held on August 30 after the council meeting during the 64th Autumn Meeting of the Japan Society of Applied Physics (Fukuoka University). In addition, commemorative speeches of the winners will be held at relevant workshop sites from August 30 to September 1.

Recipients List

1. Award for the Best Original Paper

(1) *Recipients:*

Norihiko Nishizawa (Nagoya University),
Toshio Gotoh (Nagoya University)

Widely Broadened Super Continuum Generation Using Highly Nonlinear Dispersion Shifted Fibers and Femtosecond Fiber Laser

Jpn. J. Appl. Phys. Vol.40 (2001) pp. L365-L367, Part 2, No. 4B, 15 April 2001

(2) *Recipients:*

Shin-ichi Nagahama, Tomoya Yanamoto, Masahiko Sano and Takashi Mukai (Nichia Corporation)

Wavelength Dependence of InGaN Laser Diode Characteristics

Jpn. J. Appl. Phys. Vol.40 (2001) pp. 3075-3081, Part 1, No. 5A, May 2001

(3) *Recipients:*

Masahiro Asada (Tokyo Institute of Technology)

Density-Matrix Modeling of Terahertz Photon-Assisted Tunneling and Optical Gain in Resonant Tunneling Structures

Jpn. J. Appl. Phys. Vol.40 (2001) pp. 5251-5256 Part 1, No. 9A, September 2001

(4) *Recipients:*

Akira Fujiwara, Yasuo Takahashi (NTT Corporation)

Mechanisms of Single-Charge Detection Using Electron-Hole System in Si-Wire Transistors

Jpn. J. Appl. Phys. Vol.41 (2002) pp. 1209-1231 Part 1, No. 3A, March 2002

(5) *Recipients:*

Takeshi Kijima (Research and Development Association for Future Electron Devices),
Hiroshi Ishihara (Tokyo Institute of Technology)

Si-Substituted Ultrathin Ferroelectric Films

Jpn. J. Appl. Phys. Vol.41 (2002) pp. L716-L719, Part 2, No. 6B, 15 June 2002

2. Award for the Most Promising Young Scientist

(1) **Jörg Wiedmann** (Tokyo Institute of Technology)

GalnAsP/InP Distributed Reflector Lasers Consisting of Deeply Etched Vertical Gratings

Jörg Wiedmann, Hyo-Chang Kim, Koji Ebihara, Bo Chen, Masataka Ohta, Shigeo Tamura, Jong-In Shim and Shigehisa Arai

Jpn. J. Appl. Phys. Vol.40 (2001) pp. 6845-6851, Part 1, No. 12, December 2001

(2) **Tsuyoshi Shioda** (Mitsui Chemicals)

Fluorinated Polyimide Waveguide Fabricated Using Replication Process with Antisticking Layer

Jpn. J. Appl. Phys. Vol.41 (2002) pp. 1379-1385, Part 1, No. 3A, March 2002

(3) **Norio Sato** (NTT Corporation)

Advanced Spin Coating Film Transfer and Hot-Pressing Process for Global Planarization with Dielectric-Material-Viscosity Control

Norio Sato, Katsuyuki Machida, Masaki Yano, Kazuhisa Kudou and Hakaru Kyuragi

Jpn. J. Appl. Phys. Vol.41 (2002) pp. 2367-2373, Part 1, No. 4B, April 2002

(4) **Hiroyuki Fujiwara** (National Institute of Advanced Industrial Science and Technology)
Stress-Induced Nucleation of Microcrystalline Silicon from Amorphous Phase

Hiroyuki Fujiwara, Michio Kondo and Akihisa Matsuda

Jpn. J. Appl. Phys. Vol.41 (2002) pp. 2821-2828, Part 1, No. 5A, May 2002

3. Award for the Best Review Paper

(1) *Recipients:*

Takeshi Kamiya (National Institution for Academic Degrees and University Evaluation),
Masahiro Tsuchiya (Tokyo University)

Ultrafast photonics

OYO BUTURI Vol.70 (2001) No.11 pp. 1271-1280 General Report

(2) *Recipients:*

Masataka Hirose (National Institute of Advanced Industrial Science and Technology)

Advanced semiconductor technology for system-on-chip (SOC)

OYO BUTURI Vol. 71 (2002) No.9 pp. 1091-1101 General Report

The awards were intended for the papers published in the monthly journals "OYO BUTURI" and Japanese Journal of Applied Physics (JJAP) in year 2001 and 2002. There are three categories of the Awards:

JJAP Awards for the Best Original Paper: The outstanding original papers whose writers made great contribution to the advancement and improvement of the applied physics

JJAP Awards for the Most Promising Young Scientists: The original papers written by the young scientists (under age 35 as of April 1, 2003) suggesting their originality and potential. (One person in principle)

JSAP Award for the Best Review Paper: General reports, description and Invited Papers that are very useful for all the members of the JSAP.