26th JSAP Awards (Year 2004)

Prof. Michio TAJIMA
Chairman, JSAP Award Selection Committee

The selection committee had solicited application for the candidates for the 26th JSAP awards through our monthly journal "OYO BUTURI" from January to March issues (both self-recommendation and appropriate recommendation). The committee accepted 43 candidate papers for JJAP Awards for the Best Original Paper, 10 for JJAP Awards for the Most Promising Young Scientists, and 19 recommended documents for JSAP Award for the Best Review Paper. Three members were in charge of reference 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 was held on September 1 after the 65th Autumn Meeting of the Japan Society of Applied Physics (Tohoku Gakuin University). In addition, commemorative speeches of the winners were held at the relevant workshop sited from September 1 to September 3.

Recipient List

1. Award for the Best Original Paper

(1) Recipients:
Isaho KAMATA, Hidekazu TSUCHIDA, Tamotsu JIKIMOTO, Kunikazu IZUMI *(Central Research Institute of Electric Power Industry)*
Influence of 4H-SiC Growth Conditions on Micropipe Dissociation
Jpn. J. Appl. Phys. Vol. 41 (2002) pp.L1137-L1139, Part 2, No. 10B, 15 October 2002

(2) Recipients:
Akihiko KANDORI, Daisuke SUUZKI, Koichi YOKOSAWA, Akira TSUKAMOTO, Tsuyoshi MIYASHITA, Keiji TSUKADA, Kazumasa TAKAGI *(Hitachi Corporation)*
A Superconducting Quantum Interference Device Magnetometer with a Room-Temperature Pickup Coil for Measuring Impedance Magnetocardiograms
Jpn. J. Appl. Phys. Vol. 41 (2002) pp. 596-599, Part 1, No. 2A, February 2002

(3) Recipients:
Tsuyoshi TOJYO, Shiro UCHIDA, Takashi MIZUNO, Takeharu ASANO, Motonobu TAKEYA, Tomonori HINO, Satoru KIJIMA, Shu GOTO, Yoshifumi YABUKI, Masao IKEDA *(Sony Shiraishi Semiconductor)*
High-Power AlGaInN Laser Diodes with High Kink Level and Low Relative Intensity Noise
Jpn. J. Appl. Phys. Vol. 41 (2002) pp. 1829-1833, Part 1, No. 3B, March 2002

(4) Recipients:
Tadashi NISHIKAWA, Katsuya OGURI, Satoru SUZUKI, Yoshio WATANABE, Hidetoshi NAKANO *(NTT Corporation)*
Enhanced Water-Window X-Ray Pulse Generation from Femtosecond-Laser-Produced Plasma with a Carbon Nanotube Target
Jpn. J. Appl. Phys. Vol. 42 (2003) pp. L 990-L 992, Part 2, No. 8B, 15 August 2003

(5) Recipients:
Vladimir Seleznev *(Institute of Semiconductor Physics, Acad)*, *Hiroshi YAMAGUCHI* *(NTT Corporation)*, *Yoshiro HIRAYAMA* *(NTT Corporation)*, *Victor Yakovlevich Prinz* *(Institute of Semiconductor Physics, Acad)*
Single-Turn GaAs/InAs Nanotubes Fabricated Using the Supercritical CO_2 Drying Technique
Jpn. J. Appl. Phys. Vol. 42 (2003) pp. L 791- L 794, Part 2, No. 7A, 1 July 2003

(6) Recipients:
Atsushi TAKEUCHI *(Waseda University)*, *Takamasa KURODA* *(Waseda University)*, *Yoshiaki NAKATA* *(Fujitsu Laboratories)*, *Masahiro MURAYAMA* *(Waseda University)*, *Takamitsu Kitamura* *(Waseda University)*, *Naoki YOKOYAMA* *(Fujitsu Laboratories)*
Electron Spin Flip by Antiferromagnetic Coupling Semiconductor Quantum Dots
Jpn. J. Appl. Phys. Vol. 42 (2003) pp. 4278-4281, Part 1, No.7A, July 2003

2. Award for the Most Promising Young Scientist

(1) *Emi Miyata* *(Osaka University)*
Novel Photon-Counting Detector for 0.1-100 keV X-Ray Imaging Possessing High Spatial Resolution
Emi MIYATA and Keisuke TAMURA
Jpn. J. Appl. Phys. Vol. 42 (2003) pp. L 1201- L 1204, Part 2, No. 10A, 1 October, 2003

(2) *Satoshi AIHARA* *(NHK)*
Image Pickup from Zinc Phthalocyanine/Bathocuproine Double-Layer Film Using Pickup Tube
Satoshi AIHARA, Kazunori MIYAKAWA, Yuji OHKAWA, Tomoki MATSUBARA, Tamotsu TAKAHARA, Shiro SUZUKI, Norifumi EGAMI, Nobuo SAITO, Kenkichi TANIOKA, Norihiko KAMATA, Daiyo TERUNUMA
Jpn. J. Appl. Phys. Vol. 42 (2003) pp. L 801-L 803, Part 2, No. 7B, 15 July 2003

(3) *Tomoteru FUKUMURA* *(Tohoku University)*
Magneto-Optical Spectroscopy of Anatase TiO_2 Doped with Co
Tomoteru FUKUMURA, Yasuhiro YAMADA, Kentaro TAMURA, Kiyomi NAKAJIMA, Toyomi AOYAMA, Atsuhi TSUKAZAKI, Masatomo SUMIYA, Shunro FUKE, Yusaburo SEGAWA, Toyohiro CHIKYOW, Tetsuya HASEGAWA, Hideomi KOINUMA, Masashi KAWASAKI
Jpn. J. Appl. Phys. Vol. 42 (2003) pp. L 105- L 107, Part 2, No. 2A, 1 February 2003

(4) *Masahiko ISHIDA* *(NEC Corporation)*
Sub-10-nm-Scale Lithography Using p-chloromethyl-methoxy-calix [4] arene Resist
Masahiko ISHIDA, Jun-ichi FUJITA, Takashi OGURA, Yukinori OCHIAI, Eiji OHSHIMA, Junji MOMODA
Jpn. J. Appl. Phys. Vol. 42 (2003) pp. 3913-3916, Part 1, No. 6B, June 2003

3. Award for the Best Review Paper

(1) Recipients:
Satoshi KAWATA *(Osaka University)*, *Yasushi INOUE* *(Osaka University)*
Near-field and non-linear nano-photonics
OYO BUTURI, Vol. 71 (2002) No. 6 pp. 653-663 General Report

(2) Recipients:
Takeshi KOBAYASHI *(Osaka University)*, *Masayoshi TONOUCHI* *(Osaka University)*
Present Status and Trends of Superconductor Electronics
OYO BUTURI, Vol. 71 (2002) No.1 pp. 6-16, General Report

(3) Recipients:
Yasuo KOKUBUN *(Yokohama National University)*
Photonic Wavelength Router using Microring Resonator
OYO BUTURI, Vol. 72 (2003) No. 11 pp. 1364-1373, General Report