

27th JSAP Awards (Year 2005)

Prof. Michio Tajima

Chairman, JSAP Award Selection Committee

The selection committee had solicited application for the candidates for the 27th 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, 11 for JJAP Awards for the Most Promising Young Scientist, and 10 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 awards ceremony was held on September 7 after the 66th Autumn Meeting of the Japan Society of Applied Physics (Tokushima University). In addition, commemorative speeches of the winners were held at the relevant workshop sited from September 7 to September 11.

Recipient List

1. Award for the Best Original Paper

(1) Recipients:

Takao MURAKOSHI (Tokimec),

Yasuo ENDO (Tokimec),

Keisuke FUKATSU (Tokimec),

Sigeru NAKAMURA (Tokimec),

Masayoshi ESASHI (Tohoku Univ.)

Electrostatically Levitated Ring-Shaped

Rotational-Gyro/Accelerometer

Jpn. J. Appl. Phys. Vol. 42 (2003) pp. 2468-2472,
Part 1, No. 4B

(2) Recipients:

Takao NAKAMURA, Shinsuke FUJIWARA,

Hiroki MORI, Koji KATAYAMA (Sumitomo
Electric Industries)

**Novel Cladding Structure for ZnSe-based White
Light Emitting Diodes with Longer Lifetimes of
over 10,000 h**

Jpn. J. Appl. Phys. Vol. 43 (2004) pp. 1287-1292,
Part 2, No. 4A

(3) Recipients:

Shinji YUASA, Akio FUKUSHIMA,

Taro NAGAHAMA, Koji ANDO,

Yoshishige SUZUKI

(NanoElectronics Research Institute, AIST)

**High Tunnel Magnetoresistance at Room
Temperature in Fully Epitaxial Fe/MgO/Fe
Tunnel Junctions due to Coherent**

Spin-Polarized Tunneling

Jpn. J. Appl. Phys. Vol. 43 (2004) pp. L588-L590,
Part 2, No. 4B

(4) Recipients:

Wenhong SUN, Vinod ADIVARAHAN,

Maxim SHATALOV, Youngbae LEE,

Shuai WU, Jinwei YANG, Jianping ZHANG,

M. Asif KHAN (Univ. of South Carolina)

**Continuous Wave Milliwatt Power AlGaIn Light
Emitting Diodes at 280 nm**

Jpn. J. Appl. Phys. Vol. 43 (2004) pp. L1419-L1421,
Part 2, No. 11A

(5) Recipients:

Masami ANDO (KEK),

Hiroshi SUGIYAMA (KEK),

Toshiyuki KUNISADA (Okayama Univ.),

Daisuke SHIMAO (Graduate Univ. for
Advanced Studies),

Ken TAKEDA (Okayama Univ.),

Hiroyuki HASHIZUME (Okayama Univ.),

Hajime INOUE (Okayama Univ.)

**Construction of X-ray Dark-Field Imaging
with a View Size of 80 mm Square and First
Visualization of Human Articular Cartilage of**

Femoral Head under a Nearly Clinical Condition

Jpn. J. Appl. Phys. Vol. 43 (2004) pp. L1175-L1177,
Part 2, No. 9A/B

2. Award for the Most Promising Young Scientist

(1) **Hiromasa SHIMIZU** (Univ. of Tokyo)

**First Demonstration of TE Mode Nonreciprocal
Propagation in an InGaAsP/InP Active
Waveguide for an Integratable Optical Isolator**

Hiromasa SHIMIZU and Yoshiaki NAKANO

Jpn. J. Appl. Phys. Vol. 43 (2004) pp. L1561-L1563,
Part 2, No. 12A

(2) **Yuichi OSHIMA** (Hitachi Cable)

**Preparation of Freestanding GaN Wafers
by Hydride Vapor Phase Epitaxy with
Void-Assisted Separation**

Yuichi OSHIMA, Takeshi ERI, Masatomo SHIBATA,

Haruo SUNAKAWA, Kenji KOBAYASHI, Toshinari

ICHIHASHI and Akira USUI

Jpn. J. Appl. Phys. Vol. 42 (2003) pp. L1-L3, Part 2,
No. 1A/B

(3) **Masumi SAITOH** (Univ. of Tokyo)

**Room-Temperature Observation of
Negative Differential Conductance Due
to Large Quantum Level Spacing in Silicon
Single-Electron Transistor**

Masumi SAITOH and Toshiro HIRAMOTO

Jpn. J. Appl. Phys. Vol. 43 (2004) pp. L210-L213,
Part 2, No. 2A

(4) **Masataka HIGASHIWAKI** (NICT)
**InAlN/GaN Heterostructure Field-Effect
Transistors Grown by Plasma-Assisted
Molecular-Beam Epitaxy**

Masataka HIGASHIWAKI and Toshiaki MATSUI

Jpn. J. Appl. Phys. Vol. 43 (2004) pp. L768-L770,
Part 2, No. 6B

3. Award for the Best Review Paper

(1) Recipients:

Yasushi NANISHI (Ritsumeikan Univ.),

Tsutomu ARAKI (Ritsumeikan Univ.),

Takao MIYAJIMA (SONY)

**InN and InGaIn crystal growth and structural
and property characterization**

OYO BUTURI, Vol. 72 (2003) No. 5, pp. 565-571,
Tutorials

(2) Recipient:

Yoshihisa YAMAMOTO (Stanford Univ.)

**Single photons for quantum information
systems**

OYO BUTURI, Vol. 72 (2003) No. 2, pp. 146-156,
Comprehensive Research Report

(3) Recipient:

Yuji AWANO (Fujitsu)

**Electron device applications of carbon
nanotubes**

OYO BUTURI, Vol. 73 (2004) No. 9, pp. 1207-1211,
Our Research