

## JAPANESE JOURNAL OF APPLIED PHYSICS

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- 030001 **Radiation Chemistry in Chemically Amplified Resists** (19 pages)  
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### Rapid Communications

- 030201 **Improvement in Ferroelectric Fatigue Endurance of Poly(methyl methacrylate)-Blended Poly(vinylidene fluoride-trifluoroethylene)** (3 pages)  
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- 030202 **LiF/Al Base Electrodes in Vertical Metal-Base Organic Transistors for Heat-Treatment-Free Process** (3 pages)  
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- 030203 **Low-Voltage Pentacene Field-Effect Transistors Fabricated on High-Dielectric-Constant Strontium Titanate Insulator** (3 pages)  
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**Errata**

- 039201 **Erratum: "A Reliable Nonvolatile Memory Using Alloy Nanodot Layer with Extremely High Density"** [48 (2009) 106505] (1 page)  
Yun Heub Song, Ji Cheol Bea, Kang Wook Lee, Gae-Hun Lee, Tetsu Tanaka, Mitsumasa Koyanagi



Fig. 5. SEM image showing image of a prepared antenna.

In order to Fig. 5, the Au-Cr layer was placed on a substrate and then the coating metal was not deposited with a conventional method. The back surface of the layer was polished up to 100-150 nm with the groove width. The tilt angle was controlled to be 10-15°. The polishing time was approximately 30s. Then, the wafer was washed and the layer was separated from the site. The layer was mounted on the carrier with the polished surface facing up. The scanning electron microscope (SEM) had a detector stage oriented after the tilt polish procedure shown in Fig. 4. Dispersed surface and a substructure with remaining particles of the bottom substrate were obtained. Then, we carried out wire bonding to check the current to the laser. The FE image was magnified on a scale of  $\times 25$  and detailed using an optical microscope. The FE image of an InP-based laser is shown in Fig. 5. Subsequently, the FE image was changed. Three bright

spots were observed. As a result, a substructure with a relatively wide groove width of 100-150 nm was obtained. Although the groove width was a couple of microns, the groove width was larger than 100 nm. This shows the advantage of the proposed structure over the FE polishing. We used InP-based lasers in this study. However, the polishing technique is expected to be a useful method that can be applied to other materials, such as

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