

# Recent Development of Microdisk Lasers and Waveguides

Toshihiko Baba

Yokohama National University

*Division of Electrical and Computer Engineering*

*79-5 Tokiwadai, Hodogayaku, Yokohama, 240-8501 Japan*

*Phone/Fax +81-45-339-4258, E-Mail baba@dnj.ynu.ac.jp*

**Abstract** — Recent progress of microdisk lasers and related components are summarized. Microdisk lasers achieve the record low threshold and large spontaneous emission factor by a very simple cavity. The behavior of lasing modes can be investigated using the near field probing technology. The microdisk waveguide is demonstrated with low propagation loss.