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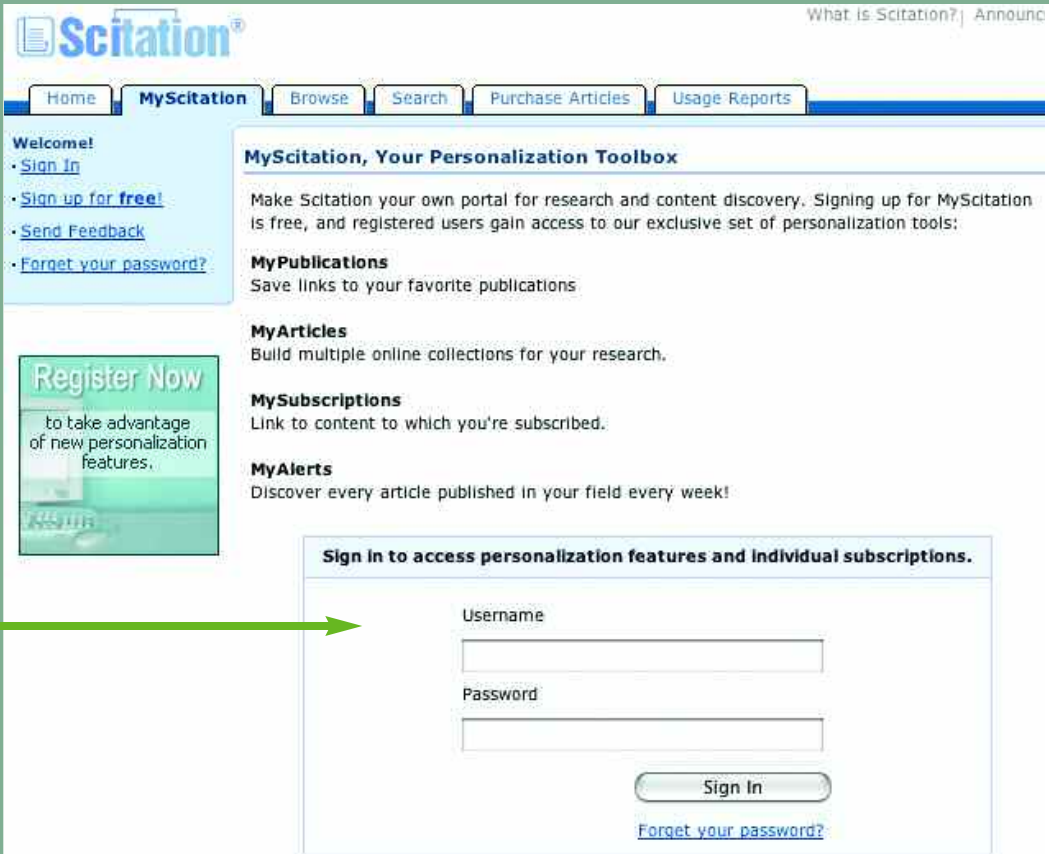
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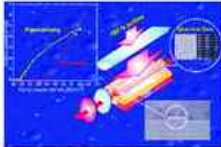


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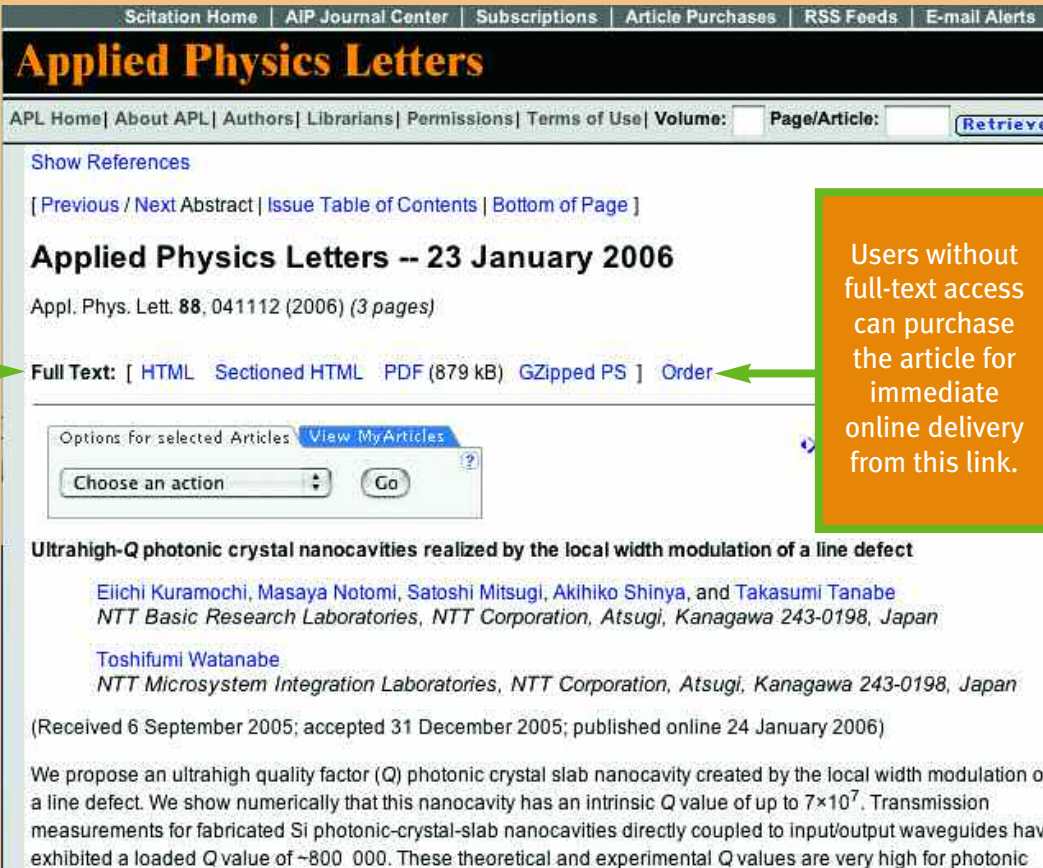
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*NTT Basic Research Laboratories, NTT Corporation, Atsugi, Kanagawa 243-0198, Japan*

[Toshifumi Watanabe](#)  
*NTT Microsystem Integration Laboratories, NTT Corporation, Atsugi, Kanagawa 243-0198, Japan*

(Received 6 September 2005; accepted 31 December 2005; published online 24 January 2006)

We propose an ultrahigh quality factor ( $Q$ ) photonic crystal slab nanocavity created by the local width modulation of a line defect. We show numerically that this nanocavity has an intrinsic  $Q$  value of up to  $7 \times 10^7$ . Transmission measurements for fabricated Si photonic-crystal-slab nanocavities directly coupled to input/output waveguides have exhibited a loaded  $Q$  value of  $\sim 800\,000$ . These theoretical and experimental  $Q$  values are very high for photonic

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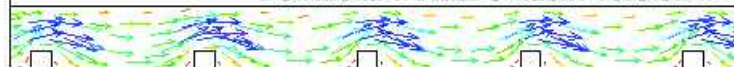
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