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The Rev	iew of La	iser	Engi	neerin	9
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Author:	ADV	ANCED	Volume I	Page	
Keyword:	Se	arch			Go
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<u>TOP</u> > <u>Available Issues</u> > <u>Table of Contents</u> > Abstract

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Deterministic Single-Photon Generation by Cavity QED

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Abstract: Deterministic generation of single photons is an essential ingredient for quantum information experiments. Controlled emission of single photons into a cavity mode with high efficiency is proposed using a coupled system of an atom and a cavity. This paper reports theoretical discussions on single-photon generation by cavity quantum electrodynamics (Cavity QED) as well as recent progress in experiments with atoms and ions.

Key Words: <u>Quantum information</u>, <u>Single photon</u>, <u>Cavity QED</u>, <u>Adiabatic passage</u>, <u>Quantum network</u>

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