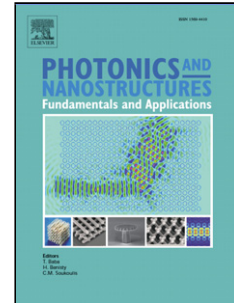


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Title: New generation of one-dimensional photonic crystal cavities as robust high-efficient frequency converter

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- An effective method is proposed to design finite one-dimensional photonic crystals cavities (PhCCs) as robust high-efficient frequency converter.
- The conversion efficiency is calculated as a function of the arrangement and thicknesses of the linear and nonlinear layers.
- The conversion efficiencies of these designed PhCCs are more than 5 orders of magnitude higher than the perfect ones.

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