

Fabrification of Patterned Colloidal Crystals and their Inverse Structure by  
using Softlithography

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Photonic crystal is the most efficient material that can manipulate the 'photons'. And lithographic process is conventional technique to make photonic crystal devices. For example, waveguide, cavities and filters can be produced by lithographic process. In spite of that lithographic process still has some problems, now self assembled fabrication of photonic crystals is proposed. "Fabrication of patterned inverse opals" is one of alternatives that can realize self assembled photonic crystals which have designed orientation and structure.