

Abstract Submitted
for the NEF17 Meeting of
The American Physical Society

Femtosecond micromachining of optical elements JIN-TAE KIM, Chosun Univ., HUN KOOK CHOI, IK BU SOHN, GIST — and microlens array (MLA) fabricated directly using a femtosecond laser have been done. Lithography processing with a femtosecond laser without a phase mask has been applied to fabricate a FZP on silica surface and optical characteristics of the FZP are compared to those of FZP on the silica surface fabricated conventional femtosecond technology using laser ablation processes. Diffraction gratings with higher diffraction efficiency due to CO₂ laser surface treatment processing have been fabricated on the surface of silica surface using a femtosecond laser. MLA on silica surface has been fabricated using a femtosecond and CO₂ lasers and optical characterizations have been compared with a commercial MLA.

Jin-Tae Kim
Chosun Univ.

Date submitted: 11 Sep 2017

Electronic form version 1.4