

## **DESIGN AND PREPARATION OF POLYMER-BASED MICROSPECTROMETER USING LASER LITHOGRAPHY**

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In this paper, we present design and preparation of polymer components for microspectrometer fabrication on a chip. The graphical program was used to design novel components in 3D arrangement. In experimental we used two-photon polymerization for direct laser writing of designed structures in IP-Dip photoresist material. Shape and morphological properties of prepared devices were investigated by scanning electron microscope (SEM). Finally, optical properties were examined by diffraction measurements.

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