"OPTICAL INTERFERENCE FILTER BASED ON POROUS SILICON"

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TÓM TẮT:

We present studies and fabrication of optical interference filter based on porous silicon. Optical properties of those filter are studied in both experimentation and simulation. The porous silicon multilayer is fabricated by and electrochemical etching of a silicon wafer with timely repeat stepof applied current density. The obtained results show that the elaborated porous silicon multilayer has the wavelength- selective property in a controllable range of 1400-3000nm and reflectivity of about 90%.