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标题: Obtaining terahertz-range metamaterials by laser engraving

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摘要: This paper discusses the results of forming lattices of resonance and polarizing planar elements-metamaterials that serve the function of band-pass filters and polarizers of the terahertz range of wavelengths, made by the direct laser engraving of a metallized polymeric film. The excitation of a surface plasmon in a perforated metallic layer is investigated. Methods of calculating such structures are considered, the results of their experimental formation are presented, and the results of calculation and experiment are compared. (C) 2012 Optical Society of America.

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