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Title:Cross-shaped terahertz metal mesh filters: historical review and results

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Abstract:Terahertz frequencies experiments has motivated the development of new sources, detectors and optical components. Here we will present a review of THz bandpass filters ranging from 0.4 to 10 THz. We also demonstrate our fabrication process, simulations and experimental results.

Number of references:27

Inspec controlled terms:band-pass filters - microwave photonics - optical fabrication - optical filters - reviews - terahertz wave devices

Uncontrolled terms:cross-shaped terahertz metal mesh filters - historical review - THz bandpass filters - frequency 0.4 THz to 10 THz

Inspec classification codes:A4280C Spectral and other filters - A0130R Reviews and tutorial papers; resource letters - A4285D Optical fabrication, surface grinding - B4190F Optical coatings and filters - B1350P Microwave photonics

Numerical data indexing:frequency 4.0E+11 1.0E+13 Hz

Treatment:General or Review (GEN); Theoretical or Mathematical (THR); Experimental (EXP)

Discipline:Physics (A); Electrical/Electronic engineering (B)

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