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Abstract: A simple means to obtain the performance of dual-band terahertz metamaterial absorber was demonstrated with numerical approaches in this paper. The dual-band absorbance of a single-layer nearly perfect absorber has been realized by employing the two conventional FSS single frequency resonant elements with different geometry shapes in single periodic cell, which can provide two tunable resonant frequencies independently for terahertz application.

Keywords: Terahertz, Metamaterial absorber, Dual band, Frequency selective surface.