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Title:Realization of variable three-dimensional terahertz metamaterial tubes for passive resonance tunability

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Abstract:A three-dimensional metamaterial tube is fabricated by rolling up 2D metamaterials on flexible PEN substrate. This novel 3D design of metamaterials can be used to effectively tune the resonance frequency by varying its diameter. Meanwhile, it can also be applied in material identification with a solid-core metamaterials tube. Copyright © 2012 WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim.

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Uncontrolled terms:3D design - Material identification - Resonance frequencies - Rolling up - sensing - Tera Hertz - Tunabilities

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