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Accession number:20113514282752

Title:Plasmonic complementary fractal photoconductive emitter

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Source title:2011 Conference on Lasers and Electro-Optics: Laser Science to Photonic Applications, CLEO 2011

Abbreviated source title:CLEO: - Laser Sci. Photonic Appl., CLEO

Monograph title:2011 Conference on Lasers and Electro-Optics: Laser Science to Photonic Applications, CLEO 2011

Issue date:2011

Publication year:2011

Article number:5950282

Language:English

ISBN-13:9781557529107

Document type:Conference article (CA)

Conference name:2011 Conference on Lasers and Electro-Optics, CLEO 2011

Conference date:May 1, 2011 - May 6, 2011

Conference location:Baltimore, MD, United states

Conference code:86146

Publisher:IEEE Computer Society, 445 Hoes Lane - P.O.Box 1331, Piscataway, NJ 08855-1331, United States

Abstract:A new class of photoconductive THz emitters based on a complementary Sierpinski fractal is presented. The self-similarity of plasmonic current present on the antenna surface results in superior performance compared to conventional bow-tie emitters. © 2011 OSA.