

SERS SENSORS

Abstract

5 The present disclosure generally relates to a surface-enhanced Raman spectroscopy (SERS) sensor (100) and a method (200) of manufacturing the SERS sensor (100). The SERS sensor (100) comprises a flexible substrate (102) and 3D nanomaterials (104) deposited on the flexible substrate (102) by a printing process, the 3D nanomaterials (104) comprising anisotropic nanostructures (106) formed of a
10 metallic material, wherein each anisotropic nanostructure (106) comprises a plurality of pointed end portions (108) extending from a central core portion (110).

Figure 1

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