ISTITUTO ITALIANO
DI TECNOLOGIA

TITLE

Substrate regenerative process for SERS detection without masks

INVENTORS

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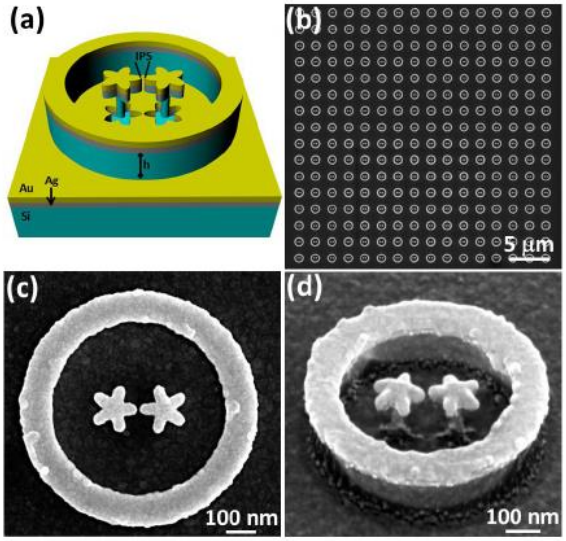
DESCRIPTION

The present invention arises in the field of devices comprising metallic nanostructures functionalized with organic analytes or biomolecules It can be used in spectroscopy as sensors.
In particular, the invention relates to a process which allows the reuse of these devices using a maskless approach based on adequate structuring the three-dimensional (3D) with undercut of the substrate departure. This approach allows a complete and absolute removal of the analytes.



APPLICATIONS

Sensor, spectroscopy, analytes removal

KEYWORDS

Metallic, nanostructures, spectroscopy, maskless, 3D, sensor

BIBLIOGRAPHIC DATA

Procedimento Di Rigenerazione Di Substrati Per Rilevazione SERS Senza Utilizzo Di Maschere

Application Number	IT RM2014A000320
Priority Date	June 18, 2014
Applicants	Fondazione Istituto Italiano di Tecnologia

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