

## Author's Accepted Manuscript

Au Nanoparticles Functionalized 3D-MoS<sub>2</sub>  
Nanoflower: An Efficient SERS Matrix for  
Biomolecule Sensing

Shib Shankar Singha, Suchanda Mondal, Tara  
Shankar Bhattacharya, Laboni Das, Kamalika Sen,  
Biswarup Satpati, Kaustuv Das, Achintya Singha



PII: S0956-5663(18)30571-2  
DOI: <https://doi.org/10.1016/j.bios.2018.07.061>  
Reference: BIOS10650

To appear in: *Biosensors and Bioelectronic*

Received date: 11 May 2018  
Revised date: 13 July 2018  
Accepted date: 28 July 2018

Cite this article as: Shib Shankar Singha, Suchanda Mondal, Tara Shankar Bhattacharya, Laboni Das, Kamalika Sen, Biswarup Satpati, Kaustuv Das and Achintya Singha, Au Nanoparticles Functionalized 3D-MoS<sub>2</sub> Nanoflower: An Efficient SERS Matrix for Biomolecule Sensing, *Biosensors and Bioelectronic*, <https://doi.org/10.1016/j.bios.2018.07.061>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# **Au Nanoparticles Functionalized 3D-MoS<sub>2</sub> Nanoflower: An Efficient SERS Matrix for Biomolecule Sensing**

Shib Shankar Singha<sup>a,b</sup>, Suchanda Mondal<sup>c</sup>, Tara Shankar Bhattacharya<sup>a</sup>, Laboni Das<sup>d</sup>,  
Kamalika Sen<sup>d</sup>, Biswarup Satpati<sup>c</sup>, Kaustuv Das<sup>e</sup>, Achintya Singha<sup>a\*</sup>

<sup>a</sup>Department of Physics, Bose Institute, 93/1, Acharya Prafulla Chandra Road, Kolkata 700009, India

<sup>b</sup> Department of Physics, Brahmananda Keshab Chandra College, 111/2 B. T. Road, Bonhooghly, Kolkata-700 108, India

<sup>c</sup>Saha Institute of Nuclear Physics, 1/AF Bidhannagar, Kolkata 700 064, India

<sup>d</sup>Department of Chemistry, University of Calcutta, 92, APC Road, Kolkata 700 009, India

<sup>e</sup>Department of Physics, Jadavpur University, Kolkata-700032, India

\*Author to whom correspondence should be addressed. Electronic mail: achintya@jcbose.ac.in

Phone: + 91 33 23031177, Fax: + 91 33 23506790

Download English Version:

<https://daneshyari.com/en/article/7228866>

Download Persian Version:

<https://daneshyari.com/article/7228866>

[Daneshyari.com](https://daneshyari.com)