

Accepted Manuscript

Nanomaterials for the sensing of narcotics: challenges and opportunities

Vanish Kumar, Pawan Kumar, Anastasia Pournara, Kowsalya Vellingiri, Ki-Hyun Kim

PII: S0165-9936(18)30221-8

DOI: [10.1016/j.trac.2018.07.003](https://doi.org/10.1016/j.trac.2018.07.003)

Reference: TRAC 15186

To appear in: *Trends in Analytical Chemistry*

Received Date: 17 May 2018

Revised Date: 27 June 2018

Accepted Date: 2 July 2018

Please cite this article as: V. Kumar, P. Kumar, A. Pournara, K. Vellingiri, K.-H. Kim, Nanomaterials for the sensing of narcotics: challenges and opportunities, *Trends in Analytical Chemistry* (2018), doi: 10.1016/j.trac.2018.07.003.

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 proof before it is published in its final 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.



Nanomaterials for the sensing of narcotics: challenges and opportunities

Vanish Kumar^{a1}, Pawan Kumar^{b1}, Anastasia Pournara^c, Kowsalya Vellingiri^d,

Ki-Hyun Kim^{e*}

^aNational Agri-Food Biotechnology Institute (NABI), S.A.S. Nagar, Punjab, 140306, India

^bDepartment of Nano Science and Materials, Central University of Jammu, Jammu, J & K - 180011, India

^cDepartment of Chemistry, University of Ioannina, Ioannina 45110, Greece

^dEnvironmental and Water Resources Engineering Division, Department of Civil Engineering, IIT Madras, Chennai 600 036, India,

^{e*}Department of Civil and Environmental Engineering, Hanyang University, Seoul 04763, Korea

* Corresponding author. Tel.: +82 2 2220 2325; Fax: +82 2 2220 1945

Email: kkim61@hanyang.ac.kr

¹These authors are considered as co-first authors because they contributed equally to this work.

1

2

3

Download English Version:

<https://daneshyari.com/en/article/7687362>

Download Persian Version:

<https://daneshyari.com/article/7687362>

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