

Electronic Noses Sensors For The Detection Of Explosives Nato Science Series Ii

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Pages i-xvii. PDF. Review of Conventional Electronic Noses and Their Possible Application to the Detection of Explosives. Julian William Gardner. Pages 1-28. Polymer Electronics for Explosives Detection. Timothy M. Swager. Pages 29-37. Luminescent Inorganic Polymer Sensors for Vapour Phase and Aqueous Detection of TNT.

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11/7/2015 · New York: Kluwer Academic Publishers. – 2004. – 326 p. (NATO Science Series II: Mathematics, Physics and Chemistry – Vol. 159) This book examines both the potential application of electronic nose technology, and the current state of development of chemical sensors for the detection of vapours from explosives, such as those used in landmines.

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This book examines both the potential application of electronic nose technology, and the current state of development of chemical sensors for the detection of vapours from explosives, such as those used in landmines. The two fields have developed, somewhat in parallel, over the past decade and so one of the purposes of this workshop, on which the book is based, was to bring together scientists ...

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28/1/2013 · Electronic nose devices are usually composed of 1) a chemical sensing system comprising an array of sensors with each sensor containing nanostructures of carbon nanotube, nanowires, etc. for high-sensitivity detection of a particular target vapour or molecular adsorption, 2) a sampling system and 3) a pattern recognition system, such as an artificial neural network.

In: NATO Advanced Research Workshop on Electronic Noses and Sensors for the Detection of Explosives, Warwick, ENGLAND, SEP 30-OCT 03, 2003. Published in: ELECTRONIC NOSES & SENSORS FOR THE DETECTION OF EXPLOSIVES, 159 pp. 1-28. ISBN 1-4020-2317-0. Research output not available from this repository, contact author. Request Changes to record.

13/4/2011 · In NATO advanced research workshop on electronic noses and sensors for the detection of explosives, NATO Science Series, II (Vol. 159, pp. 279–288). 66. Pumera, M. (2006).

9/1/2018 · We propose a technologically feasible one-dimensional double barrier resonant tunneling diode (RTD) as electronic nose, inspired by the vibration theory of biological olfaction. The working ...

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1/1/2012 · Electronic-nose technologies developed to detect hazardous inorganic and volatile organic compounds in the environment Hazardous chemical pollutants E-nose type 1 Sensors 2 Data processing method 3 References Inorganic chemicals As, Cd, Pb, Zn (in water) BH-114 14 CP PCA [34] CO, NO₂, NO_x Exp. model 5 MOS MVC [9] H₂S, NO₂, SO₂ Exp. Nepo 6 MOS DFA [35] Hg (gas), heavy metals (in ...

The paper presents analyses of current research projects connected with explosive material sensors. Sensors are described assigned to X and ? radiation, optical radiation sensors, as well as detectors applied in gas chromatography, electrochemical and chemical sensors.

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An electronic nose sensor, as its name indicates, is a device used to detect odors and flavors. The aim of this electronic sensor or e-sensor is to imitate human nose sensing capability. With the addition of nano-enhanced sensors and improvements in pattern recognition systems, such as neural network technologies, e-sensors have undergone important shifts from a technical and commercial ...

Swager, T. M. "Polymer Electronics for Explosives Detection" pages 29-38 in Electronic Noses and Sensors for the Detection of Explosives, Gardner J.; Yinon, J., (Eds.) NATO Science Series II: Mathematics, Physics and Chemistry, 2004

1/6/1999 · 2. Chemical Sensing
The use of ceramic oxides in gas detection devices involves different issues. The most important characteristics in gas detection sensors are sensitivity, selectivity and stability of the sensing devices. Sensitivity is the capacity that a device has of detecting the presence of a certain type of gas, in different concentrations.

The paper presents analyses of current research projects connected with explosive material sensors. Sensors are described assigned to X and ? radiation, optical radiation sensors, as well as detectors applied in gas chromatography, electrochemical and chemical sensors.

This report describe the characteristics of explosives, bombs, and their components that are or might be used to provide a signature for exploitation in detection technology; considers scientific techniques for exploiting these characteristics to detect explosives and explosive devices; discusses the potential for integrating such techniques into detection systems that would have sufficient ...

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