

Dokumenttyp:	Konferenzbeitrag
Autor(en) des Beitrags:	Abdelhalim, A.; Falco, A.; Loghin, F.; Lugli, P.; Salmerón, J.F.; Rivadeneyra, A.
Titel des Beitrags:	Flexible NH ₃ sensor based on spray deposition and inkjet printing
Abstract:	<p>Abstract: This paper presents a fully printed gas sensor on a flexible substrate. The sensitive film is based on carbon nanotubes (CNT) deposited by spray by an air atomizing nozzle, whereas the electrodes were defined by inkjet printing of silver nanoparticles. The results obtained for NH₃ sensing using CNT films deposited on polyimide show good performance in terms of sensitivity and time response to the test gas, with performance comparable with that obtained with evaporated metal electrodes. In addition, we demonstrate the feasibility of inkjet printing the electrodes on top of sprayed CNT layers. This work represents an important step toward large-scale and low-cost fabrication of such a class of devices.</p>
Kongress- / Buchtitel:	SENSORS, 2016 IEEE
Kongress / Zusatzinformationen:	Orlando FL USA, 30 Oct-03 Nov 2016 2016-11
Verlag / Institution:	IEEE Xplore Digital Library
Jahr:	2016
Quartal:	4. Quartal
Jahr / Monat:	

2016-11

Monat:

Nov

Revised:

ja

Volltext / DOI:

doi:10.1109/ICSENS.2016.7808437

WWW:

<http://ieeexplore.ieee.org/abstract/document/7808437/>

Occurrences:

- Hochschulbibliographie > 2016 > Fakultäten > Elektrotechnik und Informationstechnik > Nanoelektronik (Prof. Becherer komm.)
- Einrichtungen > Fakultäten > Fakultät für Elektrotechnik und Informationstechnik > Lehrstühle und Professuren > Nanoelektronik (Prof. Becherer komm.) > 2016

Entries: