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Chemical sensor development based on electrode embedded low-dimensional Ag	
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(Asiri, Abdullah M.) <sup>[1,2]</sup> ; Al-Sehemi, AG (Al-Sehemi, Abdullah G.) <sup>[</sup>	] 94 Cited References
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We have prepared low-dimensional silver oxide nanoparticles (NPs	
reducing agents in alkaline medium. The resulting NPs were characteristic (VPP) View but to be the	Lisage Count
spectroscopy, X-ray powder diffraction (XRD), X-ray photoelectron dispersive spectrometry (XEDS), and field-emission scanning elect	Let 100 Dever 0
were deposited on a flat-polycrystalline gold electrode (AuE, surfac	Since 2012: 28
sensor with a fast response toward 4-nitrophenol (4-NPh) in liquid p	
good sensitivity and long-term stability, and enhanced electrochemi	
plot is linear ( $r(2) = 0.9873$ ) over the large concentration range (LDI	1.0 mu M to 0.5 mM). The
sensitivity and detection limit is calculated to similar to 4.740 mu A	m(-2) mM(-1) and similar to 0.19 Most Recent Citation
mu M (signal-to-noise ratio, at a SNR of 3), respectively. We also di	cuss possible future prospective Santhoshkumar, A. ZnO nanopar hydrothermal synthesis and 4-
uses of this metal oxide nanomaterials in terms of chemical sensing reserved.	(C) 2013 Elsevier Ltd. All rights nitrophenol sensing property . JOURNAL OF MATERIALS SCIE MATERIALS IN ELECTRONICS, 2017.
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