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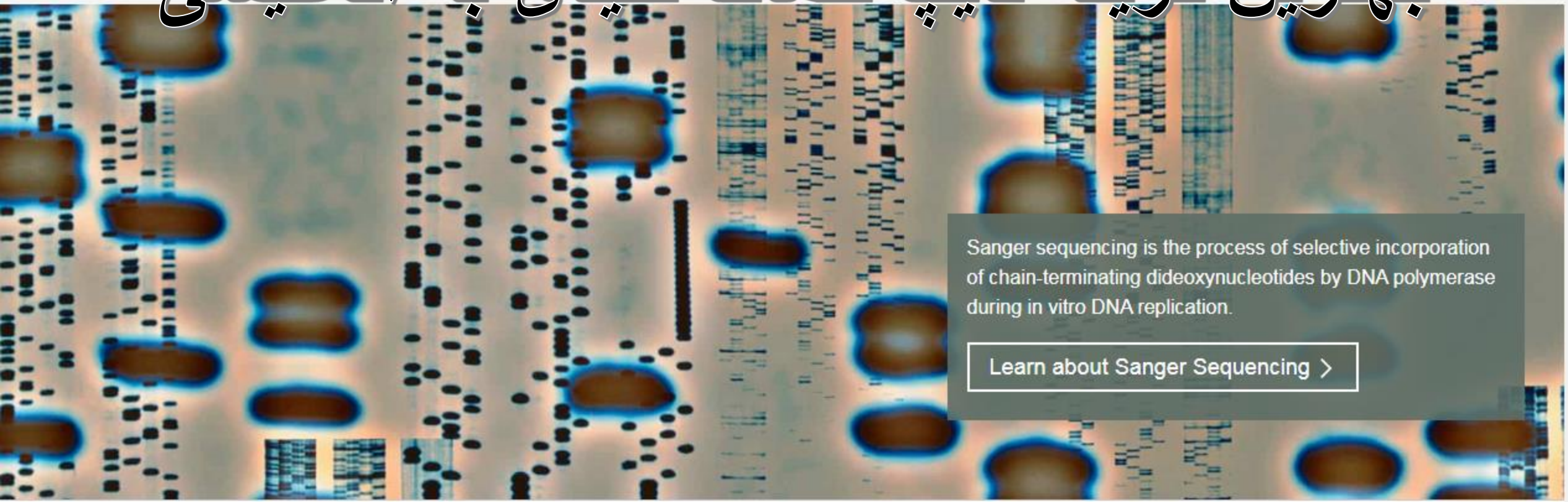

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Room temperature vanadium dioxide–carbon nanotube gas sensors made via continuous hydrothermal flow synthesis

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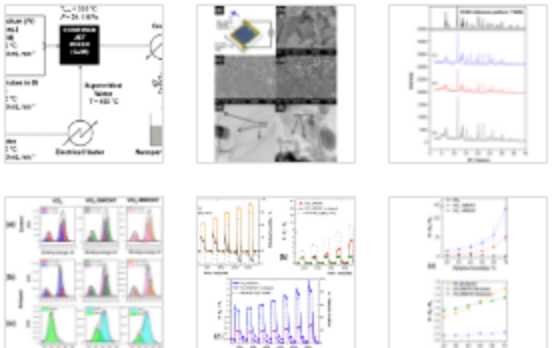

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Room temperature vanadium dioxide–carbon nanotube gas sensors made *via* continuous hydrothermal flow synthesis

Gwyn P. Evans [a, b], Michael J. Powell [b], Ian D. Johnson [b], Dougal P. Howard [b], Dustin Bauer [b], Jawwad A. Darr [b], Ivan P. Parkin [b]

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Abstract

Vanadium dioxide–carbon nanotube (VO_2–CNT) nanocomposite materials were produced *via* a continuous hydrothermal flow synthesis (CHFS) method. The composites were made in a single step from CHFS using dispersions of commercially available single-walled carbon nanotubes (SWCNTs) or multi-walled carbon nanotubes (MWCNTs) in a metal salt solution (aq.). The room temperature gas sensing characteristics of the VO_2-CNT nanocomposites were

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Sensors and Actuators B: Chemical

Room temperature vanadium dioxide–carbon nanotube gas sensors made *via* continuous hydrothermal flow synthesis.

Gwyn. P. Evans[a,b], Michael. J. Powell[b], Ian. D. Johnson[b], Dougal. P. Howard[b], Dustin Bauer[b], Jawwad. A. Darr[b], Ivan. P. Parkin[b,*]

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[b]*Department of Chemistry, University College London, Gordon Street, London, WC1H 0AJ, United Kingdom*
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Abstract

Vanadium dioxide–carbon nanotube (VO_2–CNT) nanocomposite materials were produced *via* a continuous hydrothermal flow synthesis (CHFS) method. The composites were made in a single step from CHFS using dispersions of commercially available single-walled carbon nanotubes (SWCNTs) or multi-walled carbon nanotubes (MWCNTs) in a metal salt solution (aq.). The room temperature gas sensing characteristics of the VO_2-CNT nanocomposites were investigated and compared with sensors of CHFS-made VO_2 without added carbon. The VO_2-CNT nanocomposites were found to display high sensitivity to H_2O vapour, showing excellent potential as humidity sensors. Furthermore, *p*-type responses to ammonia gas were observed, with the VO_2 (no carbon) sensors showing the largest response. Overall, surface composition and microstructure were found to greatly influence sensor responses to H_2O vapour and NH_3 gas.

Keywords: Gas sensor; carbon nanotubes; vandium oxides; continous hydrothermal flow synthesis; humidity sensing; ammonia gas

1. Introduction

The synthesis of gas sensing nanomaterials at scale is important for the development of better commercial gas sensors[1,2]. Nanomaterials have shown promise for sensing of low concentrations of analyte, due to their high surface area and electronic properties that are affected by the local environment[3–5]. In some cases, the particular application and nanomaterial characteristics, permit sensor operation at room temperature, resulting in lower power consumption and increasing sensor suitability for use in portable devices[6]. The development of such materials is key to realising their application in sensors for

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Abstract

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