

Jane Hodgkinson, John Saffell, Jonathan Luff, John Shaw, Jeremy Ramsden, Carlos Huggins, Robert Bogue and Roger Carline

**Gas sensors 1. The basic technologies and applications**

ABSTRACT. This paper focuses on the technologies used for gas sensing, notably optical, electrical, mass-based and biological. Applications are summarized under the headings of healthcare, security, environment and processes, as a precursor to the more detailed consideration of gas sensor markets in Part 2, the following paper.

*Nanotechnology Perceptions* **5** (2009) 71–82

Nonsubscribers: [purchase individual article](#)