

Nanotechnologies and nanosciences at SENSOR Lab CNR-INO and University of Brescia - Italy

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SENSOR Lab. (<http://sensor.ing.unibs.it>) design and develops nanomaterials for gas sensing and energetics and also processes to realize devices and systems for functional applications. Gas Sensors including Electronic Noses realized by nanowires of metal oxide semiconductors are the core of SENSOR activities, priority sectors of commitment are: ICT, Food Safety, Energy, Nanomedicine and Security. The research lines of SENSOR Lab are the following:

- 1-Nanotechnologies and health
- 2-TiO₂ nanotubes for wastewater treatment
- 3-Metal oxide nanowires for gas sensing applications
- 4-Optical gas sensor , Raman spectroscopy and SERS
- 5-Metal oxide nanowires for *energy storage*
- 6-Excitonic solar cells
- 7-Electronic Noses by metal oxide nanowires
- 8-Thermoelectrical generators