

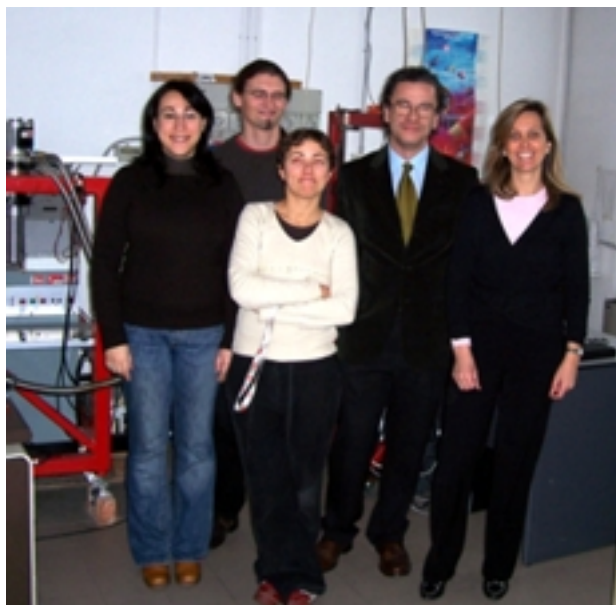
## Gruppo SBSC

GRUPPO SBSC

### **Surface and Bulk Semiconductor Chemistry**

University of Milano-Bicocca, Material Science Department

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### **Researchers:**

Dario Narducci

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### **Topics and Methodologies**

Research activity is focus onto semiconductor bulk and surface processing and characterization both from fundamental and technological point of view (Si – single crystal, poly, nanocrystalline, and porous –, SiC, etc.). Applications span from photovoltaic and chemical sensing to molecular electronics and nanotechnology.

Characterization techniques:

PL spectroscopy in the infrared and visible range (10-300 K), FTIR spectroscopy (Multiple Internal Reflection and Attenuated Total Reflection), Current-Voltage and Surface Photovoltage measurements, Light Beam Induced Current, Spectral response.

Material Processing and preparation:

Molecular Grafting, Self-Assembling, Evaporation, Sputtering, Annealing, Surface Etching, Mechanical Polishing

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