

Armentano Ilaria

Lista delle Pubblicazioni

1. *Effects of Fluorine Incorporation on the Properties of Amorphous Carbon/p-Type Crystalline Silicon Heterojunction Diodes*, L. Valentini, V. Salerni, I. Armentano, J. M. Kenny, L. Lozzi, S. Santucci, *J. of Non-Crystalline Solids* 321 (2003) 175.
2. *Sensors for sub-ppm NO₂ Gas Detection Based on Carbon Nanotubes Thin Films*, L. Valentini, C. Cantalini, L. Lozzi, I. Armentano, J. M. Kenny, S. Santucci, *Appl. Phys. Lett.* 82 (2003) 961; the paper has been also selected to appear on February 17, 2003 volume 7 issue 7 of the *Virtual Journal of Nanoscale Science & Technology*.
3. *NO₂ gas sensitivity of Carbon Nanotubes Obtained by Plasma Enhanced Chemical Vapor Deposition*, C. Cantalini, L. Valentini, L. Lozzi, I. Armentano, J. M. Kenny, S. Santucci, *Sensors and Actuators B* 93 (2003) 333.
4. *Effect of Thermal Annealing on the Electronic Properties of Nitrogen Doped Amorphous Carbon/p-Type Crystalline Silicon Heterojunction Diodes* L. Valentini, L. Lozzi, V. Salerni, I. Armentano, J. M. Kenny, S. Santucci *J. of Vac. Sci. and Technology A* 21 (2003) 582.
5. *Pulsed Plasma Induced Alignment of Carbon Nanotubes*, L. Valentini, I. Armentano, J. M. Kenny, L. Lozzi, S. Santucci, *Materials Letters* 57 (2003) 3699.
6. *Reversible Oxidation Effect on carbon nanotubes thin films for gas sensing applications from*, L. Valentini, C. Cantalini, L. Lozzi, I. Armentano, J. M. Kenny, S. Santucci, *Materials Science and Engineering C* 23 (2003) 523.
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10. *Fluorinated Amorphous Carbon Films Prepared by Plasma Enhanced Chemical Vapor Deposition for Solar Cell Applications*, L. Valentini, V. Salerni, I. Armentano, J.M. Kenny, L. Lozzi, S. Santucci, *J. Vac. Sci. and Technol. A* 21 (2003) 1784.
11. *Electrical Transport Properties of Conjugated Polymer onto Self-Assembled Aligned Carbon Nanotubes*, L. Valentini, I. Armentano, J. M. Kenny, L. Lozzi, S. Santucci, *Diamond and Related Materials* 12 (2003) 1524.
12. *Investigation on the NO₂ sensitivity properties of Multi-Wall Carbon Nanotubes Prepared by Plasma Enhanced Chemical Vapor Deposition*, L. Valentini, C. Cantalini, I. Armentano, L. Lozzi, J. M. Kenny, S. Santucci, *J. Vac. Sci. and Technol. B* 21 (2003) 1996.
13. *Dielectric Behaviour of Epoxy Matrix/Single-Walled Carbon Nanotube Composites*, L. Valentini, D. Puglia, E. Frulloni, I. Armentano, S. Santucci, J. M. Kenny, *Composites Science and Technology* 64 (2004) 23.
14. *NO₂ and CO Gas Adsorption on Carbon Nanotubes: Experiment and Theory*, S. Santucci, S. Picozzi, F. Di Gregorio, L. Lozzi, C. Cantalini, L. Valentini, I. Armentano, J. M. Kenny, B. Delley, *J. of Chem. Phys.* 119 (2003) 10904; the paper has been also selected to appear on November 17, 2003 volume 8 issue 20 of the *Virtual Journal of Nanoscale Science & Technology*.
15. *Controllable Fabrication of Aligned Carbon Nanotubes by Pulsed Plasma: Selective Positioning and Electrical Transport Phenomena*, L. Valentini, I. Armentano, J. M. Kenny, L. Lozzi, S. Santucci, *Materials Letters* 58 (2004) 470.
16. *A Deeper Understanding of the Photodesorption Mechanism of Aligned Carbon Nanotube Thin Films by Impedance Spectroscopy*, L. Valentini, I. Armentano, D. Puglia, J. M. Kenny, L. Lozzi, S. Santucci, *Thin Solid Films* 449 (2004) 105.
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26. *Effect of catalyst layer thickness and Ar dilution on the plasma deposition of multi-walled carbon nanotubes*, L. Valentini, I. Armentano, J.M. Kenny, L. Lozzi, S. Santucci, Diamond and Related Materials 12 (2003) 821.
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 33. *Vacancy-induced chemisorption of NO₂ on carbon nanotubes: a combined theoretical and experimental study* F. Mercuri, L. Valentini, I. Armentano, A. Sgamellotti, J. M. Kenny, J. Phys. Chem. B 109 (2005) 13175.
 34. *Electrically switchable carbon nanotubes hydrophobic surfaces* L. Valentini, I. Armentano, J.M. Kenny, Diamond and Related Materials 14 (2005) 121.
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40. *Effects of Carbon Nanotubes (CNTs) on the Processing and In-Vitro Degradation of Poly(DL-Lactide-co-Glycolide)/CNT Films* I. Armentano, M.S. Dottori, D. Puglia and J.M. Kenny. *J Mater Sci: Mater Med* 19 (2008) 2377.
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