



## NANOTEC2009.IT POSTER SESSION PROGRAM:

### Governance and Sustainable Development (Tuesday, March 31st 2009)

Poster Number	Corresponding author	Corresponding author organisation	Poster title	Country
1-GOV	Regina Ciancio	CNR-INFM LN TASC	NFFA: Nanoscience Foundries and Fine Analysis	Italy
2-SD	Mohamed Bahgat	CMRDI	Fe <sub>2</sub> O <sub>3</sub> /WO <sub>3</sub> Nano-Particles for Synthesis of Nanocrystalline Fe-W Composite	Egypt
3-SD	Marco Bolzan	CNR - Istituto di Chimica Inorganica e delle Superfici	Development of CVD Processes of Nanostructured Zirconia Based Materials	Italy
4-SD	Massimo Celino	ENEA - C. R. Casaccia	Virtual Laboratory for Nanotechnology Applications	Italy
5-SD	Zorana Dohcevic-Mitrovic	Institute of physics, Center for solid state physics and new materials	Raman and spectroscopic ellipsometry study of defect states in Ce <sub>0.85</sub> Gd <sub>0.15</sub> (Y)O <sub>2-<math>\delta</math></sub> nanocrystals	Serbia
6-SD	Claudio Evangelisti	Dip. di Chimica e Chimica Industriale, Università di Pisa	The Control of the Growth of Metal Clusters in Solution: a Way to Prepare Metal Particles of Tailored Size	Italy
7-SD	Alberto Gasparotto	Padova University and INSTM	A combined RF-sputtering/Sol-Gel approach to Ag/TiO <sub>2</sub> nanocomposites for functional applications	Italy
8-SD	Saulius Kaciulis	ISMN-CNR	Nanostructural Evolution of Fibre-Matrix Interface in Ti <sub>6</sub> Al <sub>4</sub> V-SiCf Composite	Italy
9-SD	Mohamed Khedr	Benisuef University	CoFe <sub>2</sub> O <sub>4</sub> / NiFe <sub>2</sub> O <sub>4</sub> Core/Shell Nanoparticles:- Reduction Kinetics, Magnetic and Photocatalytic Activity	Egypt
10-SD	Georgy Kodzhaspirov	St.Petersburg State PolytechnicalUniversity	Advanced Severe Plastic Deformation Techniques for Processing Bulk Nanostructured Metal Production	Russia
11-SD	Oleg Lavrichshev	Physical department of al-Farabi Kazakhstan National University	Fabrication of Thin Film Au/Ga(Al)As Solar Cell on the Basis of AlAs Nanoscale Matrix Substrate	Kazakhstan
12-SD	Federica Menegazzo	Università Cà Foscari di Venezia- Dip. Chimica	Gold nanoparticles as catalysts for low-temperature WGS reaction	Italy
13-SD	Elisa Mercadelli	ISTEC-CNR	Cerium oxide nanoparticles for catalytic applications	Italy
14-SD	Amelia Montone	ENEA	Carbon nanostructures synthesised by AC arc discharge at atmospheric pressure	Italy
15-SD	Daniele Mirabile Gattia	ENEA	Characterization of carbon supports for preparation of electrodes for fuel cells	Italy
16-SD	Bernardo MOLINAS	Venezia Tecnologie SpA	Original synthesis of Magnesium Hydride with Cr <sub>2</sub> O <sub>3</sub> by PVD for Hydrogen Storage	Italy
17-SD	MariaPia Pedferri	Politecnico di Milano	Photocatalytic characterization of white and coloured mortars achieved by the addition of titanium dioxide in different forms	Italy
18-SD	Franco Pepe	Dip. di Ingegneria Meccanica e Industriale università degli studi Roma Tre	Bio-Ethanol steam reforming on Co <sub>3</sub> O <sub>4</sub> / CexZr1-xO <sub>2</sub> catalysts: Characterization and redox behaviour of nano and micro CexZr1-xO <sub>2</sub> supports	Italy
19-SD	Alexandr Ustimenko	Physical Dep. of al-Farabi Kazakhstan National University	Nanocarbon Coating of Electrodes for Plasma Torch Life Prolongation	Kazakhstan
20-SD	Byong Yong Yu	Dep. of Materials Science and Engineering, Seoul National University, Korea	Synthesis of Nanostructured Mesoporous Ferrite Using Soft Template for CO <sub>2</sub> Decomposition	Republic of Korea
21-SD	Jizhong Zhang	Tsinghua University	Synthesis of Nano SiC Film by Ion Beam Technique	P.R. China
22-SD	Stefania Castiello	CNR-INFM polyLab Pisa	Polymer melt intercalation and in situ polymerization of lactide in innovative organophilic montmorillonites	Italy
23-SD	Stefano di Stasio	Aerosol & Nanostructures Lab - Istituto Motori CNR	A study about surface chemical-physics mechanisms occurring for interacting metal nanostructures with gas NO <sub>2</sub>	Italy



## NANOTEC2009.IT POSTER SESSION PROGRAM:

Health and Medical Devices and ICT, Electronics & Security  
Wednesday, April 1st 2009

Poster Number	Corresponding author	Corresponding author organisation	Poster title	Country
1-HE	Giovanni Attolini	IMEM-CNR	3C- SiC nanowires and layers grown on Si: attractive material for biosensor applications	Italy
2-HE	Clara Baldoli	CNR ISTM	Synthesis of Poly(hydrazidoamine)s (PHA): a New Class of Hydrosoluble and Biocompatible Polymers Potentially Useful for Biomedical Applications	Italy
3-HE	Andrea Bearzotti	Institute of Microelectronics and Microsystems (IMM-CNR)	Electrospun polymer nanofibres toward diagnostic devices	Italy
4-HE	Cecilia Bombelli	CNR-IMC	Synthetic Lipids as Components of Drug Delivery Systems	Italy
5-HE	Maria Luisa Bondi	ISMN-CNR	Lipid nanoparticles as carriers for targeted release of riluzole into the Central Nervous System	Italy
6-HE	Elisabetta Borsella	ENEA	Functionalization of superparamagnetic iron oxide nanoparticles for imaging	Italy
7-HE	Daniela Caschera	ISMN-CNR	Colloidal Metal Nanoparticles: green synthesis and biotechnological applications	Italy
8-HE	G. Padeletti	ISMN-CNR	TiO <sub>2</sub> nanostructured biosensor based on direct electron transfer of glucose oxidase and horseradish peroxidase immobilized on nanostructured layer	Italy
9-HE	Maria Cristina Cassani	Dip. di Chimica Fisica e Inorganica, Università di Bologna	Synthesis of silver nanoparticles stabilized by amine-terminated ionic liquids	Italy
10-HE	Gennara Cavallaro	Dept. of Chimica e Tecnologie Farmaceutiche, University of Palermo	New generations of biocompatible graft copolymers for the production of nanodevices	Italy
11-HE	Marcella Chiari	CNR ICRM	Nanoscale determination of conformation of a polymeric coating for microarray applications	Italy
12-HE	Jae Woo Chung	Dep. of Materials Science and Engineering, Seoul National University, Korea	Metal-Induced Cyclodextrin Self-Assembly	Republic of Korea
13-HE	Loretta L. del Mercato	Philipps-Universität Marburg	Synthesis of nanoparticle-modified polymer capsules for biological applications	Germany
14-HE	Erika Ercolini	Consorzio per il Centro di Biomedicina Molecolare scrl	Elementary Events Underlying Force Generation in Lamellipodia of Dorsal Root Ganglia Neurons Studied by Optical Tweezers	Italy
15-HE	Maria Emanuela Errico	CNR -Istituto di Chimica e Tecnologia dei Polimeri	PMMA/SiO <sub>2</sub> nanocomposites for biomedical applications: structure/properties relationships	Italy
16-HE	Mauro Falconieri	ENEA C.R. Casaccia.	Building-Up Luminescent Silicon Nanoparticles for Bio-Imaging Applications	Italy
17-HE	Caterina Fede	Dep. of Biology, University of Padova	Cytotoxicity and DNA Damage Induced in Human Cells Incubated with Commercial Nanomaterials	Italy
18-HE	Emma Fenude	CNR Istituto di Chimica Biomolecolare	Ring Constraint Cyclic Peptidomimetics: A Chemical Model to Study Helices and Macrocycles	Italy



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Health and Medical Devices and ICT, Electronics & Security  
Wednesday, April 1st 2009

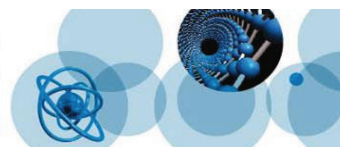
19-HE	<b>Daniela Ferro</b>	ISMN-CNR	Nanopowders and Nanostructured Hydroxyapatite Ceramics for Bone Tissue Repair	Italy
20-HE	<b>Paolo Gasco</b>	Nanovector srl, Gruppo Nanobiotecnologie di Assobiotec	Uptake, intracellular trafficking and drug release of Solid Lipid Nanoparticles vehiculating Doxorubicin and 6-Coumarin in human U373 astrocytoma cell culture	Italy
21-HE	<b>Corrada Geraci</b>	CNR ICB	Calixarene Derivatives Able to Self-Assembly in Nanosized Structures: Promising Systems in Drug Delivery	Italy
22-HE	<b>G. Giammona</b>	Dip. di Chimica e Tecnologie Farmaceutiche, Università degli Studi di Palermo	Polymeric micelles as drug delivery systems towards brain targeting	Italy
23-HE	<b>Vincenzo Guarino</b>	IMCB/CNR	Implications of process parameter changing on morphology of sub-micrometric electrospun substrates by imaging techniques	Italy
24-HE	<b>Sergio Iavicoli</b>	ISPESL – Dept. of Occupational Medicine	The Occupational Health Contribution to a Responsible and Sustainable Development of Nanotechnologies	Italy
25-HE	<b>Stefano Marangoni</b>	Politecnico di Milano	A 6x8 photon-counting array detector system for fast and sensitive analysis of protein microarrays	Italy
26-HE	<b>Paolo Matteini</b>	CNR - Istituto di Fisica Applicata	Gold nanorods as near infrared photothermal and photoacoustic transducers for biomedical applications	Italy
27-HE	<b>Antonino Mazzaglia</b>	ISMN-CNR	Amphiphilic Cyclodextrins as Multifunctional Carrier Systems of Photosensitisers and Gold Nanoparticles for Biomedical Applications	Italy
28-HE	<b>Stefania Meschini</b>	Istituto Superiore di Sanità	In Vitro Effects of the Interaction of ZnO Nanoparticles and TiO <sub>2</sub> Fine Particles with Human Colon Carcinoma Cells	Italy
29-HE	<b>Pierfrancesco Morganti</b>	MAVI Sud S.r.l., Gruppo Nanobiotecnologie di Assobiotec	SKIN EFFICACY OF CHITIN/NANOSTRUCTURED CRYSTALLITES	Italy
30-HE	<b>N. El Assawy</b>	Dep. of Neurology and Neurorehabilitation, IRCCS Istituto Auxologico Italiano	Baclofen-loaded solid lipid nanoparticles administration in rats: pharmacokinetics and neurophysiological study	Italy
31-HE	<b>G.Pitarresi</b>	Lab of Biocompatible Polymers, Università di Palermo	Scaffolds Based on Hyaluronic Acid and Polyaminoacids as Artificial ECM Substitutes	Italy
32-HE	<b>Raffaele Riccò</b>	Associazione CIVEN (Coordinamento Interuniversitario Veneto per le Nanotecnologie)	Fluorophore doped luminescent Silica Nanoparticles as efficient labels in DNA-Microarrays	Italy
33-HE	<b>Giacomo Ruggeri</b>	Dip. Chimica Industriale, Università di Pisa	Preparation and Characterization of Biocompatible Magnetic Fe@Au Nanoparticles for Application in MRI	Italy
34-HE	<b>Simona Salerno</b>	Institute on Membrane Technology, ITM-CNR	Nanostructured membrane bioreactor for liver tissue engineering as a tool for drug testing	Italy
35-HE	<b>Bruno Sperduto</b>	Università Cattolica del S. Cuore	Occupational exposure to laser printer emissions	Italy
36-HE	<b>Adalgisa Tavoraro</b>	CNR Istituto per la Tecnologia delle Membrane (CNR ITM)	Hydrothermal synthesis of zeolite nanocrystals and membranes: A study on their application in protein immobilization	Italy
37-HE	<b>Cristina Tortolini</b>	Dip. di Chimica e Tecnologia del Farmaco, "Sapienza" Università di Roma	Screen Printed multi-walled Carbon Nanotubes based Biosensors	Italy
55-HE	<b>Maria Pia Casaletto</b>	ISMN-CNR	Development of nimesulide loaded solid lipid nanoparticles	Italy
56-HE	<b>Sabrina Foglia</b>	CNR-IFN	Fabrication of carbon nanodevices for future nanoelectronics	Italy
57-HE	<b>Maria Sabrina Sarto</b>	Università di Roma "La Sapienza", Dip.to Ingegneria Elettrica	Sapienza Nano <sup>3</sup> : a core-facility for nanotechnologies, nanosciences and nanomedicine	Italy



**NANOTEC2009.IT POSTER SESSION PROGRAM:**

**Health and Medical Devices and ICT, Electronics & Security**  
**Wednesday, April 1st 2009**

38-ICT	<b>Andrea Bearzotti</b>	IMM-CNR	Innovative humidity sensor materials based on nanostructured co-polymers	Italy
39-ICT	<b>Aldona Beganskiene</b>	Vilnius University	Chemical Modification of Antireflective Nanosilica Coatings by Sol-Gel Technique	Lithuania
40-ICT	<b>Francesca Bonfigli</b>	ENEA	LiF films for high versatile and efficient X-ray imaging detectors	Italy
41-ICT	<b>P. Calvani</b>	Dip. di Ingegneria Elettronica, Università degli Studi Roma Tre	UV enhanced field effect phototransistors on H-terminated diamond	Italy
42-ICT	<b>Maria Angela Castriciano</b>	ISMN-CNR	Non-Covalent Self-Assembled Porphyrin Systems	Italy
43-ICT	<b>Chiara Maccato</b>	Università degli Studi di Padova	SiO <sub>2</sub> -sandwiched gold nanoparticle arrays by an innovative plasma-assisted strategy	Italy
44-ICT	<b>Francesco Mercuri</b>	ISTM-CNR, Dip. di Chimica, Università di Perugia	Modeling of Nanostructured Materials: from Principles to Applications	Italy
45-ICT	<b>Luca Mezi</b>	ENEA	First Italian EUV lithography micro-exposure-tool.	Italy
46-ICT	<b>Davide Micheli</b>	Università "La Sapienza" di Roma	X-Band Microwave Carbon-based Nanocomposite Material Characterization	Italy
47-ICT	<b>Daniele Murra</b>	ENEA	A new anti-counterfeiting marking system	Italy
48-ICT	<b>Chiara Pasquini</b>	Dip. di Chimica Università "La Sapienza" di Roma	Synthesis of Luminescent $\pi$ -Conjugated Polymers for Optoelectronic Devices, by Ruthenium Acid-Promoted (RAP) Catalysis	Italy
49-ICT	<b>Roberto Pastore</b>	Università "La Sapienza" di Roma	Carbon Nanotubes Functionalization Techniques for Advanced Nanocomposite Production	Italy
50-ICT	<b>Amalia Torre</b>	ENEA	ENEA laser-plasma-source micro-exposure tool: debris-related investigations	Italy
51-ICT	<b>Maria Aurora Vincenti</b>	ENEA	Direct writing of color center Bragg grating in lithium fluoride thin layers	Italy
52-ICT	<b>Alessandra Sanson</b>	Institute for Science and Technology for Ceramics (ISTEC)-CNR	Microwave-assisted synthesis of nanometric Y <sub>2</sub> O <sub>3</sub> particles for laser source application	Italy
53-ICT	<b>Alessandro De Toni</b>	Ingegneria dell'informazione - Università degli studi di Padova	Preliminary results about nano-structured high performances sensors for chemical and biomedical applications based on CD/DVD manufacturing process	Italy
54-ICT	<b>Annamaria Gerardino</b>	CNR-Istituto di Fotonica e Nanotecnologie	Electrically Driven Photonic Crystal Nanocavity for Single Photon Source at 1300nm	Italy



## NANOTEC2009.IT POSTER SESSION PROGRAM:

Made in Italy, Cultural Heritage  
Thursday April 2nd 2009

Poster Number	Corresponding author	Corresponding author organisation	Poster title	Country
1-MI	<b>Giovanna Giuliana Buonocore</b>	CNR - Istituto Materiali Compositi e Biomedici	Chitosan/montmorillonite (Na-MMT) nanocomposite film for food packaging applications: Preparation and characterization	Italy
2-MI	<b>Alessandro Cannavale</b>	Politecnico di Bari - Dip. di Architettura e Urbanistica	Nanostructured engineered surfaces exhibiting self-cleaning and antireflection effect	Italy
3-MI	<b>Alessandra Ciappa</b>	Associazione CIVEN	High performance polyester gelcoats containing surface-modified nanoparticles	Italy
4-MI	<b>Serena Coiai</b>	Dip. di Chimica e Chimica Industriale, Università di Pisa	Nanocomposite materials based on organo-modified layered double hydroxides (O-LDHs)	Italy
5-MI	<b>Isabella Concina</b>	SENSOR, CNR-INFM	Electronic Noses as Monitoring Tools For Food Quality Assessment At The End Of The Production Chain	Italy
6-MI	<b>Patrizia De Marco</b>	CASTI, CNR-INFM Regional Laboratory, and University of L'Aquila	Super hydrophobic and abrasion resistance of organic-inorganic hybrid coatings for industrial applications.	Italy
7-MI	<b>Daniela Ferro</b>	ISMN-CNR	Nanostructured Films of Refractory Carbides on Titanium Produced by Pulsed Laser and Electron Beam Deposition Techniques	Italy
8-MI	<b>Kristian Kloeckl</b>	Università luav di Venezia	NanoDesign - Industrial Design and Nanotechnology exploring new ways for the packaging of agricultural products.	Italy
9-MI	<b>Amelia Montone</b>	ENEA	Study of barrier property Polyvinylalcohol/ graphite nanosheets nanocomposites	Italy
10-MI	<b>Alessandro Patelli</b>	CIVEN	SiOx-based Multilayer Barrier Coatings produced by a Single PECVD Process	Italy
11-MI	<b>Mariano Pracella</b>	Istituto Materiali Compositi e Biomedici- CNR	Polypropylene - Polyhedral Oligomeric Silsesquioxanes (POSS) Nanocomposites: Phase Interactions, Morphology and Thermal Behaviour	Italy
12-MI	<b>Davide Raffi</b>	Università della Toscana c/o CNR Istituto di Cristallografia	A portable double-detection biosensor for agro-food and environmental monitoring	Italy
13-MI	<b>Marco Scatto</b>	C.I.P. Centro Italiano Packaging srl	Polyolefin nanocomposites prepared by melt compounding in a twin-screw extruder	Italy
14-CH	<b>Clara Bertolini, Tanja Marzi</b>	Politecnico di Torino - DIPRADI	Nanotechnologies for the conservation of timber construction belonging to cultural heritage	Italy
15-CH	<b>Lucia D'Arienzo</b>	Università degli Studi di Salerno - Dip. di Ingegneria Chimica e Alimentare	Protection and consolidation of tuff stone by means of innovative polymer-silicate nanocomposites	Italy
16-CH	<b>Giuseppe Milazzo</b>	Università degli Studi di Palermo	Nanostructured Gels for the Conservation of a Slate Painted Work of Art	Italy