

ANTONINO CATALDO



PERSONAL SKILLS

Language

- Mother tongue: Italian
- English: good knowledge of written and oral English
- French: good knowledge of written and oral French

Software

- Windows e Linux
- Programming language: Fortran77
- Ms Office, Open Office.
- Graphics: Gimp 2.0, Adobe Photoshop
- Browser: Firefox, Internet Explorer, Chrome
- Data processing: OriginLab®, Kaleidagraph®

Scientific equipments

- Dynamic light scattering
- X-rays diffraction
- Vector network analyzer
- Small Angle X-rays Scattering
- Electric characterization in DC with 2 probe method
- Chemical vapor deposition equipment (thermal and hot filament)

WORK EXPERIENCE

- 01/06/2015-
nowdays Contractor researcher, *INFN-LNF*
- Research activities on characterization of graphene and other carbon nanostructured materials for electromagnetic application in high frequencies
- 10/2014-05/2015 Visiting researcher, *INFN-LNF*
- Research activities on synthesis and preparation of carbon nanostructures and their nanocomposite materials. Electromagnetic characterization of nanocomposites for electromagnetic shielding. Preparation of drug delivery systems.
- 09/2012-09/2014 Fellowship, *INFN-LNF*
- Research activities on synthesis and preparation of carbon nanostructures and their nanocomposite materials. Electromagnetic characterization of nanocomposites for electromagnetic shielding.
- 07/2012-09/2012 Freelance consultant, *University of Palermo*
- Peer review of scientific results about PRIN2008 project: "Preparazione e caratterizzazione di composti polimerici nanostrutturati" with final reports of project activities
- 02/2012-05/2012 Freelance consultant, *Liceo Scientifico "G. D'Alessandro" di Bagheria*
- Planner of lectures and laboratory activities about PON project "La Chimica nascosta nella vita di tutti i giorni"
- 03/2011 Apprentice, *Centro Grandi Apparecchiature UniNet Lab*
- Structural analysis on hard and soft matter with Small Angle X-Rays Scatteing (SAXS) equipment and relative data processing
- 08/2007-09/2007 Apprentice, *ARPA Sicilia*
- Analytical chemical analysis on principal parameters of water quality

EDUCATION

- 02/2015 PhD in Chemistry with thesis "Preparation and Characterization of polimeric functional composite based on carbon nanostructures, *University of Palermo*
- 11/2011 Master degree on Chemistry of microheterogeneous systems 110/110 cum Laude, *University of Palermo*
- 03/2008 Bachelor degree on Chemistry 110/110 cum Laude, *University of Palermo*
- 07/2005 High school Diploma 98/100, *Liceo Scientifico Statale "Stanislao Cannizzaro" (scientific studies)*

ACTIVITIES AND VISITING RESEARCH

- 26/05/2014-11/06/2014 Visiting researcher, *Belarusian State University, Institute for Nuclear Problems, Minsk, Bielorrussia*, Scientific activity on the european project FAEMCAR
- 25/11/2013-07/12/2013 Visiting researcher, *Institute of Mechanics, Bulgarian Academy of Sciences, Sofia, Bulgaria*, Scientific activity on the european project FAEMCAR
- 23/06/2013-03/07/2013 Student, *ILL Grenoble, France, Italian Society of Nuèutron Spectroscopy*, Specialization school on Neutron spectroscopy with experimental activities
- 27/05/2013-09/06/2013 Visiting researcher, *Belarusian State University, Institute for Nuclear Problems, Minsk, Bielorrussia*, Scientific activity on the european project FAEMCAR

PARTICIPATION AND COMMUNICATIONS TO SCIENTIFIC CONGRESSES

- 1-2/12/2011 *Convegno Congiunto delle Sezioni Calabria e Sicilia 2011, Messina, Poster. 4° posto*
"Preparazione assistita da microonde di nanoplacchette di grafene in miscela acqua/liquido ionico" G. Nasillo, A. Cataldo, M. Floriano, E. Caponetti
- 16 – 21/09/2012 *The 15th European Microscopy Congress, Manchester Central, United Kingdom, Poster,*
"Graphene nanoplatelets (GNPs): new preparation methods and their structural characterization" G. Nasillo, A. Cataldo, E. Caponetti
- 1-4/10/2012 *Nanoscience & Nanotechnology 2012, Frascati, , Poster*
"Graphene nanoplates:exfoliation of graphite in water/ionic liquid mixtures and their characterization" A.Cataldo, G. Nasillo, M. Floriano, E. Caponetti, S. Mangialardo, P. Postorino
- 16-21/06/2013 *EPF 2013, Pisa, Oral communication*
"Functional characterization in broadband of epoxy polymer structures with carbon nanoinclusions" S. Bellucci, P. Kuzhir, A. Paddubskaya, S. Maksimenko, A. Cataldo, F. Micciulla, J. Banys, J. Macutkevic
- 16-21/06/2013 *EPF 2013, Pisa, Poster*
"E.M. Attenuation Performance of Exfoliated Graphite Composites for Microwave Applications" Antonino Cataldo, Stefano Bellucci, Alain Celzard, Jan Macutkevic, Polina Kuzhir
- 16-21/06/2013 *EPF 2013, Pisa, Poster*
"Transport mechanisms and dielectric relaxation of epoxy nanocomposites in dc to microwave range" A. Cataldo, S. Bellucci, P. Kuzhir, S. Maksimenko, D. Bychanok, C. Brosseau
- 21-27/07/2013 *ICCE21st, Tenerife, Oral communication*
"Electrical transport in carbon black-epoxy resin composites at different temperatures" A. Cataldo , J. Macutkevic , P. Kuzhir, A. Paddubskaya, S. Maksimenko, F. Micciulla, S. Bistarelli, J. Banys, A. Celzard, V. Fierro, S. Bellucci
- 9-13/09/2013 *ICEEA'13, -Torino, Oral communication*
"Nanocarbon broadband analysis, temperature dependent dielectric properties and percolation thresholds" A. Cataldo , J. Macutkevic , P. Kuzhir, A. Paddubskaya, S. Maksimenko, F. Micciulla, J. Banys, S. Bellucci
- 6-7/10/2014 *Nanoscience & Nanotechnology 2014, Frascati, Oral communication*

“Structural investigation and mechanical properties of epoxy resins nanocomposites through solid state NMR and nanoindentation” A. Cataldo, A. Spinella, E. Ivanov, R. Kotsilkova, E. Caponetti, F. Micciulla, S. Bistarelli, S. Bellucci

25-27/05/2015 *Fundamental and Applied NanoElectroMagnetics, Minsk, Belarus, Poster*
“Synthesis and electrical properties nanocomposites of epoxy resin with Nanocarbon filler” Agnieszka Dabrowska, Stefano Bellucci, Antonino Cataldo, Federico Micciulla, and Andrzej Huczko

25-27/05/2015 *Fundamental and Applied NanoElectroMagnetics, Minsk, Belarus, Poster*
“Structural and mechanical properties of epoxy resins nanocomposites loaded with carbon nanostructures” Antonino Cataldo, Matteo Mastrucci, Evgeni Ivanov, Alberto Spinella, Delia F. Chillura Martino, Eugenio Caponetti, Rumiana Kotsilkova, Federico Micciulla, Stefano Bellucci

OTHER ACTIVITIES

10/2007- 03/2012 Educational activities about divulgation of Chemistry with ptoject “La Magia della Chimica” (The Magic of Chemistry) under the supervision of Prof. M. Floriano and collaboration of other colleagues. “La Magia della Chimica” is a demonstration of chemical and physical experiments addressed to high school student. During this period I partecipated to festival, workshop and corgress devoted to education field.

01/2013- nowadays Educational activities in LNF activities during “Open Days” festival and guided visit as guide or speaker in lab site.

2013-nowdays Local organizing committee member of Nanoscience and Nanotechnology conference locate in Frascati