

CURRICULUM VITAE



PERSONAL INFORMATION

Name **SILVIA BITTOLO BON**
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Nationality Italian
Date of birth 14/04/1977

CURRENT OCCUPATION Post Doc

SCIENTIFIC ACTIVITY

Publications

1. "Electrodeposited carbon nanotubes as template for the preparation of semi-transparent conductive thin films by in situ polymerization of methyl methacrylate" L. Valentini, S. Bittolo Bon, J. M. Kenny, Carbon 45 (2007) 2685.
2. "Realization of Porous Poly(methyl methacrylate) Films Filled with Electrodeposited Carbon Nanotubes", L. Valentini, S. Bittolo Bon, J. M. Kenny, Nanotechnology 19 (2008) 295301.
3. "Anisotropic Electrical Transport Properties of Aligned Carbon Nanotubes/Poly(methyl methacrylate) Films Obtained by Electric Field Assisted Thermal Annealing" L. Valentini, S. Bittolo Bon, J. M. Kenny, Macromol. Mater. Eng. 293 (2008) 867.
4. "Plasma Fluorination of Chemically Derived Graphene Sheets and Subsequent Modification With Butylamine" S. Bittolo Bon, L. Valentini, R. Verdejo, J. L. Garcia Fierro, L. Peponi, M. A. Lopez-Manchado, J. M. Kenny, Chem. Mater. 21 (2009) 3433.
5. "Use of Butylamine Modified Graphene Sheets in Polymer Solar Cells" L. Valentini, M. Cardinali, S. Bittolo Bon, D. Bagnis, R. Verdejo, M. A. Lopez-Manchado, J. M. Kenny, J. Mater. Chem. 20 (2010) 995.
6. "Morphology and Photoelectrical Properties of Solution Processable Butylamine Modified Graphene and Pyrene-Based Organic Semiconductor" S. Bittolo Bon, L. Valentini, R. M. Moustafa, F. M. Jradi, B. R. Kaafarani, R. Verdejo, M. A. Lopez-Manchado, J. M. Kenny, J. Phys. Chem. C 114 (2010) 11252.
7. "Preparation of extended alkylated graphene oxide conducting layers and effect study on the electrical properties of PEDOT:PSS polymer composites" S. Bittolo Bon, L. Valentini, J. M. Kenny, Chem. Phys. Lett. 494 (2010) 264.
8. "Electrodeposition of transparent and conducting graphene/carbon nanotube thin films" S. Bittolo Bon, L. Valentini, J. M. Kenny, L. Peponi, R. Verdejo, M. A. Lopez-Manchado, Physica Status Solidi A 207 (2010) 2461.
9. "Stimuli-Responsive Polymer Hydrogels Containing Partially Exfoliated Graphite" V. Alzari, A. Mariani, O. Monticelli, L. Valentini, D. Nuvoli, M. Piccinini, S. Scognamillo, S. Bittolo Bon, J. Illescas, J. Polymer Sci. Part A: Polymer Chem. 48 (2010) 537
10. "Transparent and conductive graphene oxide-polyethylenglycol diacrylate coatings obtained by photopolymerization" M. Sangermano, S. Marchi, L. Valentini, S. Bittolo Bon, P. Fabbri, Macromolecular Materials and Eng. 296 (2011) 401.
11. "High Concentration Few-layer Graphene Sheets Obtained by Liquid Phase Exfoliation of Graphite in Ionic Liquid" D. Nuvoli, L. Valentini, V. Alzari, S. Scognamillo, S. Bittolo Bon, M. Piccinini, J. Illescas, A. Mariani, J. Mater. Chem. 21 (2011) 3428.
12. "Electric Field Assisted Thermal Annealing Reorganization of Graphene Oxide/Polystyrene Latex Films" S. Bittolo Bon, L. Valentini, J. M. Kenny, Express Polymer Lett. 5 (2011) 819.
13. "Wettability and switching of electrical conductivity in UV irradiated graphene oxide films" S. Bittolo Bon,

- M. Piccinini, A. Mariani, J. M. Kenny, L. Valentini, *Diamond and Related Materials* 20 (2011) 871.
14. "Processing and functionalization effect in CNF/PMMA nanocomposites" H. Varela-Rizo, S. Bittolo-Bon, I. Rodriguez-Pastor, L. Valentini, I. Martin-Gullon, *Composites: Part A* 46 (2012) 711.
 15. "Preparation and characterization of poly (butylene terephthalate)/graphene composites by in-situ polymerization of cyclic butylene terephthalate" P. Fabbri, E. Bassoli, S. Bittolo Bon, L. Valentini, *Polymer* 53 (2012) 897.
 16. "Deposition of amino-functionalized polyhedral oligomeric silsesquioxanes on graphene oxide sheets immobilized onto amino-silane modified silicon surface" L. Valentini, S. Bittolo Bon, O. Monticelli, J. M. Kenny, *J. Mater. Chem* 22 (2012) 6213.
 17. "POSS vapor grafting on graphene oxide film" Luca Valentini, Silvia Bittolo Bon, Marta Cardinali, Orietta Monticelli, Josè M. Kenny, *Chem. Phys. Lett.* 537 (2012) 84.
 18. "Emerging methods for producing graphene oxide composites in coatings with multifunctional properties" L. Valentini, S. Bittolo Bon, J. M. Kenny, *J. Mater. Chem.* 22 (2012) 21355.
 19. "In-situ graphene oxide reduction during UV-photopolymerization of graphene oxide/acrylic resins mixtures" P. Fabbri, L. Valentini, S. Bittolo Bon, D. Foix, L. Pasquali, M. Montecchi, M. Sangermano, *Polymer* 53 (2012) 6039.
 20. "Plasma etching of polystyrene latex particles for the preparation of graphene oxide nanowalls" L. Valentini, S. Bittolo Bon, *J. Serbian Chem. Soc.* 77 (2012) 1701.
 21. "Liquid Droplet Excitation of Freestanding Poly(methylmethacrylate)/Graphene Oxide Films for Mechanical Energy Harvesting" L. Valentini, S. Bittolo Bon, J. Kenny, *J. Polym. Science Part B: Polymer Physics* 51 (2013) 1028.
 22. "Poly(methyl methacrylate)/Graphene Oxide Layered Films as Generators for Mechanical Energy Harvesting" L. Valentini, S. Bittolo Bon, J. M. Kenny, *ACS Applied Materials & Interfaces* 5 (2013) 3770.
 23. "Multistimuli-responsive hydrogels of poly (2-acrylamido-2-methyl-1-propanesulfonic acid) containing graphene" V. Alzari, D. Nuvoli, R. Sanna, L. Peponi, M. Piccinini, S. Bittolo Bon, S. Marceddu, L. Valentini, J. M. Kenny, A. Mariani, *Colloid and Polymer Science* 291 (2013) 2681.
 24. "Transfer Writing of Foldable Graphene Nanoplatelet Patterns on Paper Substrates" L. Valentini, S. Bittolo Bon, J. M. Kenny, *Materials Letters* 113 (2013) 54.
 25. "Preparation of transparent and conductive cellulose nanocrystals/graphene nanoplatelets films" L. Valentini, S. Bittolo Bon, E. Fortunati, J. M. Kenny, *J. Mater. Sci.* 49 (2014) 1009.
 26. "Pyroshock testing on graphene based EPDM nanocomposites" L. Valentini, A. Bolognini, A. Alvino, S. Bittolo Bon, M. Martin-Gallego, M. A. Lopez-Manchado, *Composites Part B* 60 (2014) 479.
 27. "Multilayer Films Composed of Conductive Poly(3-hydroxybutyrate)/Carbon Nanotubes Bionanocomposites and a Photoresponsive Conducting Polymer" L. Valentini, P. Fabbri, M. Messori, M. degli Esposti, S. Bittolo Bon, *J. Polym. Science Part B: Polymer Physics* 52 (2014) 596.

Conference Proceedings

1. Luca Valentini, Silvia Bittolo Bon, Josè M. Kenny (2013). Pencil Transfer of Graphene Nanoplatelets on Paper Substrates: Example of Foldable Electronics. In: IX CONVEGNO NAZIONALE INSTM SULLA SCIENZA E TECNOLOGIA DEI MATERIALI. Bari, 30 Giugno-3 Luglio 2013
2. S. Bittolo Bon, L. Valentini, O. Monticelli, J.M. Kenny (2012). MODIFICA DI FILM DI GRAFENE OSSIDO TRAMITE DEPOSIZIONE DI SILSESQUIOSSANI POLIEDRICI OLIGOMERICI . In: G. Dell'Agli, G. Mascolo, M. C. Mascolo, M. Pansini. Atti XI Convegno Nazionale AIMAT. p. 49-52, -, ISBN: 9788897930037, Gaeta, 16-19 settembre 2012
3. S. Bittolo Bon, L. Valentini, O. Monticelli, J.M. Kenny (2012). Self assembly of POSS / graphene oxide hybrid nanomaterials. In: -. 7th International Conference on " Nanostructured polymers and nanocomposites". Praga (Republica Ceca), Aprile 24 - 27, 2012, ISBN: 9788085009712
4. Paola Fabbri, Elena Bassoli, Silvia Bittolo Bon, Luca Valentini (2012). Preparation and characterization of poly (butylene terephthalate) / graphene composites by in-situ polymerization of cyclic butylene terephthalate. In: VII International Conference on Nanostructured Polymers and Nanocomposites ECNP 2012. Prague (CZ), , 24-27 Aprile 2012
5. S. Bittolo Bon, L. Valentini, J.M. Kenny (2012). Preparation of alkylated graphene oxide layers for polymer composites. In: -. 5th ECNP Young Scientist Conference . Praga (Republica Ceca), Aprile 22 - 24, 2012, ISBN: 9788085009705
6. P. Fabbri, E. Bassoli, S. Bittolo Bon, L. Valentini (2012). Preparazione e Caratterizzazione di Compositi Poli(butilene tereftalato)/grafene da Polimerizzazione in-situ del monomero ciclico. In: G. Dell'Agli, G. Mascolo, M. C. Mascolo, M. Pansini. Atti XI Convegno Nazionale AIMAT. p. 221-224, ISBN: 9788897930037, Gaeta, 16-19 settembre 2012
7. P. Fabbri, L. Valentini, S. Bittolo Bon, E. Bassoli (2011). Sintesi e proprietà di compositi poli(butilene tereftalato)/grafene preparati mediante polimerizzazione del monomero ciclico.. In: AIM XX Convegno Italiano di Scienza e Tecnologia delle Macromolecole. p. 315-318, aim, ISBN: 9788895028835, TERNI, 4-8 Settembre 2011

8. P. Fabbri, M. Sangermano, L. Valentini, S. Marchi, S. Bittolo Bon (2011). Transparent and conductive graphene-polyethyleneglycol diacrylate coatings obtained by photopolymerization. In: Functional hybrid nanomaterials, nanocomposites and their applications. Strasbourg, 6-10 Marzo 2011
9. L. VALENTINI, S. BITTOLO BON, J. M. KENNY (2010). METODI DI FUNZIONALIZZAZIONE DI GRAFENE E GRAFENE-OSSIDO PER APPLICAZIONI IN NANOCOMPOSITI IBRIDI POLIMERICI. In: -. Atti del 10° Convegno Nazionale AIMAT. Capo Vaticano (VV), 5 – 8 settembre 2010, -, ISBN: 9788874581146
10. CARDINALI M., L. VALENTINI, BITTOLO BON S., BAGNIS D., VERDEJO R., LOPEZ-MANCHADO M. A, KENNY J. M. (2010). Realization of chemically derived graphene sheets/hole-trapping conducting polymer composites for the development of polymer solar cells. In: -. Advanced Hybrid Materials: stakes and concepts. Strasbourg, 7-11/06/2010
11. BITTOLO BON S., L. VALENTINI, KENNY J. M., PEPONI L., VERDEJO R., LOPEZ-MANCHADO M. A (2010). One-step electrophoretic deposition of transparent and conducting graphene-carbon nanotubes composites. In: -. Science and Technology of Nanotubes, Nanowires and Graphene. Strasbourg, 7-11/06/2010
12. Bittolo Bon S., Cardinali M., Verdejo R., Peponi L., Lopez-Manchado M.A., Valentini L., Kenny J.M. (2010). SURFACE MODIFICATION AND DEPOSITION OF LARGE-AREA CHEMICALLY MODIFIED GRAPHENE FILMS. In: -. 6th International ECNP conference on nanostructured polymers and nanocomposites. Madrid, 28-30/04/2010, Madrid: -, ISBN: 9788461398126
13. L. VALENTINI, S. BITTOLO BON, M. CARDINALI, R. VERDEJO, M. A. LOPEZ-MANCHADO, J. M. KENNY (2009). RF Glow Discharge Plasma Treatment of Graphene Sheets: a Possible Route for the Development of Nanostructured Electrodes in Organic Solar Cells. In: -. CNTComp09. Amburgo, 20-23/09/2009, p. 145-146, AMBURGO:karl schulte, ISBN: 9783941492080
14. Bittolo Bon S., Puglia D., Valentini L., Kenny J.M. (2009). Surface fluorination of graphene and carbon nanotubes in a glow discharge plasma: functionalization routes for polymer nanocomposites. In: VII Convegno Nazionale sulla Scienza e Tecnologia dei Materiali. Tirrenia, 9-12 Giugno 2009
15. L. VALENTINI, D. BAGNIS, S. BITTOLO BON, J. M. KENNY (2008). Fluidic assembly and patterning of carbon nanotube thin films. In: -. Fourth International Symposium on Nanostructured and Functional Polymer-based materials. Roma, 16-18/04/2008
16. S. BITTOLO BON, L. VALENTINI, J. M. KENNY (2007). PREPARATION OF FUNCTIONAL NANOCOMPOSITES BY IN SITU POLYMERIZATION OF METHYL METHACRYLATE ONTO CARBON NANOTUBE SHEETS. In: XVIII Convegno Italiano di Scienza e Tecnologia delle Macromolecole. PISA:AIM, Catania, 16-20 settembre 2007
17. L. VALENTINI, F. MENGONI, S. BITTOLO BON, J. M. KENNY (2007). Electrophoretically deposited carbon nanotube thin films: a route to functional nanostructures and their assembled nanocomposites. In: 3rd International Symposium on nanostructured and functional polymer-based materials and nanocomposites. FIRENZE:ECNP, Corfù, 13-15 Maggio 2007

JOB EXPERIENCE

- Dates (from – to) 15/12/2013 – present
- Name and type of organization providing education and training University of Perugia
- Title of qualification awarded **Research Fellow**
- Title of the Project Characterization of polyurethanes nanocomposites

- Dates (from – to) 15/12/2011 –14/12/2013
- Name and type of organization providing education and training University of Perugia
- Title of qualification awarded **Research Fellow**
- Title of the Project Design and implementation of flexible polymer electrodes with graphene-based nanostructured materials for applications in optoelectronics

- Dates (from – to) 01/07/2010 – 14/12/2011
- Name and type of organization providing education and training University of Perugia
- Title of qualification awarded **Research Fellow**
- Title of the Project Development and characterization of flexible polymer solar cells

- Dates (from – to) 04/05/2009 – 30/06/2010
- Name and type of organization providing education and training “Regione Umbria”
- Title of qualification awarded **Research Fellow**
- Title of the Project Development and characterization of nanostructured multifunctional hybrid polymer films

- Dates (from – to) 16/12/2008 – 08/04/2009
- Name and type of organization providing education and training University of Perugia
- Title of qualification awarded **Research Fellow**
- Title of the Project Development and analysis of nanostructured polymers

EDUCATION AND TRAINING

- Dates (from – to) November 2005 – December 2008
- Name and type of organization providing education and training University of Perugia
- Title of qualification awarded **PhD in “Materials Nanotechnologies”**
- Title of the thesis Processing and Characterization of Poly(methyl methacrylate) Based Nanocomposites for Nanostructured Surfaces

- Dates (from – to) 2005
- Name and type of organization providing education and training European Network of Excellence “ NANOFUN-POLY”, INSTM, University of Perugia
- Title of qualification awarded **II Level European Master in “Polymeric Materials Nanotechnologies”**

- Dates (from – to) October 2003 – February 2004
- Name and type of organization providing education and training “Provincia di Terni” at I.P.S.I.A. “S. Pertini”
- Title of qualification awarded Mechanical and Electrical Design Course in AutoCAD 2D (duration: 100 hours)

- Dates (from – to) 1996-2003
- Name and type of organization providing education and training University of Perugia
- Title of qualification awarded **Master Degree in Materials Engineering**
- Title of the thesis "Effect of compatibilizers on the recyclability of PET and its blends"
- Final mark: 106/110

- Dates (from – to) 1991-1996
- Name and type of organization providing education and training “G. Galilei” Scientific High School in Terni
- Title of qualification awarded **High school diploma**
- Final mark: 58/60

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE ITALIAN

Other languages	English, French									
Self-assessment	Comprehension				Oral communication				Written	
<i>European level (*)</i>	Oral		Written		Oral comprehension		Oral production			
English	C 2	Upper level	C2	Upper level	C1	Upper level	C 2	Upper level	C 2	Upper level
French	B2	Intermediate level	B2	Intermediate level	B1	Intermediate level	B1	Intermediate level	B1	Intermediate level
	<i>(*)Common European Framework of Reference for Languages</i>									

TECHNICAL SKILLS
AND COMPETENCES

Knowledge of softwares: Microsoft Word, Excel and Powerpoint; Origin 7.0, Origin 7.5 and Origin 9.0; CAD-2D.

Knowledge and use of the equipment for the preparation and characterization of materials acquired during the PhD course and during the research activities mainly related to the preparation and characterization of polymer nanocomposites films and materials:

- Scanning Electron Microscope (SEM)
- Plasma enhanced chemical vapor deposition
- Thermal evaporator
- Differential scanning calorimeter
- Rheometer
- Dinamometer
- Thermogravimetric analysis (TGA)
- UV-Vis spectrophotometer
- IR spectrophotometer
- Contact angle test

Joined to the "Ordine of Engineers" of Terni (No. 1017 Sec. A - sectors a. b. c.)

DRIVING LICENCE TYPE: B

The information contained in this Curriculum Vitae et Studiorum are made under the personal responsibility of the undersigned pursuant to art. 46 and 47 of Presidential Decree 445/2000, aware of criminal responsibility under Article. Presidential Decree No. 76 of the same, for the cases of falsification of documents and false statements.

I authorize the processing of personal data pursuant to Legislative Decree No 30 June 2003. 196 and subsequent amendments