


Curriculum Vitae MAURIZIO NATALI

Personal information 	Name	Maurizio
	Surname	Natali
	Address	Via G. Leopardi 42, 62014 Petriolo (Mc), Italy
	Telephone	(+39) 0733/550610
	Mobile	-
	E-mail	maunat@hotmail.com - maurizio.natali@unipg.it
	Date of birth	05/07/1976
	Nationality	Italian
	Mother tongue	Italian
	Skype contact	maunat1976
	Linkedin profile	https://www.linkedin.com/profile/view?id=56111276&trk=hp-identity-name
	Driving license	B

Current occupation	01/08/2016 – to date	PostDoc researcher at University of Perugia (Italy) - (Assegnista di ricerca)

Older positions	01/08/2015 – 31/07/2016	PostDoc researcher at University of Perugia (Italy) - (Assegnista di ricerca)
	01/08/2014 – 31/07/2015	PostDoc researcher at University of Perugia (Italy) - (Assegnista di ricerca)
	01/08/2013 – 31/07/2014	PostDoc researcher at University of Perugia (Italy) - (Assegnista di ricerca)
	01/08/2012 – 31/07/2013	PostDoc researcher at University of Perugia (Italy) - (Assegnista di ricerca)
	01/08/2011 – 31/07/2012	PostDoc researcher at University of Perugia (Italy) - (Assegnista di ricerca)
	15/02/2010 – 14/02/2011	PostDoc researcher at University of Perugia (Italy) - (Assegnista di ricerca)
	04/07/2006 – 30/11/2006	INSTM fellowship at University of Perugia (Italy)

Referred publications/Journal papers		
	25	M. Natali, J. Kenny, L. Torre. Science and technology of polymeric ablative materials for thermal protection systems and propulsion devices: a review. Progress in Materials Science. Volume 84, December 2016, Pages 192–275.
	24	M. Natali, M. Rallini, J. Kenny, L. Torre. Effect of Wollastonite on the ablation resistance of EPDM based elastomeric heat shielding materials for solid

		rocket motors. Polymer Degradation and Stability, doi:10.1016/j.polymdegradstab.2016.05.019
23	M. Natali, I. Puri, M. Rallini, J. Kenny, L. Torre (2015). Ablation modeling of state of the art EPDM based elastomeric heat shielding materials for solid rocket motors , Computational Materials Science, Volume 111, January 2016, Pages 460–480	
22	M. Rallini, L. Torre ¹ , J.M. Kenny, M. Natali (2015). Effect of boron carbide nanoparticles on the thermal stability of carbon/phenolic composites , DOI: 10.1002/pc.23752	
21	A. Terenzi, M. Natali, R. Petrucci, M. Rallini, L. Peponi, M. Beaumont, A. Eletsii, A. Knizhnik, B. Potapkin, J.M. Kenny (2015). Analysis and simulation of the electrical properties of CNTs/epoxy nanocomposites for high performance composite matrices , DOI: 10.1002/pc.23565.	
20	C. Yee, M. Ray, F. Tang, J. Wan, R. Tatuaca, M. Natali, J. H. Koo (2014). In Situ Ablation Recession Sensor for Ablative Materials Based on Ultraminiature Thermocouples , Journal of Spacecraft and Rockets, 51, 6, 1789-1796, 2014.	
19	M. Jaramillo, J. H. Koo, M. Natali (2014). Compressive Char Strength of Thermoplastic Polyurethane Elastomer Nanocomposites , Polymers for Advanced Technologies, Volume 25, Issue 7, pages 742–751, 2014.	
18	M. Natali, J. H. Koo, E. Allcorn, O. A. Ezekoye (2014). An in-situ ablation recession rate sensor for carbon/carbon ablatives based on commercial ultra-miniature thermocouples , Sensors and Actuators B: Chemical, Volume 196, June 2014, Pages 46–56, ISSN: 0925-4005, http://dx.doi.org/10.1016/j.snb.2014.01.022 .	
17	M. Natali, M. Rallini, D. Puglia, J. M. Kenny, L. Torre (2014). An Armadillo-Like Flexible Thermal Protection System for Inflatable Decelerators: a novel paradigm , Macromolecular Materials and Engineering, Volume 299, Issue 3, pages 379–390, March 2014, doi. 10.1002/mame201300267.	
16	M. Natali, M. Rallini, D. Puglia, J. M. Kenny, L. Torre (2013). EPDM based Heat Shielding Materials for Solid Rocket Motors: a comparative study of different fibrous reinforcements , Polymer Degradation and Stability, Volume 98, Issue 11, November 2013, Pages 2131–2139, http://dx.doi.org/10.1016/j.polymdegradstab.2013.09.006 .	
15	M. Rallini, M. Natali, J. M. Kenny, L. Torre (2013). Effect of boron carbide nanoparticles on the fire reaction and fire resistance of carbon fiber/epoxy composites , Polymer, Volume 54, Issue 19, 23 August 2013, Pages 5154–5165.	
14	E. Bafekrpour, C. Yang, M. Natali, B. Fox. (2013). Functionally graded carbon nanofiber/phenolic nanocomposites and their mechanical properties , Composites Part A: Applied Science and Manufacturing, Volume 54, November 2013, Pages 124–134.	
13	J. H. Koo, M. Natali, J. Tate, E. Allcorn (2013). Polymer nanocomposites as ablative materials — a comprehensive review , International Journal of Energetic Materials and Chemical Propulsion, 12 (2): 119–162 (2013).	
12	M. Rallini, M. Natali, M. Monti, J. M. Kenny, L. Torre (2013). Effect of alumina nanoparticles on the thermal properties of carbon fibre reinforced composites , Fire and Materials, DOI: 10.1002/fam.2184.	
11	E. K. Allcorn, M. Natali, J. H. Koo (2012). Ablation performance and	

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		characterization of thermoplastic polyurethane elastomer nanocomposites , Composites Part A. DOI: http://dx.doi.org/10.1016/j.compositesa.2012.08.017
10	M. Natali, M. Monti, D. Puglia, J. M. Kenny, L. Torre (2012). Ablative properties of carbon black and MWNT/phenolic composites: A comparative study . COMPOSITES. PART A: APPLIED SCIENCE AND MANUFACTURING, vol. 43, p. 174-182, ISSN: 1359-835X	
9	M. Monti, M. Natali, L. Torre, J. M. Kenny (2012). The alignment of single walled carbon nanotubes in an epoxy resin by applying a DC electric field . CARBON, vol. 50, p. 2453 -2464, ISSN: 0008-6223, doi: doi:10.1016/j.carbon.2012.01.067	
8	M. Natali, M. Monti, J. M. Kenny, L. Torre (2011). A nanostructured ablative bulk molding compound: Development and characterization . COMPOSITES. PART A: APPLIED SCIENCE AND MANUFACTURING, vol. 42, p. 1197-1204, ISSN: 1359-835X, doi: doi:10.1016/j.compositesa.2011.04.022 .	
7	M. Monti, M. Natali, R. Petrucci, J. M. Kenny, L. Torre (2011). Carbon Nanofibers for Strain and Impact Damage Sensing in Glass Fiber Reinforced Composites Based on an Unsaturated Polyester Resin . POLYMER COMPOSITES, vol. 32, p. 766-775, ISSN: 0272-8397, doi: DOI 10.1002/pc.21098.	
6	M. Monti, D. Puglia, M. Natali, L. Torre, J. M. Kenny (2011). Effect of carbon nanofibers on the cure kinetics of unsaturated polyester resin: Thermal and chemorheological modelling . COMPOSITES SCIENCE AND TECHNOLOGY, vol. 71, p. 1507-1516, ISSN: 0266-3538, doi: doi:10.1016/j.compscitech.2011.06.010	
5	M. Monti, M. Natali, R. Petrucci, J. M. Kenny, L. Torre (2010). Impact Damage Sensing in Glass Fiber Reinforced Composites Based on Carbon Nanotubes by Electrical Resistance Measurements . JOURNAL OF APPLIED POLYMER SCIENCE, vol. 122, p. 2829-2836, ISSN: 1097-4628, doi: DOI 10.1002/app.34412	
4	M. Natali, M. Monti, J. M. Kenny, L. Torre (2010). Synthesis and Thermal Characterization of Phenolic Resin/Silica Nanocomposites Prepared with High Shear Rate-Mixing Technique . JOURNAL OF APPLIED POLYMER SCIENCE, vol. 120, p. 2632-2640, ISSN: 1097-4628, doi: DOI 10.1002/app.33494	
3	M. Monti, A. Terenzi, M. Natali, I. Gaztelumendi, N. Markaide, J. M. Kenny, L. Torre (2009). Development of Unsaturated Polyester Matrix – Carbon Nanofibers Nanocomposites with Improved Electrical Properties . JOURNAL OF APPLIED POLYMER SCIENCE, vol. 117, p. 1658-1666, ISSN: 1097-4628, doi: DOI 10.1002/app.32042	
2	M. Natali, J. M. Kenny, L. Torre (2009). Phenolic matrix nanocomposites based on commercial grade resols: Synthesis and characterization . COMPOSITES SCIENCE AND TECHNOLOGY, vol. 70, p. 571-577, ISSN: 0266-3538, doi: doi:10.1016/j.compscitech.2009.12.005	
1	U. Marini-Bettolo-Marconi, M. Natali, G. Costantini, F. Cecconi (2006). Inelastic Takahashi hard-rod gas . THE JOURNAL OF CHEMICAL PHYSICS, vol. 124, p. 044507-1-044507-9, ISSN: 0021-9606, doi: doi: 10.1063/1.2161215	

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Chapters in Books and Encyclopedias		
	4	M. Natali, L. Torre and J. M. Kenny. Thermoset nanocomposites as ablative materials for rocket and military applications , in “Thermosets”, 2 nd edition, Edited by Qipeng Guo.
	3	M. Natali, L. Torre and J. M. Kenny (2015). Thermal Protection Systems , in “Multifunctional Composites,” Edited by Dr. Ever J. Barbero, ISBN-13: 978-1516804528.
	2	M. Natali, L. Torre (2012). Ablative materials - In: Encyclopedia of Composites. New York: Wiley, 2011, doi: 10.1002/9781118097298.weoc045.
	1	M. Monti, M. Natali, R. Petrucci, D. Puglia, A. Terenzi, L. Valentini, J.M. Kenny (2012). Advanced fiber reinforced composites based on nanocomposite matrices - In: -. Encyclopedia of Composites. New York: Wiley, doi: 10.1002/9781118097298.weoc025

AIAA Proceedings		
		Review koo - koo2017.pdf
	5	J. H. Koo, M. Natali, B. Lisco, E. R. Yao, O. A. Ezekoye (2015). A Versatile In-Situ Ablation Recession and Thermal Sensor Adaptable for Different Types of Ablatives , 56th AIAA/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference.
	4	M. Natali, J. H. Koo, E. Allcorn, Ezekoye (2013). In-situ Ablation Recession Sensor Based on Ultra-Miniature Thermocouples - Part A: 0.25mm Diameter Thermocouples , 49th AIAA/ASME/SAE/ASEE Joint Propulsion Conference.
	3	M. Jaramillo, J. H. Koo, M. Natali (2013), An Investigation of Compressive and Shear Strength of Char from Polymer Nanocomposites for Propulsion Applications , 49th AIAA/ASME/SAE/ASEE Joint Propulsion Conference.
	2	C. M. Yee, M. Ray, F. Tang, J. Wan, J. H. Koo, M. Natali (2013). Development of an In-Situ Ablation Sensor for Thermal Protection Systems , 49th AIAA/ASME/SAE/ASEE Joint Propulsion Conference.
	1	E. Allcorn, S. Robinson, D. Tschoepe, J. Koo, M. Natali (2012), Development of an Experimental Apparatus for Ablative Nanocomposites Testing , 47th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit.

SAMPE Proceedings		
	9	Koo, J.H., Natali, M., Lisco, B., Yao, E., Yee, C., Grantham, T., Schellhase, K. (2015) A novel in-situ ablation recession and thermal sensor based on ultra-fine type-K thermocouples for ablatives , CAMX 2015 - Composites and Advanced Materials Expo.
	8	M. Natali, M. Rallini, J. Kenny, L. Torre (2014). A New Concept of Flexible Thermal Protection System for Inflatable Decelerators , SAMPE Seattle 2014, June 2-5, 2014, Seattle.
	7	M. Natali, J. Koo, E. Allcorn, O.A. Ezekoye (2014). A Breaking Wire like Ablation Rate Sensor for Carbon/Carbon Composites Based on Ultra-Miniature Thermocouples , SAMPE Seattle 2014, June 2-5, 2014, Seattle.
	6	J.H. Koo, M. Natali, J. Tate, and T. Mensah (2012). A Review of Polymer

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		Nanocomposites as Advanced Thermal Protection Materials. In: SAMPE 2012 ISSE. Baltimore, MD, May 21-14, 2012.
5	M. Rallini, M. Monti, M. Natali, D. Puglia, J.M. Kenny, L. Torre (2012). Graphene nanoplatelets as conductive fillers for strain sensing in epoxy nanocomposite. In: -. SAMPE 2012. Baltimore (USA), Maggio 2012, Covina: SAMPE INTERNATIONAL, ISBN: 9781934551127.	
4	E.K. Allcorn, J.H. Koo, M. Natali (2011). Ablation Performance and Characterization of Thermoplastic Polyurethane Elastomer Nanocomposites. In: SAMPE Tech 2011, Fort Worth, Texas, October 17-20, 2011.	
3	M. Rallini, M. Monti, M. Natali, D. Puglia, J.M. Kenny, L. Torre (2011). Carbon fibre/epoxy composites with improved fire resistance properties. In: -. SAMPE Tech 2011. Fort Worth (USA), Ottobre 17-20 2011, Covina: SAMPE INTERNATIONAL, ISBN: 9781934551103.	
2	M. Natali, J.M. Kenny, L. Torre (2009). Highly loaded phenolic based nanocomposites for ablative rocket combustion chambers. In: Proceeding of 30th SAMPE EUROPE International Jubilee Conference. p. 134-139, Parigi: SAMPE EUROPE, ISBN: 9783952267776, Parigi, 31 Marzo-2 Aprile 2009.	
1	M. Natali (2008). Phenolic Matrix Nanocomposites Based On Commercial Grade Resols: Synthesis And Characterization - Schliekelmann Award, 29th International Sampe Europe Conference / Jec 2008 (Paris).	

Other proceedings and conferences		Russia, Seattle, ECNP, INFN, Stoccolma,
	25	J. H. Koo, M. Natali. In-situ Ablation Recession and Thermal Sensor Based on Ultra-fine Gage Thermocouples. 8 th Ablation Workshop, Tucson, AZ, October 5-6, 2016.
	24	L. Torre, M. Rallini, M. Natali, J. M. Kenny (2016). CONDUCTIVE PAINT BASED ON GRAPHENE NANOPATELETS AS A STRAIN SENSOR FOR FIBER REINFORCED COMPOSITES – ISCHIA ????????
	23	L. Torre, M. Natali, M. Rallini, High temperature polymer composites and nanocomposites.
	22	M. Natali, M. Rallini, J. Kenny, L. Torre (2015). Advanced characterization techniques for polymeric ablative materials. Challenges in Science and Technology of Polymer Materials, May 19-23, 2015, Bansko, Bulgaria.
	21	L. Torre, M. Natali, M. Rallini, I. Puri (2015). Development and modeling of high performance ablative composites, COMAT 2015. 7-8 May 2015, Buenos Aires, Argentina.
	20	M. Natali, M. Rallini, I. Puri, J. Kenny, L. Torre (2014). Traditional and nanostructured ablative materials: an overview of STM group capabilities. September 2014, Saint Petersburg, Russia.
	19	J. H. Koo, M. Natali, E. Allcom, and J. Tate (2012). Advanced Polymeric Composites: An Overview of Thermal Protection. In: Proc. American Society for Composites 27th Technical Conference, Arlington, TX, Oct. 1-3, 2012.
18	M. Rallini, L.M. Chiacchiarelli, M. Natali, D. Puglia, J. M. Kenny, L. Torre (2012). Graphene nanoplatelets as conductive fillers for strain sensing in epoxy nanocomposite. In: 5th Young Researchers ECNP Conference, Praga, April 2012.	

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17	J. H. Koo, M. Natali, J. Tate, and T. Mensah (2012). Polymer Nanocomposites for Advanced Ablative Materials – A Comprehensive Review . In: 9th International Symposium on Special Topics in Chemical Propulsion, Quebec City, Quebec, Canada, July 9-13, 2012.
16	M. Rallini, M. Natali, J.M. Kenny, L. Torre (2012). Thermal Barrier Properties of Carbon Fibre/Epoxy Composites based on Alumina Nanoparticles . In: XI Convegno Nazionale AIMAT, Settembre 2012.
15	Luigi Torre, Marco Monti, M. Natali, Marco Rallini, José M. Kenny (2011). Development of multifunctional advanced composites with polymer nanocomposite matrices . In: Conference Proceedings of 27th World Congress of the Polymer Processing Society, May 10-14, 2011 Marrakech, Morocco.
14	M. Rallini, M. Natali, M. Monti J. M. Kenny, L. Torre (2011). Development of carbon fiber/epoxy composites based on alumina nanoparticles . In: 4th Young Researchers ECNP Conference, Lione, November 2011.
13	M. Rallini, L.M. Chiacchiarelli, M. Monti, M. Natali, D. Puglia, J.M. Kenny, L. Torre (2011). Graphene nanoplatelets as a filler for epoxy nanocomposite . In: XX Convegno AIM, Terni, September 2011.
12	J.M. Kenny, M. Monti, M. Natali, L. Torre, L. Valentini (2011). Modelling of electrical properties of polymer matrix nanocomposites with carbon nanoparticles . Organized by Advances in Polymer based Materials and Related Technologies. In: Capri, May 29th - June 1st 2011, pag. 34.
11	M. Monti, M. Natali, L. Torre, J. M. Kenny (2010). Alignment of Single-Walled Carbon Nanotubes in an Epoxy Resin Induced by Electric Field . In: -. Proceedings of 6th International ECNP Conference on Nanostructured Polymers and Nanocomposites. MADRID, 28-30 April 2010.
10	M. Monti, M. Natali, R. Petrucci, L. Torre, J.M. Kenny (2010). Development of multifunctional advanced composites with polymer nanocomposite matrices for damage sensing applications . In: -. International Workshop on Processing of Nanostructured Ceramics, Polymers and Composites. Belgrado, Serbia, Nov. 2010.
9	D. Puglia, M. Monti, M. Natali, J. M. Kenny, L. Torre (2010). Effect of carbon nanofibers in the kinetic of cure of nanocomposites based on a polyester resin . In: -. Proceedings of 6th International ECNP Conference on Nanostructured Polymers and Nanocomposites. MADRID, 28-30 April 2010.
8	Marco Monti, M. NATALI, José M. Kenny, Luigi Torre (2010). MWNT-Doped Epoxy Matrix for Detecting Impact Damages in Fiber Reinforced Composites by Electrical Resistance Measurements . In: Times of Polymers (TOP) and Composites, Ischia (Italy) June 20-23, 2010, pag. 348-351.
7	M. Natali, M. Monti, L. Torre, J. Kenny (2010). Nanostructured Ablative Thermal Protection Systems . In: Proceedings of 6th International ECNP Conference on Nanostructured Polymers and Nanocomposites. MADRID,) 28-30 April 2010.
6	M. Monti, M. Natali, L. Torre, J.M. Kenny (2010). Nanostructured polymers for damage sensing in fiber reinforced composites . In: 3rd Young Polymer Scientists Conference. MADRID, 25-27 April 2010.
5	M. Monti, M. Natali, R. Petrucci, L. Torre, J.M. Kenny (2009). Carbon nanofibers as a tool for strain and damage sensing in glass fiber reinforced

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		composites . In: International Exhibition for Composites Technologies, Production and Processing” Compotec 2008. Marina di Carrara , October 21-23, 2009.
4	M. Monti, L. Torre, M. Natali, R. Petrucci, J. M. Kenny, N. Markaide (2009). Fiber reinforced nanocomposites based on carbon nanofibers for stress monitoring. In: V International Conference on Science and Technology of Composite Materials COMATCOMP09. San Sebastian (Spain), October 7-9 2009.	
3	M. Natali, J.M. Kenny, L. Torre (2008). Phenolic matrix nanocomposites based on commercial grade resols synthesis, characterization and comparison with microcomposites. In: AIP Conf. Proc. IV INTERNATIONAL CONFERENCE TIMES OF POLYMERS (TOP) AND COMPOSITES. Ischia, August 28, 2008 , vol. 1042, p. 190-192.	
2	Maurizio Natali, Luigi Torre, Josè M. Kenny (2009). Development of a fibre reinforced composite based on nanosilica loaded phenolic matrix for ablative thermal protection systems - Polymerfest - 40 Years Of "Polymer Research" At The University Of Palermo - Palermo, August 30-September 2, 2009.	
1	M. Natali, Josè Kenny, Luigi Torre (2008). Phenolic Matrix Nanocomposites Based On Commercial Grade Resols: Synthesis And Characterization – 2nd National Forum Of Young Researchers On Polymeric Materials And Biomaterilas; Genova, 4-5 Luglio 2008, Italy.	

Scientific assignments and contributions on European projects as a researcher		
	4	POCO - Carbon Nanotube Confinement Strategies to Develop Novel POLYmer Matrix COMposites THEME NMP-2007-2.1-1 - Nanostructured polymer-matrix composites COMPANANOCOMP - MULTISCALE COMPUTATIONAL APPROACH TO THE DESIGN OF POLYMER-MATRIX NANOCOMPOSITES THEME [NMP.2011.1.4-5] Multiscale Modelling as a Tool for Virtual Nanotechnology Experimentation (Coordinated call with Russia)
	3	COMPANANOCOMP - development of multiscale simulation methodology and software for predicting the morphology, thermal, mechanical, electrical and optical properties of soft and hard polymer matrix nanocomposites from the atomic-level characteristics of their constituent nanoparticles and macromolecules and from the processing conditions used in their preparation. NMP-2011-1.4-5 EU-Russia ‘Multiscale modelling as a tool for Virtual Nanotechnology Experimentation’. Project under grant agreement nr. 295355.
	2	FP6-NMP 515840 - FOREMOST - Fullerene-based opportunities for robust engineering: making optimised surfaces for tribology
	1	SME-2004-COLL Collective Research, INNOFOOT : Innovative Treatment of Foot Disorders

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Cooperation with industrial or academic/ government institutions/agencies		
	3	Temporary cooperation with AVIO Space on the topic of the heat shielding materials for Solid Rocket Motors. An elastomeric ablative compound for solid rocket motors with an improved ablation resistance was studied: the obtained results will be exploited in the VEga Consolidation and Evolution Preparation Programme (VECEP) .
	2	Temporary cooperation with the European Space Agency (ESA) for the development of an high temperature adhesive for carbon/carbon composites: LET SME 2009 Contract Number 22875/09/NL/VS – Carbon Based Adhesive - ESA
1	Permanent cooperation with the University of Texas at Austin (US) on: ablative materials; development of real time recession sensor techniques for ablatives; development of test beds for ablative materials (enclosed a reference letter).	

Education and training		
	15/01/2007 31/10/2009	Ph.D. in “Polymeric Material Nanotechnology” (University of Perugia) – “Development and characterization of a nanotechnology based ablative moulding compound” . My Ph.D. research dealt with the development and characterization of a nanotechnology based ablative Bulk Molding Compound (BMC). Passively cooled rocket combustion chambers can be effectively produced using glass/phenolic BMCs. To improve the ablative properties of traditional BMC formulations, micron sized minerals are used. This research pointed out the improvements of glass/phenolic BMC recipes due to synergy between nanosized silica rich particles and traditional fillers.
	01/02/2006 31/01/2007	Master in “Polymeric Materials Nanotechnology” (University of Perugia) Main topics: Block copolymers at interfaces of polymer blends; Composite materials science and technology; Life cycle analysis; Bio-nanotechnology; Dendritic macromolecules as nanomaterials; Laboratory of mechanical and rheological parameters; Branched polymer architectures; Nanostructured biocomposites; Fullerenes and carbon nanotubes; X-ray scattering; Atomic force microscopy; Crosslinking and polymer networks; Surfaces and interfaces adhesion role in nanotechnologies; Polymer materials for processing nanostructured surfaces and interfaces for applications in nanotechnologies. Title of thesis: “Nanostructured energetic materials for solid rocket propellants: a review” .
	1996 2005	Master degree in Physics (University of Camerino) Title of thesis: “One dimensional granular gas: dynamic properties of inelastic particle systems subjected to pair-interaction potentials” Final mark: 110/110 cum laude
1991 1995	High school diploma (Electronic Polytechnic School) - IPSIA Filippo Corridoni, Corridonia (MC). A low cost, high speed, 8-channel	

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	digital data acquisition system was designed and developed. Final mark: 56/60
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Other languages	English	<ul style="list-style-type: none"> • Reading skills Very good • Writing skills Very good • Verbal skills Very good • Certification CAMBRIDGE PET
	Spanish	<ul style="list-style-type: none"> • Reading skills Low • Writing skills Low • Verbal skills Low

Technical skills and competences		
	3	Knowledge of DOS, Windows 3.X, 95, 98, ME, NT Workstation, 2000 Pro, XP, 7, 8, Microsoft Office. Scientific text editor: LaTeX and MathType. Programming languages: FORTRAN 77. Data analysis: Origin 7.0, 7.5 and Kaleidagraph 4.0.
	2	From 1993 to 2000 I used to produce apparatuses based on the use of analog and digital electronics. The ASSEMBLY programming of Z80 microprocessor and ST6 microcontroller and the production of hardware based on Z80 and ST6 were also faced. Knowledge of LabVIEW language.
	1	Good capability to design and produce mechanical apparatus/devices and working metals (lathing, drilling, etc).

Other job experience		
	2010	Temporary teacher for the course: Chimica dei Polimeri e Riciclo dei materiali polimerici nell'ambito del corso CORSO cod. UM 09.02.2E.200 – UM 09.02.4L.015 per "TECNICO DI CONTROLLO PRODUZIONE E PROCESSO NEL SETTORE DELLE MATERIE PLASTICHE".
	2003 2007	I translated from English to Italian papers and books in the fields of the Economics and Political Science for the "Istituto Bruno Leoni" and for the "Centro Einaudi".
	1994 2001	I gave private lessons in the field of analog and digital electronics, mathematics, and physics.

Autorizzo il trattamento dei miei dati personali, ai sensi del D.lgs. 196 del 30 giugno 2003.