

CURRICULUM VITAE

DEBORA PUGLIA

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<http://www.researcherid.com/rid/G-8338-2011>

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https://www.researchgate.net/profile/Debora_Puglia?ev=hdr_xprf

<https://loop.frontiersin.org/people/529268/overview>



DATI PERSONALI

Stato Civile: Coniugata

Nazionalità: Italiana

Data di Nascita: 17/05/73

Luogo di Nascita: Terni

ISTRUZIONE

Dottorato di Ricerca in Ingegneria Industriale presso l'Università Degli Studi di Perugia in data 27/01/2004 con il seguente lavoro di tesi: **"Sviluppo e caratterizzazione di compositi a matrice termoindurente rinforzati con fibre di origine vegetale"** Relatore Prof. José M. Kenny, Coordinatore Prof. P. Conti.

Esame di Stato - iscrizione Albo degli Ingegneri, sezione di Terni, nr. A1112 Sez. A Sett. a, b, c in data 4/11/2005

Laurea in Ingegneria dei Materiali con votazione di **101/110** conseguita presso l'università degli studi di Perugia in data 07/07/99, con il seguente lavoro di tesi: **"Degradazione termica di resine epossidi-fenoliche"**. Relatore Prof. José M. Kenny, Correlatore Prof.ssa Analia Vazquez

Diploma di Maturità Scientifica con votazione **60/60** conseguito presso il Liceo Scientifico G. Galilei nell'anno 1993.

LINGUE STRANIERE

Buona conoscenza della lingua **Inglese**

Conoscenza base della lingua **Spagnola**

ESPERIENZE NELL'UTILIZZO DI MACCHINARI, STRUMENTI E SOFTWARE

Utilizzo delle seguenti strumentazioni di laboratorio per la caratterizzazione dei materiali:

DSC (Differential Scanning Calorimeter) – MDSC (DSC Modulato)

INSTRON Tensile Test Machine

Reometro rotazionale e Viscosimetro

DMA (Dynamical Mechanical Analysis)

Microscopio ottico

TGA (Thermo Gravimetric Analysis)

TMA (Thermo Mechanical Analyser)

FTIR - ATR

INTERESSI DI RICERCA:

- ✓ Compositi a matrice biodegradabile e non rinforzati con fibre e nanocariche di origine vegetale.
- ✓ Compositi a matrice termoindurente rinforzati con fibre e nanocariche di origine vegetale.
- ✓ Nanocompositi rinforzati con silicati e nanostrutture di carbonio

ESPERIENZE LAVORATIVE

10/07/2020 - 10/07/2029 - Abilitazione Scientifica nazionale alle funzioni di Professore di prima fascia nel settore concorsuale 09/D1 – Scienza e Tecnologia dei Materiali

07/11/2019 - presente Professore Associato - Settore Scientifico Disciplinare ING-IND/22 – Scienza e Tecnologia dei materiali

21/07/2013 - 06/11/2016: contratto di ricercatore universitario a tempo determinato, tipo a - Settore Scientifico Disciplinare ING-IND/22 – Scienza e Tecnologia dei materiali

30/01/2014- 30/01/2020 - Abilitazione Scientifica nazionale alle funzioni di Professore di seconda fascia nel settore concorsuale 09/D1 – Scienza e Tecnologia dei Materiali

01/03/2015 - 31/12/2015: Contratto di collaborazione con ECNP scarl (European Center for Nanostructured polymers) nell'ambito del progetto europeo NANOLEAP

01/03/2015 - 30/06/2015: Contratto di collaborazione con ECNP scarl (European Center for Nanostructured polymers) nell'ambito del progetto del Polo Piemontese DRAPO'

01/04/2014 - 31/12/2014: Contratto di collaborazione con ECNP scarl (European Center for Nanostructured polymers) nell'ambito del progetto del Polo Piemontese DRAPO'

01/02/2013 - 20/07/2013: Assegno di ricerca per studio di nuovi materiali e compound polimerici, nell'ambito del progetto LIFE+ Environment Policy and Governance "Revalorization of coastal algae wastes in textile nonwoven industry with applications in building noise isolation" (SEA-MATTERS)

21/09/2011 - 31/01/2013: Contratto di collaborazione con ECNP scarl (European Center for Nanostructured polymers) nell'ambito del progetto Europeo POCO (Carbon Nanotube Confinement Strategies to Develop Novel POLYmer Matrix COMposites) e del progetto Europeo ECNP GROWTH (Support to Networks of Excellence with durable integrated structures, Consolidation Of The European Centre For Nanostructured Polymers)

21/09/2010 - 20/09/2011: contratto di ricercatore universitario a tempo determinato, per le finalità del Progetto di Ricerca "Sviluppo di celle fotovoltaiche polimeriche flessibili" - settore scientifico-disciplinare ING-IND/22 – Scienza e Tecnologia dei materiali

01/07/2009 - 20/09/2010: Contratto di collaborazione con ECNP scarl (European Center for Nanostructured polymers) nell'ambito del progetto Europeo POCO Carbon Nanotube Confinement Strategies to Develop Novel POLYmer Matrix COMposites

05/01/2007 - 31/07/2008: Contratto di collaborazione con il centro PROPLAST (Centro di cultura per l'ingegneria delle materie plastiche) Strada Comunale Savonesa, 9 PST -15050 Rivalta Scrivia (AL) – Italy per la caratterizzazione di matrici termoindurenti rinforzate con particelle inorganiche fullereniche per l'ottimizzazione di superfici tribologiche

01/11/2005 - 31/01/2006: Progetto di Collaborazione industriale PSTL – (ID/DB 388) con il consorzio Italiano Universitario sulla Scienza e Tecnologia dei Materiali (INSTM) Via G. Giusti n°9, 50121 Firenze – ITALY per uno studio di fattibilità per la produzione di materiali compositi a vernici a base di nanofibre di carbonio per applicazioni nel campo della protezione alle interferenze elettromagnetiche e alle radio frequenze.

01/03/2004 - 30/06/2009: Assegnista Post-doc presso l'Università degli studi di Perugia con contratto per lo sviluppo e caratterizzazione di materiali nanocompositi, polimeri e compositi

01/04/2003 - 30/04/2003: Contratto di collaborazione con I.N.B.B. – Istituto Nazionale Biostrutture e Biosistemi, per la collaborazione al progetto di ricerca FIRB "Nanotechnologies, microtechnologies, integrated development of the materials.

01/09/1999 - 31/08/2000: Contratto di collaborazione con l'Università di Perugia per la progettazione ed il mantenimento di un database per materiali da stampaggio.

ATTIVITA' DIDATTICA

2022 - 2023: Docente Corso di Biopolimeri e Biocompositi, Corso di laurea Magistrale in Ingegneria dei materiali e dei Processi Sostenibili

2015 - presente: Docente Corso di Scienza e Tecnologia dei Materiali, Modulo B, Corso di laurea in Ingegneria Industriale triennale

2017 - presente: Docente Corso di Scienza e Tecnologia dei Materiali, Corso di laurea in Design (triennale)

2013-2015: Assistente al corso di Laboratorio Materiali (Corso di laurea in Ingegneria Industriale e Corso di laurea Magistrale in ingegneria Industriale)

Maggio 2013: Docente per il Corso di Caratterizzazione materiali polimerici nell'ambito del Master universitario internazionale di II livello in "Chimica verde: produzioni chimiche e nuovi materiali da fonti rinnovabili", istituito presso il Dipartimento di Chimica e Farmacia dell'Università di Sassari.

2001 - 2012: Assistente al corso di Tecnologia dei Polimeri del Corso di Laurea di Primo Livello presso l'Università degli Studi di Perugia – CdL in Ingegneria dei Materiali

2005 - 2010: Assistente al corso di Tecnologia dei Polimeri del Corso di Laurea di Secondo Livello presso l'Università degli Studi di Perugia – CdL Specialistica in Ingegneria dei Materiali

2003-2004: Docente per il corso di Tecnologia dei Polimeri, in convenzione con l'Ispettorato Logistico dell'Esercito Italiano, al Master di II° Livello in "Scienza e Tecnologia dei Materiali".

Marzo 2008: Incarico di docenza relativo al "Corso per estrusorista" COD. TR 03.03.12.902 con APIFORM

2004 – 2008: – Docente a contratto per il corso di Biomateriali – CdL Specialistica in Ingegneria dei Materiali presso l'Università degli Studi di Perugia

2007 – 2011: – Docente a contratto per il corso di Materiali per Biotecnologie I – CdL Specialistica in Ingegneria dei Materiali presso l'Università degli Studi di Perugia

2007 – 2011: – Docente a contratto per il corso di Materiali per Biotecnologie II – CdL Specialistica in Ingegneria dei Materiali presso l'Università degli Studi di Perugia

2005 – 2008: Docenza relativa al modulo "Bionanotecnologie" per Master Europeo di 2° Livello in Nanotecnologie dei materiali polimerici

01.02.2006 - Contratto per docenza relativa al modulo Chimica dei Polimeri nell'ambito del corso "Esperto in nanotecnologie dei materiali polimerici per l'industria chimica" modulo FAD. Applicazione dei materiali nanostrutturati – Università degli Studi di Perugia

05.11.2007 - Contratto per docenza relativa al modulo 4 "Chimica dei Polimeri e loro caratterizzazione" e Mod. 7 "Degradazione dei polimeri" nell'ambito del corso "Esperto sulla scienza e tecnologia delle materie plastiche e nanocompositi" cod. UM 07.03.33.004 - UM 07.03.13.003 in collaborazione con SFCU – Sistemi Formativi Confindustria Umbria

26.10.2009 - Contratto per docenza relativa al modulo 4 "Chimica dei Polimeri e loro caratterizzazioni" e Mod. 7 "Principali sistemi di processo e riciclo dei polimeri" nell'ambito del corso titolo "Tecnico di controllo produzione e processo nel settore delle materie plastiche" Cod. UM 09022E200 – UM 09024L015 in collaborazione con SFCU – Sistemi Formativi Confindustria Umbria

ATTIVITA' DI RICERCA, COORDINAMENTO E CONSULENZA TECNICA

- Coordinamento tecnico in progetti europei di FP5, FP6, FP7, Horizon2020 (2000-2022):

- FP6-2002-SME-1: Intelligent and Multifunctional Rubber Compounds/Adhesives for the Shoe Industry (INNORUBBER)

- FP5-Competitive and Sustainable Growth 1999: ECOFINA-ECOEFFICIENT TECHNOLOGIES AND PRODUCTS BASED ON NATURAL FIBER COMPOSITES

SME-2004-COLL Collective Research, INNOFOOT: Innovative Treatment of Foot Disorders

- FP6 STREP Contract no.: 505637-1 - NANOFIRE Environmentally friendly multifunctional fire retardant polymer hybrids and nanocomposite

- FP6-NMP 500361 NANOSTRUCTURED AND FUNCTIONAL POLYMER-BASED MATERIALS AND NANOCOMPOSITES - Nanostructured and Functional Polymer-based Materials and Nanocomposites

- FP6-NMP 515840 - Fullerene-based opportunities for robust engineering: making optimised surfaces for tribology

- FP7-NMP-2011-CSA: ECNP-GROWTH: Consolidation of the European Centre for Nanostructured Polymers
- FP7-NMP-2007-2.1-1 POCO - Carbon Nanotube Confinement Strategies to Develop Novel Polymer Matrix COMposites THEME - Nanostructured polymer-matrix composites
- FP7-NMP.2011.1.4-5 COMPANOCOMP - MULTISCALE COMPUTATIONAL APPROACH TO THE DESIGN OF POLYMER-MATRIX NANOCOMPOSITES THEME- Multiscale Modelling as a Tool for Virtual Nanotechnology Experimentation (Coordinated call with Russia)
- POR-FESR 2007/2013 - ASSE I - INNOVAZIONE E TRANSIZIONE PRODUTTIVA Attività I.1.3 Innovazione e P.M.I. – Aiuti ai soggetti aggregati ai poli di innovazione, (progetti Polo nuovi Materiali Regione Piemonte (MATERIA 1, MATERIA 2, SMARTCONCRETE, THERMOCHROME, DRAPPO', OLILED, NewFunThermoForm)
- HORIZON2020, Project reference: 646397, funded under: H2020-EU.2.1.2., H2020-EU.2.1.2.4. "Nanocomposite for building constructions and civil infrastructures: European network pilot production line to promote industrial application cases."
- Partecipazione allo staff tecnico di riferimento per progetto ESA LET SME 2009 Contract Number 22875/09/NL/VS – Carbon Based Adhesive
- Collaborazione per attività di ricerca e consulenza con aziende del territorio nell'ambito di progetti regionali:
 - Progetti Vision (CF, Collorosso, CONART, Umbria Plasfor)
 - Progetti industriali e consulenza per il processo di materiali polimerici (CF, Collorosso, BRAI Cost, Meraklon, Novamont, Bayer Sheet Europe, Tarkett Sommer, Meccanotecnica Umbra, Alluminio Spoleto, Polycart)
 - Consulenza per aziende facenti parte del tessuto industriale extra-regionale (Proplast, CRF, CSM)

VALUTAZIONE PROGETTI INTERNAZIONALI

- 2016, National Science Centre (Narodowe Centrum Nauki) - Funding scheme PRELUDIUM, Poland
- 2017, 2018, Austrian Science Fund (FWF)
- 2017, FONDECYT Regular 2018 grant competition research project evaluator, Chilean National Science and Technology Commission (CONICYT - Chile)
- 2017, French National research Agency (ANR), CES 21 "Food and Food Systems"
- 2019, Pole of Innovation Grant Scheme (PoIGS): Pole of Innovation for Agriculture-Sustainable Materials for Composite Applications - Mauritius Research Council
- 2019, Wellcome Trust DBT India Alliance. Fellowship
- 2019, Research project evaluator L'Oréal-UNESCO For Women in Science Sub-Saharan Africa Regional program
- 2022, Cyprus Research and Innovation Foundation (RIF), RESTART 2016-2020 Programmes for Research, Technological Development and Innovation

RESPONSABILITA' SCIENTIFICA PROGETTI NAZIONALI

- BIT3G - Third Generation Biorefinery: National Technology Cluster of Green Chemistry SPRING – Sustainable Processes and Resources for Innovation and National Growth (2014-2017)
- CARIT (Fondazione Cassa di Risparmio di Terni)- Engineering, characterization and functional properties of biodegradable stretch films for the food packaging sector". food packaging sector (2015-2017)
- CARIT (Fondazione Cassa di Risparmio di Terni) - Design and sustainable development of multifunctional biodegradable films for the food packaging sector with antibacterial and/or anti-bacterial properties induced by natural bioactive molecules (2016-2017)
- CARIT (Fondazione Cassa di Risparmio di Terni)- -La complessità dei processi decisionali alla luce della crisi sanitaria e ambientale (2021-2023)

INTERNATIONAL GRANTS (PI)

- 2020: 4BIOLIVE Project (Production of Biostimulants, Biofertilizers, Biopolymers and Bioenergy from OLIVE-oil chain residues and by-products), PRIMA (Partnership for Research and Innovation in the Mediterranean Area), Section 2 Call multi-topics 2020, Budget: 1022000 €
- CONICET-CUIA bilateral cooperation, 2020-2021 edition (cooperation project for promotion of exchange and researchers mobility between Italy and Argentina), Budget: 10000 €

ESPERIENZA DI ORGANIZZAZIONE DI EVENTI SCIENTIFICI

- Membro del Comitato Organizzatore del 5° Convegno AIMAT, Spoleto, Luglio 2000
- Membro del comitato organizzatore per "International Conferences on Nanostructured Polymers and Nanocomposites": Roma, Aprile 2008; Parigi, Aprile 2009; Madrid, Aprile 2010; Praga, Aprile 2012; Roma, Settembre 2016; San Sebastian, Ottobre 2018
- Membro del comitato organizzatore per "Short Course and Young Researcher Conferences on Nanostructured Polymers and Nanocomposites": Roma, Aprile 2008; Parigi, Aprile 2009; Madrid, Aprile 2010; Praga, Aprile 2012.
- Membro del comitato organizzatore per 4th International Conference on Biodegradable Polymers and Sustainable Composites (BIOPOL-2013)
- Membro del comitato organizzatore per 5th International Conference on Biodegradable Polymers and Sustainable Composites (BIOPOL-2015)
- Membro del comitato organizzatore per 6th International Conference on Biodegradable Polymers and Sustainable Composites (BIOPOL-2017)
- Membro del comitato organizzatore per 7th International Conference on Biodegradable Polymers and Sustainable Composites (BIOPOL-2019)

VALUTAZIONE TESI DI DOTTORATO INTERNAZIONALI

2019, Valorisation of biorefinery-derived humins: Towards the development of sustainable thermosets and composites, Candidate Anna SANGREGORIO, Institut de Chimie de Nice, Université Côte d'Azur, Advisor: Nicolas Sbirazzuoli

2017 - Miryam Criado González, Layer-by-layer assembly of natural polymers for biomedical applications, Facultad de Ciencias Químicas/ Dpto. Physical Chemistry, Universidad Complutense De Madrid

2015 - Amalia I. Cano Embuena, Universidad Politécnica De Valencia, Different strategies to improve the functionality of biodegradable films based on starch and other polymers

2014 - Marina Patricia Arrieta, Universidad Politécnica De Valencia "Films De PLA Y PLA-PHB Plastificados Para Su Aplicación En En Envases De Alimentos. Caracterización Y Análisis De Los Procesos De Degradación"

2012- Natacha Bitinis, Consejo Superior De Investigaciones Científicas, Instituto De Ciencia Y Tecnología De Polímeros, Desarrollo De Nuevos Nanocompuestos Biodegradables Basados En Mezclas De Ácido Poliláctico Y Caucho Natural,

2011 - Erlantz Lizundia Fernandez, Novel Poly (L-Lactide) / Carbon Nanotube. Biocomposites: Phase Structure And Properties, University Of The Basque, Country (EHU-UPV)

PARTECIPAZIONE A AZIONI INTEGRATE E PROGRAMMI INTERNAZIONALI

- Partecipazione a Azioni integrate Italia-Spagna
- Partecipazione a collaborazioni bilaterali (2012-2022) CNR-CONICET (Argentina) .
- Partecipazione al programma di collaborazione Italia - India (2005 -2007) tra MAE e DST (Indian Department of Science & Technology)
- Partecipazione al programma MIUR Italia India (2007-2009) - Grants for Young Researchers in the field on Nanoscience and Nanotechnology
- Partecipazione International Post Doctoral Research Fellowship Programme (TÜBİTAK) Esra Evrim YALÇINKAYA - 02/09/2013-02/01/2014 - Synthesis and Characterization of PLA/Clay/CNC Bio-nanocomposites via solvent casting method

- Partecipazione al programma MAE – MYNCYT (2014-2016) Area Nanotecnologia - Preparazione e caratterizzazione di poliuretani da fonti rinnovabili e di nanocompositi con rinforzo di nanocellulose

QUALIFICHE PROFESSIONALI E TRASFERIMENTO TECNOLOGICO

2003: Rilascio attestato di qualifica professionale da ISIRIM scarl, per “Esperta nel management dell’Innovazione” Corso N. TR 010351001 Obiettivo 3 Misura E1 (Promozione della partecipazione femminile al mercato del lavoro) Azione 1

2007 - Partecipazione come MDP alla costituzione (nel 2007) della M.I.T.E.S. srl - (Materials for Information, Traceability, Encryption and Security, Spin-off accademico presso l’Università degli Studi di Perugia per la produzione di M.P.I.D (Materiali Plastici Informativi Decodificabili).

2003- 2017:- Socio fondatore e R&D developer della MDP Materials Design and Processing srl Loc. Pentima Bassa 21 05100 Terni, azienda che si occupa di trasferimento tecnologico, ricerca, sviluppo di tecnologie e progettazione nel settore dei materiali, dei compositi e dei nanocompositi. Partecipazione allo staff tecnico di riferimento per i seguenti progetti europei con partecipazione delle MDP srl:

FP6-NMP - MULTIHYBRIDS - Project Reference: 26685 -Innovative sensor-based processing technology of nanostructured multifunctional hybrids and composites

Action Line: NMP-2004-3.4.4.1 Multifunctional material-based factory of the future, Durata: 01.01.2007 – 31.12.2010

FP6-NMP NAPOLYDE- Control and smart devices - Project Reference: 515846 - Action Line: NMP-2003-3.4.3.1-2 New production technologies for high added-value products, exploiting and using nano-scale precision engineering techniques, Durata: 01.04.2005 – 31.03.2009

NMP-FP7-2010-1.2-3 - NEAT Nanoparticle Embedded in Alloy Thermoelectrics - Thermoelectric energy converters based on nanotechnology, Durata: 01.04.2011 – 31.03.2014

PARTECIPAZIONE A CONFERENZE

1) Workshop on Polymer Analysis, degradation and Stabilisation Alicante, 29 September – 1 October 1999. Partecipazione: Poster Titolo: “Degradation behaviour of resol type phenolic - epoxy blends: thermal degradation and fire resistance”)

2) Simposio Argentino de Polímeros, SAP99, Los Cocos, Córdoba nov.1999 Partecipazione: Poster Titolo: “Relación entre la degradación termica y la estructura de los Resoles”

3) Simposio Argentino de Polímeros, SAP99, Los Cocos, Córdoba nov.1999 Partecipazione: Poster Titolo: “Resistencia al Fuego de resoles con Distinta relación Molar Formaldehido/fenol”

4) “XIX CONVEGNO INTERREGIONALE TUMA 2000” Montesilvano (PE), 25-27 May 2000 Partecipazione: Poster Titolo: “Degradazione termica di miscele di resine fenoliche e resine epossidiche”

5) “5° CONGRESSO NAZIONALE AIMAT” Spoleto, 17-21 July 2000 Partecipazione: Organizing Committee and poster Titolo: “Comportamento degradativo di miscele epossi – fenoliche: degradazione termica e resistenza al fuoco”

6) MoDeSt 2000, Modification, Degradation and Stabilization of Polymers Palermo, 3-7 September 2000 Partecipazione: Poster Titolo: “Degradation behaviour of epoxy – resol blends”

7) SLAP 2000 VII Simposio Latinoamericano de Polímeros Havana, 20-24 November 2000 Partecipazione: Poster Titolo: “Desarrollo de mezclas de resinas epoxi con plastisoles de PVC”

8) “XX CONVEGNO INTERREGIONALE TUMA 2001” Pisa, 24-25 May 2001 Partecipazione: Oral presentation Titolo: “Compositi a matrice termoindurente rinforzati con fibre di lino: confronto con il vetro”

9) “III CONVEGNO NAZIONALE INSTM” Trento, 18-20 Giugno 2001 Partecipazione: Poster

Titolo: "A comparison of the effects of flax and glass fibers on the mechanical properties of thermosetting matrix composites"

10) "RASSEGNA INTERNAZIONALE DELLA CHIMICA - RICH-MAC 2001" Milan, Italy, 2-6 October 2001 **Partecipazione:** Presentation posters of STM research group.

11) "COMAT 2001 - INTERNATIONAL CONFERENCE ON SCIENCE AND TECHNOLOGY OF COMPOSITE MATERIALS" Mar del Plata, Argentina, 10-12 December 2001 **Partecipazione:** Poster, **Titolo:** "ECOFINA": Ecoefficient Technologies and Products Based on Natural Fiber Composites, D. Puglia, J. Biagiotti, A. Vere Simmonds, A. Rubio, J.M. Kenny.

12) "SAMPE EUROPE CONFERENCE - 23RD INTERNATIONAL CONFERENCE AND TUTORIALS" Paris expo - Port de Versailles, Paris, April 9th -11th, 2002.

Partecipazione : Poster

Titolo1: A Systematic Investigation on the Influence of Natural Fiber Treatments on the Final Behaviour of their Polymeric Matrix Composites. PART I: Effect of Treatment on the Fiber Properties.

Titolo2: A Systematic Investigation on the Influence of Natural Fiber Treatments on the Final Behaviour of their Polymeric Matrix Composites. PART II: Analysis of Composite Properties.

Autori: J. Biagiotti, D. Puglia, L. Torre A. Arbelaiz, G. Cantero, S. Arbizu, R. Llano-Ponte, Iñaki Mondragon , José M. Kenny.

13) "ECCM-10 - 10TH EUROPEAN CONFERENCE ON COMPOSITE MATERIALS" Old St. Jan Conference Centre, Brugge, Belgium, June 3-7, 2002 **Titolo:** "ECOFINA": Ecoefficient Technologies and Products Based on Natural Fiber Composites.. Autori: D. Puglia, J. Biagiotti and J.M. Kenny.

14) "6° CONGRESSO NAZIONALE AIMAT" Modena, Italy, September 8-11, 2002 **Titolo:** "Influenza di vari trattamenti chimici di compatibilizzazione fibra matrice sulle caratteristiche termiche e meccaniche della fibra di lino" Autori: D. Puglia, J. M. Kenny, G. Cantero, Iñaki Mondragon

15) "MODEST 2002" Budapest, Hungary, 30 June - 4 July 2002 **Titolo:** "Thermal degradation of natural fibers and fully biodegradable polymer composites" Autori: D. Puglia, A. Tomassucci, J. M. Kenny

16) "XXI CONVEGNO INTERREGIONALE TUMA 2002" Urbino, Italy, July 15-17, 2002 Autori: D. Puglia, L. Valentini, J. M. Kenny **Titolo:** "Analisi della Reazione di Cura di Compositi Resina Epossidica/Nanotubi di Carbonio attraverso Analisi Termica e Spettroscopia Raman"

17) "DIAMOND 2002" 13th European Conference on Diamond, Diamond like Materials, carbon Nanotubes, Nitrides and Silicon Carbide Granada, Spain, 8-13 September 2002 **Titolo:** "Analysis of the Cure Reaction of Carbon Nanotubes/Epoxy Resin Composites Through Thermal Analysis and Raman Spectroscopy"

18) "EU Forum in Nanoscience Technology" Beijing, P.R China. December 2002 Autori: J.M. Kenny, L. Torre, L. Valentini, J. Biagiotti and D. Puglia **Titolo:** Processing, Structure and Properties of Polymer Matrix Nanocomposites for Industrial Applications.

19) "7th INTERNATIONAL CONFERENCE ON WOODFIBER-PLASTIC COMPOSITES" Madison, Wisconsin, USA, May 19-20, 2003 Autori: : D.Puglia, A. Tomassucci, J.M. Kenny **Titolo;** Mechanical And Thermal Properties of Biodegradable Composites Based on Mater-Bi® and Flax Cellulose Pulp

20) "SAMPE Europe Conference - 24nd INTERNATIONAL CONFERENCE AND FORUMS" Paris expo - Port de Versailles, Paris, April 1th -3rd, 2003. Autori: : L. Valentini, J. Biagiotti, D. Puglia, J. M. Kenny **Titolo:** Effect of Nanotube Inclusions on Polymer Morphology in Composite Systems.

21) IV Convegno Nazionale sulla Scienza e Tecnologia dei Materiali Ischia Porto (NA) 29 June - 2 July 2003 D. Puglia, A. Tomassucci and José M. Kenny **Titolo:** Poster Analysis of the cure

reaction of epoxy matrix/SWNTS composites through thermal analysis and impedance spectroscopy

22) EcoComp 2003- 2nd International Conference on Eco-Composites D. Puglia, A. Tomassucci and José M. Kenny , Titolo: "Mechanical And Thermal Properties of Biodegradable Composites Based on Mater-Bi® and Flax Cellulose Pulp " Queen Mary, University of London, London, UK, 1-2 September 2003

23) "International Workshop on Thermoplastic Matrix Composites 2003" Club Bellavista, Gallipoli, Lecce ITALY. September 11-12, 2003. Autori: J. Biagiotti, D. Puglia, J. M. Kenny. Titolo: Improvement of thermal and Mechanical Properties of Vegetable Fibres Based Composites by a Physical Treatment

24) "1st International Workshop on Natural Fibre Composites" Hotel Continental Terme, Ischia (Italy) 19-21 October 2003 Partecipazione: Poster Autori: T. Isidori, S. Borsini, D. Puglia, A.V. Simmonds and José M. Kenny Titolo: Optimization Of Processing And Evaluation Of Specific Properties Of Acrylic And Vinylester Matrix Composites Reinforced With Flax Fibres

25) "1st Workshop of the Network of Excellence "NANOFUN-POLY" in the Areas of Excellence "Applications" and "Nanostructure-Property Relationships" Madrid, CSIC 14-15 March 2005 Partecipazione: Poster Autori: Debora Puglia, Luca Valentini, Ilaria Armentano, José M. Kenny Titolo: AMINO-FUNCTIONALIZED CARBON NANOTUBES FOR BINDING TO POLYMERS - Analysis of the cure reaction of epoxy matrix / fluorine functionalized SWNTs

26) "XVII Convegno Nazionale dell'Associazione Italiana di Scienza e Tecnologia delle Macromolecole" Naples, 11-15 September 2005, Partecipazione: Poster, Autori: Debora Puglia, Luca Valentini, Ilaria Armentano, José M. Kenny, Titolo: AMINO-FUNCTIONALIZED CARBON NANOTUBES FOR BINDING TO POLYMERS

28) "1° Forum Nazionale dei Giovani Ricercatori su Materiali Polimerici e Biomateriali" Modena, 18-20 September 2006 Partecipazione: Poster Autori: Debora Puglia, Luca Valentini, Ilaria Armentano, José M. Kenny Titolo: Amino-Functionalized Carbon Nanotubes For Binding To Polymers

29) "Workshop on Nanofun Research Internal Projects" Donostia San Sebastian, Spain 15-16 September 2006 Partecipazione: Poster Autori: Debora Puglia, Luca Valentini, Ilaria Armentano, José M. Kenny Titolo: Effect Of Amino-Functionalized Carbon Nanotubes On Thermal Stability Of Epoxy Systems

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Autori: M.G. Sajeev, D. Puglia, J.M. Kenny, S. Thomas

Titolo: Effect of introduction of SBS Triblock Copolymers on the final morphology and properties of an Epoxy/DDM System

Autori: P. Vijayan. D. Puglia, J.M. Kenny, S. Thomas

Titolo: Effect of introduction of nanoclay on morphology and thermo mechanical property of epoxy CTBN blends

31) "6th International ECNP Conference on Nanostructured Polymers and Nanocomposites" Madrid (Spain) 28-30 April 2010 Partecipazione: Poster Autori: D. Puglia, M. Monti, M. Natali, J. M. Kenny, L. Torre Titolo: Effect of carbon nanofibers in the kinetic of cure of nanocomposites based on a polyester resin

32) "ECCM 14" Budapest 7-10 June 2010 I.M. De Rosa, A. Iannoni, J.M. Kenny, D. Puglia, C. Santulli, F. Sarasini, A. Terenzi, Environmentally friendly poly(lactic acid)/phormium tenax composite: thermal and mechanical characterization

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2) E. Fortunati, M. Monti, D. Puglia, C. Santulli, J. M. Kenny, L. Torre Nanocellulose extraction from Phormium Tenax fibres

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35) International SAMPE Technical Conference "SAMPE 2012 Baltimore, MD" 2012 SAMPE International Symposium and Exhibition - Emerging Opportunities: Materials and Process Solutions; Baltimore, MD; Baltimore, 21-24 May, 2012 Multifunctional Materials I

L. Torre, M. Rallini, M. Natali, M. Monti, D. Puglia, J.M. Kenny, Graphene Nanoplatelets as Conductive Fillers for Strain Sensing in Epoxy Nanocomposite

36) "ECCM 15" June 24-28, 2012, Venice - Italy

1) R. Petrucci, E. Nisini, D. Ghelli, C.Santulli, D. Puglia, F. Sarasini, G. Minak, J.M. Kenny, Mechanical and impact characterisation of hybrid composite laminates based on flax, hemp, basalt and glass fibres produced by vacuum infusion

2) Mariano PRACELLA, Md. Minhaz-Ul HAQUE, Debora PUGLIA, Vera ALVAREZ, Preparation and characterization of PLA nanocomposites with nanocellulose filled PVAc

3) F. Sarasini C.Santulli, D. Puglia, T. Valente, J. Kenny, Thermal and mechanical behaviour of phormium tenax reinforced polypropylene composites

4) F.R. Lamastra, D. Puglia, M. Monti, A. Vella, L. Peponi, J. M. Kenny, F. Nanni Preparation and characterisation of Poly(ϵ -caprolactone) reinforced with MWCNTs and GNPs loaded aligned electrospun PMMA fibre mats

37) 4th Workshop: Green Chemistry and Nanotechnologies in Polymer Chemistry, 4-6 September 2013 – Pisa, Italy

1) M. Pracella, M.-Ul Haque, N. Barbani, D. Puglia, V. Alvarez

Preparation and characterization of biodegradable polymer blend composites containing cellulose nanocrystals

2) M. Pracella, Md. Minhaz-Ul Haque, D. Puglia, E. Fortunati, J.M. Kenny

Biodegradation of binary and ternary composites of PLA and PLA/Ethylene-co-vinyl acetate blends with cellulose microfibers

38) IX CONVEGNO NAZIONALE INSTM SULLA SCIENZA E TECNOLOGIA DEI MATERIALI Bari, 30 Giugno – 3 Luglio 2013, Optimized extraction of cellulose nanocrystal from pristine and carded hemp fibres, F. Luzi, E. Fortunati, D. Puglia, C. Santulli, L. Torre, J. M. Kenny

39) BIOPOL2013 Rome, 1-3 October 2013 D.Puglia, E. Fortunati, F. Luzi, L. Torre, C. Santulli, J.M. Kenny Effect of cellulose nanocrystals extracted from phormium leaves on the final properties of limonene modified PLA films

40) International Workshop "Eco-sustainable Food Packaging Based on Polymer Nanomaterials" 26-28 February 2014 CNR Rome Italy, E. Fortunati, D. Puglia, F. Luzi, F. Dominici, C. Santulli, L. Torre, J.M. Kenny "Combined Effect of Cellulose Nanocrystals Extracted from Phormium Tenax Leaves and Limonene on the Properties of PLA Films"

41) XII CONVEGNO NAZIONALE AIMAT Lecce, 21 - 24 Settembre 2014 L. Torre, E. Fortunati, F. Luzi, D. Puglia, R. Petrucci, J.M. Kenny "Nanocompositi di acido polilattico rinforzati con nanocristalli di cellulosa estratti da posidonia oceanica: proprietà funzionali e biodegradazione"

42) EPF 2015, European Polymer Congress Dresda, 21 – 26 Giugno, 2015 Oral Presentation: Fully biodegradable poly(lactic) acid films based on cellulose and lignin nanoparticles: a comprehensive study

43) BIOPOL 2015, San Sebastian (Spain), 6-9 Ottobre 2015, Oral presentation: Glycidyl methacrylate (GMA) grafting onto poly(lactic) acid films: effect of lignin nanoparticles and masterbatch process

Poster presentations:

1) Structure and properties of biodegradable wheat gluten biocomposites containing lignin nanoparticles

2) Effect of processing conditions and lignin content on crystallization and mechanical behavior of lignin nanoparticles/poly(lactic acid) bionanocomposites

44) BIOPOLI2015 II Workshop Polímeros Biodegradables y Biocompuestos, III Workshop of the project BIOPURFIL, Bio-based Polyurethane Composites with Natural Fillers, Novembre 11-13, 2015 - Buenos Aires, Argentina

1) A. Cordero, J. Amalvy, L. M. Chiacchiarelli, E. Fortunati, D. Puglia, J. Kenny Preparation of polyurethane using non-isocyanate synthesis and their composites with cellulose nanocrystals

2) A. Cordero, P. Peruzzo, J. Amalvy, L. M. Chiacchiarelli, D. Puglia, J. Kenny Preparation of castor oil based polyurethane and their composites with cellulose nanocrystals

3) Weijun Yang, Franco Dominici, Elena Fortunati, Debora Puglia, Jose M Kenny Glycidyl methacrylate (GMA) grafting onto poly(lactic) acid films: effect of lignin nanoparticles and masterbatch process

45) 2nd ICNF - From Nature to Market, Azores/Portugal, 27-29 April 2015, Fabrizio Sarasini, Jacopo Tirillò, Teodoro Valente, Carlo Santulli, Debora Puglia, Josè Maria Kenny, Polycaprolactone reinforced with natural fibres as potential biocomposite for orthoses

46) COSINTERRA 2016, Bastia Umbra, 30 SETTEMBRE 2016, Luigi Torre, Elena Fortunati, Debora Puglia Rivalorizzazione di fibre vegetali ed animali in prodotti polimerici ad alto valore aggiunto,

47) AIMAT 2016, XIII Convegno Nazionale AIMAT Ischia Porto 13-15 luglio 2016

Yang W, Fortunati E, Balestra GM, Kenny JM, Puglia D, Torre L, Effect Of Cellulose And Lignin Nanoparticles On Disintegration, Antimicrobial And Antioxidant Properties Of PLA Active Films

48) NanoMaterials and BioMaterials for the next Decade Pantelleria (Sicily) July, 5 - 7, 2017 Cellulose nanocrystals from pruning residues combined with carvacrol in PVA_CH active films for sustainable packaging applications, E. Fortunati, D. Puglia, F. Luzi, L. Torre

49) XXXV Convegno Nazionale della Società Italiana di Chimica Agraria, La ricerca in Chimica Agraria: integrazione dello studio dei sistemi suolo, pianta e ambiente, SICA 2017 Udine, 11-13 settembre 2017

Production and characterization of novel PLA_PBS based bionanocomposites reinforced with cellulose nanocrystals extracted from Carmagnola hemp fibres for food packaging applications E. Fortunati¹, F. Luzi¹, D. Puglia¹, D. Pezzolla¹, G. Gigliotti¹, L. Torre¹

50) 3rd ICNF - Advanced Materials for a Greener World Braga/Portugal, 21-23 June 2017

Coffe By-Product As A Low Cost Filler For New Biodegradable Composites, Fabrizio Sarasini¹, Jacopo Tirillò, Antonio Zuorro, Roberto Lavecchia, Gianluca Maffei, Teodoro Valente, Debora Puglia, Franco Dominici, Luigi Torre

51) JOINT EVENT ON 5th International Conference on Bioplastics and 6th World Congress on Biopolymers, September 07-09, 2017 | Paris, France, Developing thermoplastic films from wheat flours with different proportions of finely grinded bran, Paolo Benincasa, Franco Dominici, Debora Puglia

52) CIRIAF2017 Rocca di Sant'Apollinare - Marsciano (PG) - 6/7 aprile 2017, Progettazione circolare ed analisi di ciclo di vita, Elena Fortunati, Debora Puglia, Luigi Torre "Rivalorizzazione di fibre vegetali in prodotti polimerici ad alto valore aggiunto e basso impatto ambientale

53) MATBIM2017, 4th international meeting on Material/Bioproduct Interaction, Porto, 26th to 28th April 2017, E. Fortunati, D.Puglia, F. Luzi, F. Dominici, L. Torre, Cellulose Nanocrystals From natural Sources in Nanocomposite Approach: special focus on Phormium

Tenax Leaves Revalorization as Nanostructured Reinforced Phases in Plasticized PLA based films

54) BIOPOL2017 Mons, 11-13 September 2017, Debora Puglia, Elena Fortunati, Andrea Terenzi, Antonio Iannoni, Josè Maria Kenny, Luigi Torre. 1. Stretchable PLA-PBS Based Films Plasticized With Novel Green Route: Processing Conditions, Thermal And Mechanical Responses 2. Weijun Yang, Marco Rallini, De-Yi Wang, Daqian Gao, Franco Dominici, Luigi Torre, Jose M. Kenny, Debora Puglia. Role Of Lignin Nanoparticles In UV Resistance, Thermal And Mechanical Performance Of PMMA Nanocomposites Prepared By A Combined Free-Radical Graft Polymerization/Masterbatch Procedure

55) BIOPOL2019, Stockholm, 17th-19th JUNE 2019, Keynote Lecture 7. Debora Puglia (University of Perugia, Terni, Italy). "Lignin based nanocomposites"

Poster presentations:

- W. Yang, E. Fortunati, F. Bertoglio, J.S. Owczarek, G. Bruni, M. Kozanecki, J.M. Kenny, L. Torre, L. Visai, D. Puglia. Polyvinyl Alcohol/Chitosan Hydrogels With Enhanced Antioxidant And Antibacterial Properties Induced By Lignin Nanoparticles

- F. Luzi, D. Puglia, E. Pannucci, R. Bernini, L. Santi, L. Torre. Quercetin And Gallic Acid Pva Films: Structural And Functional Properties For Packaging Applications

- Michelina Soccio, Silvia Quattrosoldi, Franco Dominici, Francesca Luzi, Nadia Lotti, Debora Puglia. PBS-Based Copolymer As Compatibilizer In Thermoplastic Flour/Poly(Butylene Succinate) Blends

56) BIOPOL2022, Alicante, 14-16 October 2022, Keynote Lecture - Multifunctional lignin-based nanocomposites and hybrids

Poster presentations:

1) Francesca Luzi, Debora Puglia, Franco Dominici, Luigi Torre, Catia Clementi, Loredana Latterini, Effect Of Natural Pigment From Logwood Bark In The Coloring Of Biopolymeric Matrices: Role Of The Matrices And Ageing Stability

2) Elena Battaglini, Enrico Bianchi, Michelina Soccio, Emanuele Simonini, Debora Puglia, Franco Dominici, Maurizio Fiorini, Valentina Siracusa, Nadia Lotti, Poly(Butylene Furanoate) Film For Sustainable Food Packaging: Mechanical, Gas Barrier And Welding Behavior

3) J. Gomez-Caturla, R. Tejada-Oliveros, D. Garcia-Garcia, R. Balart, F. Dominici, D. Puglia, L. Torre, Study Of The Effect Of Mango Kernel Flour Particle Size On The Mechanical And Morphological Properties Of Plasticized Films With Glycerol

4) Carlos Javier Pelegrín, Franco Dominici, Francesca Luzi, Luigi Torre, Alfonso Jiménez, Debora Puglia And María Carmen Garrigós, Sustainable Composites Based On Thermoplastic Starch Reinforced With Industrial Horchata Wastes

5) Cristian Patiño Vidal, Francesca Luzi, Debora Puglia, Gracia López-Carballo, , Carol López De Dicastillo, María José Galotto , Abel Guarda. Development Of A Sustainable Food Packaging Material Based In A Novel Polymeric And Biodegradable Multilayer System With Antibacterial Property

6) Jaume Sempere-Torregrosa, M^a Dolores Samper, José Miguel Ferri, Franco Dominici, Debora Puglia, Luigi Torre. Development Of Biodegradable Films Based On Polylactic Acid Incorporating Nanoparticles From Residues Of Herbal Infusions

7) F.R. Beltrán, F. Dominici, A. Agüero, M.P. Arrieta, D. Lascano, R. Balart, D. Puglia. Effect Of Maleinized Linseed Oil On The Structure And Properties Of Mechanically Recycled Poly(Lactic Acid) Bowls

8) Franco Dominici, Catia Clementi, Francesca Luzi, Luigi Torre, Loredana Latterini, Debora Puglia. Effect Of Metal Organic Frameworks (Mofs) As Stabilizers Of Natural Pigments In Bioplastic Composites

9) M^a Dolores Samper, Daniel Latorre-Guitierrez, Antonio Abel Lozano-Pérez, Franco Dominici, Debora Puglia And Luigi Torre. Effect Of Sericin And Maleinized Linseed Oil On Polylactic Acid Films Properties

- 10) Francesca Luzi, Franco Dominici, Luigi Torre, Marco Monti, Marta Zaccone, Federica Spina, Andrea Zanellati, Giovanna Cristina Varese, Debora Puglia. Mechanical Performance Of Polybutylene Succinate Composites Loaded With Mycelia Grown On Different Media
- 11) J. Gomez-Caturla, J. Ivorra-Martinez, D. Garcia-Garcia, R. Balart, F. Dominici, D. Puglia, L. Torre, Mechanical Properties And Morphology Of Composites Based On Polylactide And Mango Kernel Flour
- 12) Franco Dominici, Francesca Luzi, Paolo Benincasa, Luigi Torre, Debora Puglia. Polymeric Films Produced By Plasticizing Non-Edible Durum Wheat Flours: Processing And Variety-Property Relationship
- 13) A.C. Mellinas, F. Luzi, A. Jiménez, D. Puglia, M.C. Garrigós. Synthesis Of Lignin Nanocapsules For Active Food Packaging Applications

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PATENTS

WO2019211790 (A1) - PROCESS FOR OBTAINING PLASTIC MATERIAL FROM FLOURS AND SIMILAR PRODUCTS , Inventor(s): BENINCASA PAOLO [IT]; CUCCHIA MARIO [IT]; PUGLIA DEBORA [IT]; DOMINICI FRANCO [IT]; TORRE LUIGI [IT], Applicant(s): MOLINI SPIGADORO S P A [IT] +

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