

Curriculum Vitae

INFORMAZIONI PERSONALI

Nome VINCENZO
Cognome LA CARRUBBA
Recapiti Dipartimento di Ingegneria - Viale delle Scienze edificio 6
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091-23863726
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FORMAZIONE TITOLI

2018 (oct)-now Associate Professor of Industrial Bioengineering – University of Palermo, Engineering Department, viale delle Scienze building 6, 90128, Palermo (Italy)

2011-2018 Associate Professor of Material Science and Technology

2006-2011 Assistant Professor of Chemical Engineering
2001-2005 Post Doctoral Fellowship
2001-2004 MASTER in biomaterials (CIRMIB), Milano
1998-2000 PhD (XIII cycle), University of Palermo
1997 Master Degree in Chemical Engineering (110/100 cum laude).
1996 Erasmus projects (Loughborough University of Technology, UK)
1994-1995 University Stages at AGIP (Gela, Porto Torres, Italy)

ATTIVITA' DIDATTICA

1. Teaching Duties

- *Materials and processes for tissue engineering, Materials and processes for tissue and biochemical engineering, Tissue Engineering, Applied Chemistry, Applied Chemistry and Materials Science and Technology, Chemical Process Design, Fundamentals of Biochemical Engineering, Polymeric Materials*, for the courses of Chemical Engineering, Biomedical Engineering, Energy Engineering, Materials Engineering, Environmental Engineering at University of Palermo

2. Tutorials

- *Fundamentals of Chemical Engineering, Unitary Operations of Chemical Engineering, Chemical and Petrochemical Plants, Fundamentals of Chemistry and Physics of Macromolecules, Fundamentals of Biochemical Plants*, for the courses of Chemical Engineering and Biotechnologies at University of Palermo

3. Other teaching experiences

- Seminars on *Numerical Methods for Chemical Engineering, Energy and Mass Balances, Industrial Polymers and*

Applications, General Chemistry, Chemistry and Physics of polymers, Fundamentals of Materials for orthopedics, Prosthesis and regenerative Medicine, Fundamentals of Materials, Fundamentals of Material Processing, Polymer Injection Molding within several projects financed by EU (PON SIB 0I-01827, PON 0200355 PLASTics, PONA300273)

- Numerous seminars upon invitations in several international institutions: *University of Halle (Germany), University of Texas at Austin (USA), University of San Sebastian (Spain), DSM Research (The Netherlands)*

- Lecture in the GRICU School 2019 "Green Chemistry and Chemical Engineering", "Chemical Engineering for Biomedical Applications", Palermo, 3-6 luglio 2019

- Lecture in the GRICU School 2015 " Biological and bioprocess engineering", Padova, 7-11 settembre 2015

- Tutor of 50 master students' theses and 40 undergraduate students' theses

- Tutors of 4 PhD students

- Member of the *PhD Teaching Board in Information and Communication Technologies (ICT)*, University of Palermo

RICERCHE FINANZIATE

- "Conversione di Piattaforme Off Shore per usi multipli eco-sostenibili - PlaCE" PON 2014-2020

- "Identificazione di sistemi di rilascio ottimali per i Nucleic Acid Based Drugs e studio dei meccanismi di azione in alcuni modelli di patologie umane infiammatorie e tumorali", PRIN 2010, UO Palermo2, 2012-2015

- "Materiali biodegradabili a porosità controllata per applicazioni biomediche", PRIN 2008, UO Palermo, 2010-12

- "SIBAR – Sistemi di Irrigazione Biodegradabili per l'impiego di Acque Reflue urbane per le produzioni alimentari", P.O.N. Ricerca e competitività 2007/2013

- Progetto "Collettore Idea Sole – Innovativa piastrella per l'utilizzo di energia solare per il riscaldamento di liquidi" finanziato dal Ministero dell'Ambiente, 2011-2013

- "SOLUZIONI AVANZATE BASATE SU BIOMATERIALI A MATRICI COMPOSITE COMPLESSE PER LA RIPARAZIONE E LA RIGENERAZIONE DELLA CARTILAGINE ARTICOLARE MEDIANTE TECNICHE MININVASIVE ", PON-SIB, P.O.N. Ricerca e competitività 2007/2013

- Termoporazione Dinamica Irreversibile (DIT), linea di intervento 4.1.1.1 del PO FESR 2007/2013

- ECO-FLACONI - packaging eco-sostenibile per detersivi a ridotto impatto ambientale" P.O. FESR 2007/2013, linea di intervento 4.1.1.2

- "Characterization of the no-flow temperature of semicrystalline thermoplastics" (responsabile scientifico), finanziato da DSM Research, 2008;

- "Co-Synthesis of PBA Polymers for Ingates" (responsabile scientifico) Scientific and DSM Research, 2004-2007;
- "Polymers Injection Advanced Moulding" (PIAM), EU- Coordination action VII framework, 2004-2007;
- "Solidification of PBT/PET blends in relation to processing" finanziato da DSM Research, 2004-2006;
- "Scaffold polimerici riassorbibili per applicazioni biomedicali" fondi di Ateneo ex 60%, 2004-2006;
- "Cinetica di cristallizzazione, struttura e processabilità di nanocompositi e miscele con gomme a base di polistirene sindiotattico" PRIN, UO Palermo, 2002-2004;

ASSOCIAZIONI SCIENTIFICHE

Polymer Processing Society - PPS

Associazione Italiana d'Ingegneria dei Materiali - AIMAT

Consorzio Interuniversitario di Scienza e Tecnologia dei Materiali - INSTM

European Association of Material Forming - ESAFORM

Gruppo Ricercatori Ingegneria Chimica dell'Università - GRICU

Latin Association on Vascular Research - LIAC

Gruppo Italiano Biongegneria

PUBBLICAZIONE

PUBLICATIONS

Referred International Journals

1 2019

Montesanto, Salvatore,
 Smithers, Natalie P.,
 Bucchieri, Fabio,
 Brucato, Valerio,
 Carrubba, Vincenzo La,
 Davies, Donna E.,
 Conforti, Franco (2019).
 Establishment of a
 pulmonary epithelial
 barrier on biodegradable
 poly-L-lactic-acid
 membranes. PLOS

ONE, vol. 14, p. 1-13,
ISSN: 1932-6203, doi:
10.1371/journal.pone.
0210830

2 2019

Gritsch, Lukas,
Conoscenti, Gioacchino,
La Carrubba, Vincenzo,
Nooeaid,
Patcharakamon,
Boccaccini, Aldo R.
(2019). Polylactide-
based materials science
strategies to improve
tissue-material interface
without the use of
growth factors or other
biological molecules.
MATERIALS SCIENCE
AND ENGINEERING. C,
BIOMIMETIC
MATERIALS,
SENSORS AND
SYSTEMS, vol. 94, p.
1083-1101, ISSN:
0928-4931, doi: 10.1016/
j.msec.2018.09.038

3 2018

Vitrano, Ilenia, Pavia,
Francesco Carfi,
Conoscenti, Gioacchino,
Lombardo, Maria Elena,
Carrubba, Vincenzo La,
Brucato, Valerio (2018).
Evaluation of
hydroxyapatite
distribution in a Poly-L-
Lactic Acid (PLLA)
scaffolds via Micro
Computed Tomography
(μ CT). CHEMICAL
ENGINEERING
TRANSACTIONS, vol.
64, p. 193-198, ISSN:
2283-9216, doi: 10.3303/
CET1864033

4 2018

Conoscenti, Gioacchino,
Carfi Pavia, Francesco,
Ongaro, Alfred, Brucato,
Valerio, Goegele,
Clemens, Schwarz,
Silke, Boccaccini, Aldo
R., Stoelzel, Katharina,
La Carrubba, Vincenzo,
Schulze-Tanzil, Gundula
(2018). Human
nasoseptal
chondrocytes maintain
their differentiated
phenotype on PLLA
scaffolds produced by
thermally induced phase
separation and
supplemented with
bioactive glass 1393.
CONNECTIVE TISSUE
RESEARCH, vol. 1, p.
1-14, ISSN: 0300-8207,
doi:
10.1080/03008207.2018.

5 2018

Conoscenti, Gioacchino,
Carfi Pavia, Francesco,
Ciraldo, Francesca
Elisa, Liverani, Liliana,
Brucato, Valerio, La
Carrubba, Vincenzo,
Boccaccini, Aldo R.
(2018). In vitro
degradation and
bioactivity of composite
poly-l-lactic (PLLA)/
bioactive glass (BG)
scaffolds: comparison of
45S5 and 1393BG
compositions.
JOURNAL OF
MATERIALS SCIENCE,
vol. 53, p. 2362-2374,
ISSN: 0022-2461, doi:
10.1007/
s10853-017-1743-9

6 2018

Toscano, Mauro, Pavia,
Francesco Carfi,
Conoscenti, Gioacchino,
Sabatino, Maria A.,
Carrubba, Vincenzo La,
Dispenza, Clelia,
Brucato, Valerio (2018).

Kefiran-based scaffolds
for biomedical
applications.
CHEMICAL
ENGINEERING
TRANSACTIONS, vol.
64, p. 181-186, ISSN:
2283-9216, doi: 10.3303/
CET1864031

7 2018

Ongaro AE, Keraite I,
Liga A, Conoscenti G,
Coles S, Schulze H,
Bachmann TT, Parvez
K, Casiraghi C, Howarth
N, La Carrubba V,
Kersaudy-Kerhoas M
(2018). Laser Ablation of
Poly(lactic acid) Sheets
for the Rapid
Prototyping of
Sustainable, Single-Use,
Disposable Medical
Microcomponents. ACS
SUSTAINABLE
CHEMISTRY &
ENGINEERING, vol. 6,
p. 4899-4908, ISSN:
2168-0485, doi: 10.1021/
acssuschemeng.
7b04348

8 2018

Carrubba, V. La,
Brucato, V. (2018).
Preparation of Poly(l-
lactic acid) Scaffolds by
Thermally Induced
Phase Separation: Role
of Thermal History.
INTERNATIONAL
POLYMER
PROCESSING, vol. 33,
p. 300-313, ISSN:
0930-777X, doi:
10.3139/217.3511

9 2018

Carfi Pavia, Francesco,
Conoscenti, Gioacchino,
Greco, Silvia, La
Carrubba, Vincenzo,
Gherzi, Giulio, Brucato,
Valerio (2018).
Preparation,
characterization and in
vitro test of composites
poly-lactic acid/
hydroxyapatite scaffolds
for bone tissue
engineering.
INTERNATIONAL
JOURNAL OF
BIOLOGICAL
MACROMOLECULES,
vol. 119, p. 945-953,
ISSN: 0141-8130, doi:
10.1016/j.ijbiomac.
2018.08.007

10 2017

CARFI' PAVIA,
Francesco, CIAPPA,
Marco, Lepedda, A.,
Fiorentino, S.,
RIGOGLIUSO,
Salvatrice, BRUCATO,
Valerio Maria Bartolo,
Formato, M., GHERSI,
Giulio, LA CARRUBBA,
Vincenzo (2017). A poly-
L-lactic acid/ collagen/
glycosaminoglycan
matrix for tissue
engineering
applications. JOURNAL
OF CELLULAR
PLASTICS, vol. 53, p.
537-549, ISSN:
0021-955X, doi:
10.1177/0021955X17695

11 2017

Fiorentino, Simona
Maria, La Carrubba,
Vincenzo, Abrami,
Michela, Farra,
Rossella, Turco,
Gianluca, Grassi,
Gabriele, Grassi, Mario,
CARFI' PAVIA,
Francesco, BRUCATO,
Valerio Maria Bartolo
(2017). Characterization

of PLLA scaffolds for
biomedical applications.
INTERNATIONAL
JOURNAL OF
POLYMERIC
MATERIALS, vol. 66, p.
469-477, ISSN:
0091-4037, doi:
10.1080/00914037.2016.

12 2017

La Carrubba, Vincenzo,
Gherzi, Giulio, Greco,
Silvia, CARFI' PAVIA,
Francesco, BRUCATO,
Valerio Maria Bartolo
(2017). Double flow
bioreactor for in vitro
test of drug delivery.
CURRENT DRUG
DELIVERY, vol. 14, p.
239-245, ISSN:
1567-2018, doi:
10.2174/1567201813666

13 2017

Barba A., Cascone S.,
Caccavo D., Lamberti
G., Chiarappa G.,
Abrami M., Grassi G.,
Grassi M., Tomaiuolo
G., Guido S., Brucato
V., Carfi Pavia F.,
Gherzi G., La Carrubba
V., Abbiati R., Manca D.
(2017). Engineering
approaches in siRNA
delivery.
INTERNATIONAL
JOURNAL OF
PHARMACEUTICS, vol.
525, p. 343-358, ISSN:
0378-5173, doi: 10.1016/
j.ijpharm.2017.02.032

14 2017

Conoscenti, Gioacchino,
Schneider, Tobias,
Stoelzel, Katharina,

Goegele, Clemens, La Carrubba, Vincenzo, Schulze-Tanzil, Gundula, CARFI' PAVIA, Francesco, BRUCATO, Valerio Maria Bartolo (2017). PLLA scaffolds produced by thermally induced phase separation (TIPS) allow human chondrocyte growth and extracellular matrix formation dependent on pore size. MATERIALS SCIENCE AND ENGINEERING. C, BIOMIMETIC MATERIALS, SENSORS AND SYSTEMS, vol. 80, p. 449-459, ISSN: 0928-4931, doi: 10.1016/j.msec.2017.06.011

15 2016

MONTESANTO, Salvatore, BRUCATO, Valerio Maria Bartolo, LA CARRUBBA, Vincenzo (2016). Evaluation of mechanical and morphologic features of PLLA membranes as supports for perfusion cells culture systems. MATERIALS SCIENCE AND ENGINEERING. C, BIOMIMETIC MATERIALS, SENSORS AND SYSTEMS, vol. 69, p. 841-849, ISSN: 0928-4931, doi: 10.1016/j.msec.2016.07.030

16 2016

CARFI' PAVIA, Francesco, PALUMBO, Fabio Salvatore, LA CARRUBBA, Vincenzo, Bongiovì, Flavia, BRUCATO, Valerio Maria Bartolo, PITARRESI, Giovanna,

GIAMMONA, Gaetano (2016). Modulation of physical and biological properties of a composite PLLA and polyaspartamide derivative obtained via thermally induced phase separation (TIPS) technique. MATERIALS SCIENCE AND ENGINEERING. C, BIOMIMETIC MATERIALS, SENSORS AND SYSTEMS, vol. 67, p. 561-569, ISSN: 0928-4931, doi: 10.1016/j.msec.2016.05.040

17 2016

Montesanto S, Calò G, Cruciata M, Settanni L, Brucato V, La Carrubba V (2016). Optimization of environmental conditions for kefir production by kefir grain as scaffold for tissue engineering. CHEMICAL ENGINEERING TRANSACTIONS, vol. 49, p. 607-612, ISSN: 2283-9216, doi: 10.3303/CET1649102

18 2016

Gherzi G, Carfi Pavia F, Conoscenti G, Mannella GA, Greco S, Rigogliuso S, La Carrubba V, Brucato V (2016). PLLA Scaffold via TIPS for Bone Tissue Engineering. CHEMICAL ENGINEERING TRANSACTIONS, vol. 49, p. 301-306, ISSN: 2283-9216, doi: 10.3303/CET1649051

19 2016

Mannella GA, Carfi Pavia F, La Carrubba V, Brucato V (2016). Phase separation of polymer blends in solution: A case study. EUROPEAN POLYMER JOURNAL, vol. 79, p. 176-186, ISSN: 0014-3057, doi: 10.1016/j.eurpolymj.2016.04.025

20 2016

Liga A, Montesanto S, Mannella GA, La Carrubba V, Brucato V, Cammalleri M (2016). Study on heat transfer coefficients during cooling of PET bottles for food beverages. HEAT AND MASS TRANSFER, vol. 52, p. 1479-1488, ISSN: 0947-7411, doi: 10.1007/s00231-015-1652-x

21 2016

Montesanto, Salvatore, Conforti, Franco, Smithers, Natalie, Bucchieri, Fabio, Brucato, Valerio, La Carrubba, Vincenzo, Davies, Donna (2016). Pulmonary epithelial barrier formation on biodegradable poly-L-lactic-acid (PLLA) membrane. EUROPEAN RESPIRATORY JOURNAL, ISSN: 0903-1936, doi: 10.1183/13993003.congr

22 2015

Montesanto S, Mannella GA, Carfi Pavia F, La Carrubba V, Brucato V (2015). Coagulation bath composition and desiccation environment as tuning parameters to prepare skinless membranes via diffusion induced phase separation. JOURNAL OF APPLIED POLYMER SCIENCE, vol. 132, p. 42151-42160, ISSN: 0021-8995, doi: 10.1002/app.42151

23 2015

MANNELLA, Gianluca Antonio, Conoscenti, Gioacchino, CARFI' PAVIA, Francesco, LA CARRUBBA, Vincenzo, BRUCATO, Valerio Maria Bartolo (2015). Preparation of polymeric foams with a pore size gradient via Thermally Induced Phase Separation (TIPS). MATERIALS LETTERS, vol. 160, p. 31-33, ISSN: 0167-577X, doi: 10.1016/j.matlet.2015.07.055

24 2014

MANNELLA, Gianluca Antonio, CARFI' PAVIA, Francesco, Conoscenti, Gioacchino, LA CARRUBBA, Vincenzo, BRUCATO, Valerio Maria Bartolo (2014). Evidence of Mechanisms Occurring in Thermally Induced Phase Separation of Polymeric Systems. JOURNAL OF POLYMER SCIENCE. PART B, POLYMER PHYSICS, vol. 52, p.

979-983, ISSN:
0887-6266, doi: 10.1002/
polb.23518

25 2014

Mannella GA, La
Carrubba V, Brucato V
(2014). Peltier cells as
temperature control
elements: Experimental
characterization and
modelling. APPLIED
THERMAL
ENGINEERING, vol. 63,
p. 234-245, ISSN:
1359-4311

26 2014

Carfi Pavia F, La
Carrubba V, Brucato V,
Palumbo FS, Giammona
G (2014). Synthesis,
characterization and
foaming of PHEA-PLLA,
a new graft copolymer
for biomedical
engineering.
MATERIALS SCIENCE
AND ENGINEERING. C,
BIOMIMETIC
MATERIALS,
SENSORS AND
SYSTEMS, vol. 41, p.
301-308, ISSN:
0928-4931

27 2013

Mannella GA, La
Carrubba V, Brucato V
(2013). Measurement of
cloud point temperature
in polymer solutions.
REVIEW OF
SCIENTIFIC
INSTRUMENTS, vol.
84, ISSN: 0034-6748

28 2013
CARFI' PAVIA,
Francesco, LA
CARRUBBA, Vincenzo,
GHERSI, Giulio,
BRUCATO, Valerio
Maria Bartolo (2013).
Poly-Left-Lactic Acid
tubular scaffolds via
Diffusion Induced Phase
Separation (DIPS):
control of morphology.
POLYMER
ENGINEERING AND
SCIENCE, vol. 53, p.
431-442, ISSN:
0032-3888, doi: 10.1002/
pen.23273

29 2012

MANNELLA, Gianluca
Antonio, LA
CARRUBBA, Vincenzo,
BRUCATO, Valerio
Maria Bartolo (2012).
Evaluation of vapor
mass transfer in various
membrane distillation
configurations: an
experimental study.
HEAT AND MASS
TRANSFER, vol. 48, p.
945-952, ISSN:
0947-7411, doi: 10.1007/
s00231-011-0946-x

30 2012

CARFI' PAVIA,
Francesco, LA
CARRUBBA, Vincenzo,
BRUCATO, Valerio
Maria Bartolo (2012).
Morphology and thermal
properties of foams
prepared via thermally
induced phase
separation based on
polylactic acid blends.
JOURNAL OF
CELLULAR PLASTICS,
vol. 48, p. 399-407,
ISSN: 0021-955X, doi:
10.1177/0021955X12452

31 2012

Carfi Pavia F,
Rigogliuso S, La
Carrubba V, Mannella
GA, Ghersi G, Brucato V
(2012). Poly lactic acid
based scaffolds for
vascular tissue
engineering. CHEMICAL
ENGINEERING
TRANSACTIONS, vol.
27, p. 409-414, ISSN:
2283-9216, doi: 10.3303/
CET1227069

32 2012

Rigogliuso S, Pavia FC,
Brucato V, La Carrubba
V, Favia P, Intranuovo
F, Gristina R, Ghersi G
(2012). Use of Modified
3D Scaffolds to Improve
Cell Adhesion and Drive
Desired Cell
Responses. CHEMICAL
ENGINEERING
TRANSACTIONS, vol.
27, p. 415-420, ISSN:
2283-9216, doi: 10.3303/
CET1227070

33 2012

BRUCATO, Valerio
Maria Bartolo, CARFI'
PAVIA, Francesco,
RIGOGLIUSO,
Salvatrice, LA
CARRUBBA, Vincenzo,
GHERSI, Giulio (2012).
Poly lactic acid based
scaffolds as graft for
small-diameter arterial
replacement..
JOURNAL OF TISSUE
ENGINEERING AND
REGENERATIVE
MEDICINE, vol. 6
(Suppl. 1), ISSN:
1932-6254, doi: 10.1002/
term.1586

34 2011

Mannella GA, La Carrubba V, Brucato VMB, Sanchez IC (2011). Lattice fluid model generalized for specific interactions: An application to ternary polymer solutions. FLUID PHASE EQUILIBRIA, vol. 312, ISSN: 0378-3812, doi: 10.1016/j.fluid.2011.09.013

35 2011

Mannella GA, La Carrubba V, Brucato VM, Zoetelief W, Haagh G (2011). No-Flow Temperature in Injection Molding Simulation. JOURNAL OF APPLIED POLYMER SCIENCE, vol. 119, p. 3382-3392, ISSN: 0021-8995, doi: 10.1002/app.32987

36 2011

Mannella GA, La Carrubba V, Brucato VM (2011). Some Features of Polymeric Membranes for Water Purification via Membrane Distillation. JOURNAL OF APPLIED POLYMER SCIENCE, vol. 122, ISSN: 0021-8995, doi: 10.1002/app.34765

37 2010

Carfi Pavia F, La Carrubba V, Ghersi G, Brucato V (2010). A COMPOSITE PLLA SCAFFOLD FOR REGENERATION OF COMPLEX TISSUES. INTERNATIONAL JOURNAL OF MATERIAL FORMING, vol. 3, p. 571-574, ISSN: 1960-6206, doi: 10.1007/s12289-010-0834-9

38 2010

MANNELLA, Gianluca Antonio, LA CARRUBBA, Vincenzo, BRUCATO, Valerio Maria Bartolo (2010). CHARACTERIZATION OF HYDROPHOBIC POLYMERIC MEMBRANES FOR MEMBRANE DISTILLATION PROCESS. INTERNATIONAL JOURNAL OF MATERIAL FORMING, vol. 3, p. 563-566, ISSN: 1960-6214, doi: 10.1007/s12289-010-0832-y

39 2010

Mannella GA, La Carrubba V, Brucato V (2010). On the calculation of free energy of mixing for aqueous polymer solutions with group-contribution models. FLUID PHASE EQUILIBRIA, vol. 299, p. 222-228, ISSN: 0378-3812, doi: 10.1016/j.fluid.2010.09.036

40 2010

LA CARRUBBA,
Vincenzo, CARFI'
PAVIA, Francesco,
BRUCATO, Valerio
Maria Bartolo (2010).
TUBULAR SCAFFOLD
FOR VASCULAR
TISSUE ENGINEERING
APPLICATION.
INTERNATIONAL
JOURNAL OF
MATERIAL FORMING,
vol. 2010, p. 567-570,
ISSN: 1960-6206, doi:
10.1007/
s12289-010-0833-x

41 2009

BRUCATO, Valerio
Maria Bartolo, CARFI'
PAVIA, Francesco, LA
CARRUBBA, Vincenzo
(2009). Demixing time
and temperature
influence on porosity
and interconnection of
PLLA scaffolds prepared
via TIPS.
MACROMOLECULAR
SYMPOSIUM, vol. 286, p.
49-52, ISSN:
1022-1360, doi: 10.1002/
masy.200951206

42 2009

Carfi Pavia F, Turturici
G, Geraci F, Brucato
VM, La Carrubba V,
Luparello C, Sconzo G
(2009). Porous PLLA
scaffolds are optimal
substrates for internal
colonization by A6
mesoangioblasts and
immunocytochemical
analyses. JOURNAL OF
BIOSCIENCES, p.
873-879, ISSN:
0250-5991, doi: 10.1007/
s12038-009-0101-8

43 2009

Carfi Pavia F, La Carrubba V, Brucato V (2009). TUNING OF BIODEGRADATION RATE OF PLLA SCAFFOLDS VIA BLENDING WITH PLA. INTERNATIONAL JOURNAL OF MATERIAL FORMING, vol. 2, p. 713-716, ISSN: 1960-6214, doi: 10.1007/s12289-009-0574-x

44 2009

CARFI' PAVIA, Francesco, LA CARRUBBA, Vincenzo, BRUCATO, Valerio Maria Bartolo, GHERSI, Giulio (2009). Tailoring PLLA scaffolds for tissue engineering applications: Morphologies for 2D and 3D cell cultures. INTERNATIONAL JOURNAL OF MATERIAL FORMING, vol. 2, p. 717-720, ISSN: 1960-6206, doi: 10.1007/s12289-009-0546-1

45 2009

Stocco, A, LA CARRUBBA, Vincenzo, PICCAROLO, Stefano, BRUCATO, Valerio Maria Bartolo (2009). The Solidification Behavior of a PBT/PET Blend Over a Wide Range of Cooling Rate. JOURNAL OF POLYMER SCIENCE. PART B, POLYMER PHYSICS, vol. 47, p. 799-810, ISSN: 0887-6266, doi: 10.1002/polb.21687

46 2009

BRUCATO, Valerio
Maria Bartolo, Kiflie
Woldemariam, Z, LA
CARRUBBA, Vincenzo,
PICCAROLO, Stefano
(2009). The continuous
cooling transformation
(CCT) as a flexible tool
to investigate polymer
crystallization under
processing conditions.
ADVANCES IN
POLYMER
TECHNOLOGY, vol. 28,
p. 86-119, ISSN:
0730-6679, doi: 10.1002/
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47 2009

CARFI' PAVIA,
Francesco, LA
CARRUBBA, Vincenzo,
BRUCATO, Valerio
Maria Bartolo (2009).
Tuning of
biodegradation rate of
PLLA scaffolds via
blending with PLA.
INTERNATIONAL
JOURNAL OF
MATERIAL FORMING,
vol. 2, p. 713-716, ISSN:
1960-6206, doi: 10.1007/
s12289-009-0574-x

48 2008

LA CARRUBBA V,
BULTERS M,
ZOETELIEF W (2008).
Dependence of
Coefficient of volumetric
thermal expansion
(CVTE) of glass fiber
reinforced (GFR)
polymers on the glass
fiber content. POLYMER
BULLETIN, vol. 59, p.
813-824, ISSN:
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49 2008

La Carrubba V, Carfi
Pavia F, Brucato V,
Piccarolo S, Gherzi G
(2008). PLLA
biodegradable scaffolds
for angiogenesis via
Diffusion Induced Phase
Separation (DIPS).
INTERNATIONAL
JOURNAL OF
MATERIAL FORMING,
vol. 1, p. 623-626, ISSN:
1960-6206, doi: 10.1007/
s12289-008-0333-4

50 2008

LA CARRUBBA,
Vincenzo, CARFI'
PAVIA, Francesco,
BRUCATO, Valerio
Maria Bartolo,
PICCAROLO, Stefano
(2008). PLLA/PLA
scaffolds prepared via
Thermally Induced
Phase Separation
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- IEEE 4th International Forum on Research and Technologies for Society and Industry, RTSI 2018 Institute of Electrical and Electronics Engineers

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2017

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University of Greenwich
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- XXXIII LIAC Meeting
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2016

- TERMIS - Americas
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Ustica (Italy), Sept
14-17, 2016

2015

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conference on
Biofoams, Sorrento
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Processing with
Resulting Morphology
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the Present and Eyes at
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15-17, 2015

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conference 2015,
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Research Congress
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August 16-20 2015

2014

- XXX LIAC Meeting on
Vascular Research,
Valladolid (Spain), Oct
22-25, 2014

2013

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(Scotland), April 25-28,
2006

2005

- 21st Annual Meeting of
the Polymer Processing
Society. Leipzig
(Germany), June 19-23,
2005

- The 8th ESAFORM
Conference on Material
Forming. Cluj Napoca
(Romania), April 27-29,
2005

2004

- COST P12 Conference
2004, Structuring of
Polymers. Napoli (Italy),
October 27-30, 2004

- The 7th ESAFORM
Conference on Material
Forming ESAFORM
2004. Trondheim
(Norway) April 28-30,
2004

2003

- Polymer Processing
Society regional
meeting. Athens
(Greece), September
14-17 2003

- The 6th International
ESAFORM Conference
on Material Forming,
Salerno (Italy), April
28-30 2003

- Polymer Crystallization
and Structure Formation
in Processing. Linz,
Austria, September
19-20, 2003

2002

- Polymer Processing
Society, 18th Annual
Meeting. Guimaraes
(Portugal), June 16-20,
2002

The 5th ESAFORM
conference on Material
Forming. Krakow
(Poland) April 14-17,
2002

2001

- Polymer Processing
Society, 17th Annual
Meeting. Montreal,
Canada, May 31- June
4, 2001

- 3rd ESAFORM
conference on Material
Forming. Liège
(Belgium) 23-25 April,
2001

- 7th European
Conference on
advanced Materials and
Processing, EUROMAT.
Rimini (Italy) June
10-14, 2001

2000

- Polymer Processing
Society XVI regional
meeting. Zlin (Czech
Republic), August
15-18, 2000

- 2nd ESAFORM
conference on Material
Forming. Stuttgart
(Germany), April 11-14
2000

1999

- Polymer Processing
Society, 15th Annual
Meeting. 's
Hertogenbosch (The
Netherlands), May 31-

June 4 1999

1998

- 1st ESAFORM
conference on Material
Forming. Sophia–
Antipolis (France),
March 17-20, 1998

1997

- Polymer Processing
Society –Europe/Africa
Region Meeting.
Gothenburg (Sweden),
August 19-21, 1997

**Presentations in Italian
Meetings**

2018

- Congresso Nazionale
Società Italiana
Biomateriali. Rende
(Cosenza), 6-8 giugno
2018

2015

- Congresso Nazionale
Società Italiana
Biomateriali. Ancona,
3-5 giugno 2015

2014

- XII convegno nazionale AIMAT 2014. Lecce, 21-24 settembre 2014

- XXI Convegno dell'Associazione Italiana di Scienza e Tecnologia delle Macromolecole. Torino, 14-19 settembre 2014

- I materiali biocompatibili per la medicina. Convegno nazionale della Società italiana biomateriali Palermo, 2-4 luglio 2014

2013

- IX convegno nazionale sulla scienza e tecnologia dei materiali. Bari, 30 giugno - 3 luglio 2013

2012

- XII Convegno della Società Italiana di Reologia. Ustica, 3-6 luglio 2012

- Congresso Nazionale Biomateriali. Lecce, 18-20 giugno 2012

2011

- XX Convegno Italiano di Scienza e Tecnologia delle Macromolecole. Terni, 4-8 settembre 2011

2006

- Quarto Congresso del
dipartimento di biologia
cellulare e dello
sviluppo. Palermo,
20-21 Dicembre 2006

- 8° Convegno
Nazionale AIMAT.
Palermo, June 27-July
1, 2006

2005

- Congresso annuale del
Dipartimento di Biologia
Cellulare e dello
Sviluppo "A. Monroy".
Palermo, 21-22
Dicembre 2005

2004

- Convegno GRICU
2004 Nuove Frontiere di
Applicazione delle
Metodologie
dell'Ingegneria Chimica.
Ischia, 12-15 Settembre
2004

2001

- XV Convegno Italiano
di Scienza e Tecnologia
delle Macromolecole.
Trieste, 24-27
Settembre 2001

- III Convegno INSTM
Nazionale sulla Scienza
e Tecnologia dei
Materiali. Trento, 18-20
Giugno 2001

2000

- Convegno AIMAT.
Spoleto, 17-21 luglio
2000

1999

- Il Convegno Nazionale
sulla Scienza e
Tecnologia dei Materiali.
Acireale, 14-16 ottobre
1999

1998

- Convegno GRICU.
Ferrara, 22-25
settembre 1998

Italian Patents

- Brevetto
RM2009A00007
depositato il 18/02/2009
dal titolo
"PROCEDIMENTO DI
PREPARAZIONE DI
SCAFFOLD
POLIMBRICI
PREANGIOGENIZZATI"

- Brevetto PA2010 A
000023 depositato nel
2010 dal titolo "Sistema
biocompatibile di
supporto per la
piantumazione di
organismi vegetali in
ambiente marino"

- Brevetto
102016000005975
presentato il 22/01/2016
dal titolo "Bioreattore a
perfusione
autosufficiente monouso
per crescita cellulari 3D"

- Brevetto
102016000033555
depositato in data
01/04/2016 dal titolo
"Tessuti bio-ibridi
impiegabili nei trapianti
e procedimento per la
loro preparazione"

AMBITI DI RICERCA

Research activity is focused on the following topics:

- *modelling and characterization of phase separation processes aimed to the synthesis of biodegradable polymeric scaffolds for tissue engineering applications (skin, bone, osteochondral and vascular tissue engineering): mechanical and biological characterization, development of innovative materials*
- *modelling and experimental analysis on crystallization kinetics of thermoplastic polymers under processing conditions*
- *development of on line tools (indentation test) for modelling, control and optimization of injection moulding*
- *modelling and experimental analysis of injection moulding of polymeric materials (shrinkage e warpage, No-Flow Temperature, polymeric composites)*

The aforementioned activity, pursued in the framework of several research project, is documented by more than *70 publications* on international ISI journals, by *4 patents*, by more than *100 extended abstracts* of international conferences, by seminars given in various international scientific institutions and Congress keynote presentations.

Peer-reviewer of several scientific journals (Journal of Polymer Science, Journal of Applied Polymer Science, Polymer, Polymer International, International Journal of Heat and Mass Transfer, Heat and Mass Transfer, Polymer Engineering and Science, Macromolecular Materials and Engineering, Polymer Bulletin, Materials Letters, etc.)