

Pierfrancesco Cerruti

CNR - Istituto dei Polimeri, Compositi e Biomateriali (IPCB)

- Parole chiave aree di competenza: Polymer degradation and stabilization. Stimuli-responsive polymers. Sintesi di nuovi polimeri acrilici perfluorurati con gruppi cromofori in catena per la realizzazione di coatings fotoselettivi. Metodologie innovative per la produzione di idrogeno.
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Formazione:

Ingegneria dei Materiali, PhD, Università Federico II di Napoli

Recent Interests

- SHAPE MEMORY ELASTOMERS FILLED WITH CARBON NANOTUBES AND GRAPHENE
- PHOTO TRIGGERED RELEASE FROM MICRO AND NANOSIZED CAPSULES
- PREPARATION AND CHARACTERIZATION OF THERMO-RESPONSIVE POLY(ETHYLENE GLYCOL) METHACRYLATE-BASED COPOLYMERS
- NATURALLY OCCURRING PRODUCTS AS FUNCTIONAL POLYMER ADDITIVES
- VALORIZATION OF LIGNOCELLULOSIC MATERIALS FOR THE PRODUCTION OF BIODEGRADABLE POLYMER-BASED COMPOSITES
- PREPARATION OF NANOPARTICLES FOR PREVENTION AND TREATMENT OF PATHOLOGIES ASSOCIATED WITH ECTOPIC ARTERIAL CALCIFICATION
- BIODEGRADABLE POLYMERIC BLENDS AND THEIR COMPATIBILIZATION
- STRUCTURAL CHARACTERIZATION OF POLYMERS, NANOCOMPOSITES AND HYBRIDS BY SMALL-ANGLE X-RAY SCATTERING
- PHOSPHOROUS-CONTAINING POLYMERS AS MACROMOLECULAR FLAME RETARDANT ADDITIVES
- SELECTIVE LOCALIZATION OF NANOPARTICLES IN MICROSTRUCTURED POLYMER SYSTEMS
- HYBRID SYSTEMS BASED ON BIOMIMETIC POLYMERS
- ADVANCED POLYMER-GRAPHENE NANOCOMPOSITES THROUGH A FINE TAILORING OF GRAPHENE MORPHOLOGY

- RECYCLING OF THERMOSETTING COMPOSITES AND EXPANDED PACKAGING

➔ The research examines the problematics linked to the recycling of thermosetting materials based composites, epoxy and polyester containing glass fibers or carbon fibers of various origin (automotive, aviation, construction, energy, etc.) and packaging made of expanded polystyrene (EPS). Through a patented process, new thermoplastic composite materials are obtained, with high mechanical and thermal properties, with possible applications in construction or furniture. The procedure involves the gelation of polystyrene foam, which is followed by mixing/emulsification with previously milled fillers obtained from thermosetting composites. The obtained material is transformed into sheets or pellets for subsequent molding or thermoforming processes. The technology has been successfully applied for the recycling of fiberglass boats (convention jhost-UCINA, BOATCYCLE e BOATDIGEST projects) and carboresins from aircrafts dismantling (CLEAN SKY projects).

SELECTED PAPERS

Cerruti P, Fedi F, Avolio R, Gentile G, Carfagna C, Persico P, Errico ME, Malinconico M, Avella M. Up-cycling End-of-Use Materials: Highly Filled Thermoplastic Composites Obtained by Loading Waste Carbon Fiber Composite Into Fluidified Recycled Polystyrene. *Polymer Composites* 2014;35(8):1621–1628. DOI: 10.1002/pc.22815.

PROJECTS

SUSRAC: 2012 EU Research Project "Sustainable Recycling of Aircraft Composites", as part of the European Programme Clean Sky.

IRECE: 2013 EU Research Project IRECE, "Industrial Recycling of CFRP by emulsification", as part of the European Programme Clean Sky.

BOATCYCLE: LIFE08 ENV/E/000158 "Management, recycling and recovery of wastes of recreational boat scrapping".

BOATDIGEST: 2013-1-ES1-LEO05-67616 EU Lifelong Learning Programme, "Boat dismantling insight by generating environmental and safety training".

PATENTS

Avella M, Errico ME, Fabozzi G, Lucchesi C, Malinconico M, Petrucci M, Ponzecchi E. Process and plant for the production of composite thermoplastics and materials thus obtained. PCT/IT2007/00084, WO/2009/072150

Prodotti della ricerca

Castaldo R.; Lama G.C.; Aprea P.; Gentile G.; Lavorgna M.; Ambrogi V.; Cerruti P.

[Effect of the oxidation degree on self-assembly, adsorption and barrier properties of nano-graphene](#)

(2018) in Microporous and mesoporous materials (Print)

Zuppari, Federica; Chiacchio, Francesco Raffaele; Sammarco, Roberta; Malinconico, Mario; d'Ayala, Giovanna Gomez; Cerruti, Pierfrancesco

Fluorinated oligo(ethylene glycol) methacrylate-based copolymers: Tuning of self assembly properties and relationship with rheological behavior

(2017) in Polymer (Guildford)

Simon, Douglas A.; Simon, Douglas A.; Bischoff, Eveline; Bischoff, Eveline; Buonocore, Giovanna G.; Cerruti, Pierfrancesco; Cerruti, Pierfrancesco; Raucci, Maria G.; Xia, Hesheng; Schrekker, Henri S.; Lavorgna, Marino; Lavorgna, Marino; Ambrosio, Luigi; Mauler, Raquel S.

Graphene-based masterbatch obtained via modified polyvinyl alcohol liquid-shear exfoliation and its application in enhanced polymer composites

(2017) in Materials & design

Panzella, Lucia; Perez-Burillo, Sergio; Pastoriza, Silvia; Angeles Martin, Maria; Cerruti, Pierfrancesco; Goya, Luis; Ramos, Sonia; Angel Rufian-Henares, Jose; Napolitano, Alessandra; d'Ischia, Marco

High Antioxidant Action and Prebiotic Activity of Hydrolyzed Spent Coffee Grounds (HSCG) in a Simulated Digestion-Fermentation Model: Toward the Development of a Novel Food Supplement

(2017) in Journal of agricultural and food chemistry

Marturano, Valentina; Cerruti, Pierfrancesco; Giamberini, Marta; Tylkowski, Bartosz; Ambrogi, Veronica

Light-Responsive Polymer Micro- and Nano-Capsules

(2017) in Polymers (Basel)

Nasti, G.; Sanchez, S.; Gunkel, I.; Balog, S.; Roose, B.; Wilts, B. D.; Teuscher, J.; Gentile, G.; Cerruti, P.; Ambrogi, V.; Carfagna, C.; Steinerd, U.; Abate, A.

Patterning of perovskite-polymer films by wrinkling instabilities

(2017) in Soft matter (Print)

Stanzione, M.; Gargiulo, N.; Caputo, D.; Liguori, B.; Cerruti, P.; Amendola, E.; Lavorgna, M.; Buonocore, G. G.

Peculiarities of vanillin release from amino-functionalized mesoporous silica embedded into biodegradable composites

(2017) in European Polymer Journal

Tylkowski, Bartosz; Trojanowska, Anna; Marturano, Valentina; Nowak, Martyna; Marciniak, Lukasz; Giamberini, Marta; Ambrogi, Veronica; Cerruti, Pierfrancesco

Power of light - Functional complexes based on azobenzene molecules

(2017) in Coordination chemistry reviews (Print)

Conte R.; Marturano V.; Peluso G.; Calarco A.; Cerruti P.

Recent advances in nanoparticle-mediated delivery of anti-inflammatory phytochemicals

(2017) in International journal of molecular sciences (Print)

Agustin-Salazar, Sarai; Gamez-Meza, Nohemi; Angel Medina-Juarez, Luis; Malinconico, Mario; Cerruti, Pierfrancesco

Stabilization of Polylactic Acid and Polyethylene with Nutshell Extract: Efficiency Assessment and Economic Evaluation

(2017) in ACS sustainable chemistry & engineering

[Visualizza ulteriori prodotti](#)

Belmonte, Alberto; Lama, Giuseppe Cesare; Gentile, Gennaro; Fernandez-Francos, Xavier; De la Flor, Silvia; Cerruti, Pierfrancesco; Ambrogi, Veronica

Synthesis and Characterization of Liquid-Crystalline Networks: Toward Autonomous Shape-Memory Actuation

(2017) in Journal of physical chemistry. C

M. ARELLA, M. AVELLA, P. BARNABE, G. BUONOCORE, C. CARFAGNA, P. CERRUTI, E. FIORE, A. FONTANA, G. GENTILE, A. GLORIA, R. GROOME, A. MOREAU, L. MAGLIULO, B. NICOLAUS, A. POLI, G. SANTAGATA, G. TOMMONARO

Techonology Transfer Day

(2017)

Belmonte, Alberto; Lama, Giuseppe C.; Gentile, Gennaro; Cerruti, Pierfrancesco; Arnbrogi, Veronica; Fernandez-Francos, Xavier; De la Flor, Silvia

Thermally-triggered free-standing shape-memory actuators

(2017) in European Polymer Journal

Panzella, Lucia; Cerruti, Pierfrancesco; Ambrogi, Veronica; Agustin-Salazar, Sarai; D'Errico, Gerardino; Carfagna, Cosimo; Goya, Luis; Ramos, Sonia; Martin, Maria A.; Napolitano, Alessandra; d'Ischia, Marco

A Superior All-Natural Antioxidant Biomaterial from Spent Coffee Grounds for Polymer Stabilization, Cell Protection, and Food Lipid Preservation

(2016) in ACS sustainable chemistry & engineering

Angelini, Stefania; Cerruti, Pierfrancesco; Immirzi, Barbara; Scarinzi, Gennaro; Malinconico, Mario

Acid-insoluble lignin and holocellulose from a lignocellulosic biowaste: Bio-fillers in poly(3-hydroxybutyrate)

(2016) in European Polymer Journal

Montane, Xavier; Artur Bogdanowicz, Krzysztof; Colace, Gianmarco; Antonio Reina, Jose; Cerruti, Pierfrancesco; Lederer, Alben; Giamberini, Marta

Advances in the design of self-supported ion-conducting membranes-new family of columnar liquid crystalline polyamines. Part 1: Copolymer synthesis and membrane preparation

(2016) in Polymer (Guildford)

Lama, Giuseppe Cesare; Cerruti, Pierfrancesco; Lavorogna, Marino; Carfagna, Cosimo; Carfagna, Cosimo; Ambrogi, Veronica; Ambrogi, Veronica; Gentile, Gennaro

Controlled Actuation of a Carbon Nanotube/Epoxy Shape-Memory Liquid Crystalline Elastomer

(2016) in Journal of physical chemistry. C

Nasti, Giuseppe; Gentile, Gennaro; Cerruti, Pierfrancesco; Carfagna, Cosimo; Ambrogi, Veronica

Double percolation of multiwalled carbon nanotubes in polystyrene/polylactic acid blends

(2016) in Polymer (Guildford)

Manini, Paola; Panzella, Lucia; Eidenberger, Thomas; Giarra, Antonella; Cerruti, Pierfrancesco; Trifuoggi, Marco; Napolitano, Alessandra

Efficient Binding of Heavy Metals by Black Sesame Pigment: Toward Innovative Dietary Strategies To Prevent Bioaccumulation

(2016) in Journal of agricultural and food chemistry

Ortega-Toro, Rodrigo; Santagata, Gabriella; d'Ayala, Giovanna Gomez; Cerruti, Pierfrancesco; Talens Oliag, Pau; Amparo Chiralt Boix, M.; Malinconico, Mario

Enhancement of interfacial adhesion between starch and grafted poly(epsilon-caprolactone)

(2016) in Carbohydrate polymers

Bizzarro, Valentina; Carfagna, Cosimo; Cerruti, Pierfrancesco; Marturano, Valentina; Ambrogi, Veronica

Light-Responsive Polymer Microcapsules as Delivery Systems for Natural Active Agents

(2016) Times of Polymers, Ischia, 15/06/2016

Auriemma, Maria; Piscitelli, Amodio; Pasquino, Rossana; Cerruti, Pierfrancesco; Malinconico, Mario; Grizzuti, Nino

Blending poly(3-hydroxybutyrate) with tannic acid: Influence of a polyphenolic natural additive on the rheological and thermal behavior

(2015) in European Polymer Journal

Sauc?, Silvana; Giamberini, Marta; Cerruti, Pierfrancesco; Malinconico, Mario; Reina, JoséA A.

Effect of phosphorous-containing modified poly(vinyl alcohol) on the mechanical and flame retardant properties of polypropylene

(2015) in Express polymer letters

Marturano, Valentina; Cerruti, Pierfrancesco; Carfagna, Cosimo; Giamberini, Marta; Tylkowski, Bartosz; Ambrogi, Veronica

Photo-responsive polymer nanocapsules

(2015) in Polymer (Guildford)

Nobile, Maria Rossella; Cerruti, Pierfrancesco; Malinconico, Mario; Pantani, Roberto

Processing and properties of biodegradable compounds based on aliphatic polyesters

(2015) in Journal of applied polymer science (Print)

Veronica Ambrogi, Lucia Panzella, Paola Persico, Pierfrancesco Cerruti, Carlo A. Lonz, Cosimo Carfagna, Luisella Verotta, Enrico Caneva, Alessandra Napolitano, Marco d'Ischia

An Antioxidant Bioinspired Phenolic Polymer for Efficient Stabilization of Polyethylene

(2014) in Biomacromolecules (Online)

della Vecchia, Nicola Fyodor; Cerruti, Pierfrancesco; Gentile, Gennaro; Errico, Maria Emanuela; Ambrogi, Veronica; D'Errico, Gerardino; Longobardi, Sara; Napolitano, Alessandra; Paduano, Luigi; Carfagna, Cosimo; d'Ischia, Marco

Artificial Biomelanin: Highly Light-Absorbing Nano-Sized Eumelanin by Biomimetic Synthesis in Chicken Egg White

(2014) in Biomacromolecules

AMBROGI VERONICA , CERRUTI PIERFRANCESCO , IMMIRZI BARBARA , MALINCONICO MARIO , PERSICO PAOLA , SANTAGATA GABRIELLA

COMPOSIZIONE STABILIZZATA DI OMOPOLIMERI O COPOLIMERI DI POLI-IDROSSIBUTIRRATO (PHB) BASATA SU COMPOSTI FENOLICI NATURALI PROVENIENTI DA SCARTI DI PRODUZIONE VITI-VINICOLA E RELATIVO METODO DI OTTENIMENTO

(2014)

Lama, G. C.; Nasti, Giuseppe; Ambrogi, Veronica; Cerruti, Pierfrancesco; Gentile, Gennaro; Carfagna, Cosimo

Epoxy elastomers reinforced with functionalized multi-walled carbon nanotubes as stimuli-responsive shape memory materials

(2014) Times of Polymers 2014

Agustin-Salazar, Sarai; Gamez-Meza, Nohemi; Angel Medina-Juarez, Luis; Soto-Valdez, Herlinda; Cerruti, Pierfrancesco

From Nutraceuticals to Materials: Effect of Resveratrol on the Stability of Polylactide

(2014) in ACS sustainable chemistry & engineering

Angelini S.; Cerruti P.; Immirzi B.; Santagata G.; Scarinzi G.; Malinconico M.

From biowaste to bioresource: Effect of a lignocellulosic filler on the properties of poly(3-hydroxybutyrate)

(2014) in International journal of biological macromolecules

Nasti, Giuseppe; Ambrogi, Veronica; Cerruti, Pierfrancesco; Gentile, Gennaro; Di Maio, Rosa; Carfagna, Cosimo

Influence of melt annealing on rheological and electrical properties of compatibilized multiwalled carbon nanotubes in polypropylene

(2014) Times of Polymers 2014

Malinconico, Mario; Cerruti, Pierfrancesco; Santagata, Gabriella; Immirzi, Barbara

Natural polymers and additives in commodity and specialty applications: A challenge for the chemistry of future

(2014) in Macromolecular symposia

Marturano, V.; Ambrogi, Veronica; Cerruti, Pierfrancesco; Giamberini, Marta; Tylkowski, Bartosz

Photo-triggered release in polyamide nanosized capsules

(2014) Times of Polymers 2014

Russo, Pietro; Cammarano, Sara; Bilotti, Emiliano; Peijs, Ton; Cerruti, Pierfrancesco; Acierno, Domenico

Physical Properties of Poly Lactic Acid/Clay Nanocomposite Films: Effect of Filler Content and Annealing Treatment

(2014) in Journal of applied polymer science (Print)

Gentile, Gennaro; Ambrogi, Veronica; Cerruti, Pierfrancesco; Di Maio, Rosa; Nasti, Giuseppe; Carfagna, Cosimo

Pros and cons of melt annealing on the properties of MWCNT/polypropylene composites

(2014) in Polymer degradation and stability

Francesco Masi, Cosimo Carfagna, Pierfrancesco CERRUTI, Paola Persico

Stabilized composition comprising homopolymers or copolymers of ethylene and natural antioxidants

(2014)

Cerruti, P. and Fedi, F. and Avolio, R. and Gentile, G. and Carfagna, C. and Persico, P. and Errico, M.E. and Malinconico, M. and Avella, M.

Up-cycling end-of-use materials: Highly filled thermoplastic composites obtained by loading waste carbon fiber composite into fluidified recycled polystyrene

(2014) in Polymer composites

O. Gennari, S. Grilli, S. Coppola, V. Pagliarulo, V. Vespini, G. Coppola, S. Bhowmick, M. A. Gioffre, G. Gentile, V. Ambrogi, P. Cerruti, C. Carfagna, and P. Ferraro

Spontaneous assembly of carbon-based chains in polymer matrixes through surface charge templates

(2013) in Langmuir

Maria Assunta Basile; Cosimo Carfagna; Pierfrancesco Cerruti; Giovanna Gomez d'Ayala; Angelo Fontana; Agata Gambacorta; Mario Malinconico; Laura Dipasquale

Continuous hydrogen production by immobilized cultures of Thermotoga neapolitana on an acrylic hydrogel with pH-buffering properties

(2012) in RSC advances

Basile, Maria Assunta; Carfagna, Cosimo; Cerruti, Pierfrancesco; d'Ayala, Giovanna Gomez; Fontana, Angelo; Gambacorta, Agata; Malinconico, Mario; Dipasquale, Laura

Continuous hydrogen production by immobilized cultures of Thermotoga neapolitana on an acrylic hydrogel with pH-buffering properties

(2012) in RSC advances

M.A. Basile; C. Carfagna; L. Dipasquale; A. Fontana; A. Gambacorta; G. Gomez d'Ayala; M. Malinconico; P. Cerruti

DEVELOPMENT OF NOVEL IMMOBILIZING HYDROGELS FOR THERMOPHILIC HYDROGEN PRODUCTION

(2012) Nova Science Publishers, New York (Stati Uniti d'America) in Hydrogen Production: Prospects and Processes, 2012

Persico, Paola; Ambrogi, Veronica; Baroni, Antonio; Santagata, Gabriella; Carfagna, Cosimo; Malinconico, Mario; Cerruti, Pierfrancesco

Enhancement of poly(3-hydroxybutyrate) thermal and processing stability using a bio-waste derived additive

(2012) in International journal of biological macromolecules

Cosimo Carfagna, Pierfrancesco Cerruti, Francesco Masi, Paola Persico, Adolfo Izzo Renzi

Stabilized composition comprising homopolymers or copolymers of ethylene and natural antioxidants

(2012)

V. Ambrogi, P. Cerruti, G. Santagata, G. Gomez d Ayala, C. Carfagna, M. Malinconico, P. Persico

Effect of a natural polyphenolic extract on the properties of a biodegradable starch-based polymer

(2011) in Polymer degradation and stability

S. Losio, S. Tagliatela Scafati, M. C. Sacchi, F. Bertini, P. Cerruti

Film poliolefinici con proprietà modulabili per imballaggio alimentare

(2011) XX Convegno italiano di scienza e tecnologia delle macromolecole, Terni, 4-8 Settembre 2011

A. Baroni, G. Santagata, P. Cerruti, V. Ambrogi, P. Persico, M. Malinconico, C. Carfagna

Impiego di scarti della lavorazione del vino per la modifica delle proprietà del poli(3-idrossibutirrato)

(2011) AIM

P. Persico, V. Ambrogi, P. Cerruti, V. Marturano, M. Perrotti, M. Malinconico, C. Carfagna

Natural Additives for Polypropylene Stabilization

(2011) AIM

V. Ambrogi, P. Cerruti, C. Carfagna, M. Malinconico, V. Marturano, M. Perrotti, P. Persico

Natural antioxidants for polypropylene stabilization

(2011) in Polymer degradation and stability

M. Malinconico, M. Avella, L. Affatato, P. Cerruti, P. Persico, M.E. Errico, C. Carfagna

2009-2010 ICTP-ALENIA Contract number: ASPT/T051/EC/EA/0099/10

Evaluation of suitable conditions and technologies aimed to reuse of aircraft materials. Selection and development plans for material and/or feedstock recycling and disposal technologies

(2010)

P. Persico, P. Cerruti, C. Carfagna, A. Izzo, F. Masi

Composizione stabilizzata di omopolimeri o copolimeri dell etilene basata su una combinazione di antiossidanti primari e secondari naturali ad azione sinergica

(2010)

M. Malinconico, P. Cerruti, G. Santagata, P. Laurienzo, L. Affatato

New low-emissivity and long lasting paints for cost effective solar collectors (TERMI SOL)

(2010)

M. Malinconico, P. Cerruti, C. Carfagna, E. Di Pace, G. Gomez d'Ayala, R. Russo, L. Affatato, P. Laurienzo, B. Immirzi, G. Santagata, P. Persico, L. Calandrelli

Progetto Intesa di Programma MIUR/CNR - Progetto TRAIN

(2010)

M. Malinconico, B. Immirzi, P. Cerruti, G. Santagata, L. Affatato, R. Russo

Progetto MIPAF Bando bioenergie a sportello D.M. 247/07 del 23 ottobre 2007 - Tematica: Sviluppo nella filiera del biodiesel di programmi specifici per il recupero di sottoprodotti - settore bioenergetico

(2010)

V. Ambrogi, COSIMO CARFAGNA; PIERFRANCESCO CERRUTI; GIOVANNA GOMEZ D'AYALA; MARIO MALINCONICO; PAOLA PERSICO; GABRIELLA SANTAGATA;

Tailoring mater - bi properties by the use of a biowaste-derived additive

(2010) V International Conference on times of Polymers (TOP) & composites AIP Conference Proceedings, ISCHIA (NA)

Marta Giamberini, Giulio Malucelli, Veronica Ambrogi, Donatella Capitani, Pierfrancesco Cerruti

The effect of chain packing on the thermal and dynamic mechanical behaviour of liquid-crystalline epoxy thermosets

(2010) in Polymer international

Basile, M.A.; Dipasquale L.; Gambacorta A.; Vella M.F.; Calarco A.; Cerruti P.; Malinconico M.; Gomez d Ayala G.

The effect of the surface charge of hydrogel supports on thermophilic biohydrogen production.

(2010) in Bioresource technology

Cerruti P; Carfagna C

Thermal-oxidative degradation of polyamide 6,6 containing metal salts

(2010) in Polymer degradation and stability

V. Ambrogi, P. Cerruti, G. Santagata, G. Gomez d Ayala, M. Malinconico, P. Persico, C. Carfagna

Properties of Mater-Bi modified with a natural biowaste-derived additive

(2010) VII Convegno Nazionale AICIng - AICIng 2010, Bressanone (BZ), 5-8 settembre, 2010., Bressanone

Cerruti P. ; Borbone F. ; Carella A. ; Malinconico M. ; Mormile P. ; Petti L. ; Rippa M. ; Roviello A. and Laurienzo P.

Covalent attachment of chromophores to chlorinated copolymers for optical waveguides: synthesis and optical characterization

(2009) in Polymer (Guildford)

Pierfrancesco Cerruti; Mario Malinconico; Jozef Rychly; Lyda Matisova-Rychla; Cosimo Carfagna

Effect of natural antioxidants on the stability of polypropylene films

(2009) in Polymer degradation and stability

P. Persico, V. Ambrogi, C. Carfagna, P. Cerruti, I. Ferrocino, G. Mauriello

Nanocomposite Polymer Films Containing Carvacrol for Antimicrobial Active Packaging

(2009) in Polymer engineering and science

A. Calarco, M. Calvani, P. Cerruti, P. Laurienzo, M. Malinconico, O. Petillo, G. Peluso

Controlled delivery of plasmid DNA by cationic PCL based biomaterial

(2008) Polymer Processing Society (PPS) 24th Annual Meeting, Salerno, Italy

Basile MA, Cerruti, P. Gambacorta, A. Gomez Dayala, G. Laurienzo P, Malinconico, M. Vella F., Dipasquale, L.

Development of novel polymer matrices for biotechnological hydrogen production

(2008) Polymer for Advanced Applications 24th Annual meeting of the polymer processing Society, Salerno, Italy

P. Persico, V. Ambrogi, P. Cerruti, I. Ferrocino, G. Mauriello, C. Carfagna

ESSENTIAL OILS in NANOCOMPOSITE POLYMER FILMS for ACTIVE PACKAGING

(2008) Nanotech 2008-Nanotechnology for Industry 2015 International Meeting, Venezia

P. Cerruti; C. Carfagna; V. Ambrogio; A. Postiglione; J. Rychly; L. Matisova-Rychla

Morphological and Thermal Properties of Cellulose-Montmorillonite Nanocomposites

(2008) in Biomacromolecules

Marino Lavorgna 1 *, Pierfrancesco Cerruti 2, Gianluca Casula 3, Salvatore Iannace 3, John F. Harper 4

Curing characteristics and mechanical properties of carbon fiber-interlayered fabric composites based on a polyurethane matrix

(2007) in Advances in polymer technology (Print)

P. Cerruti, C. Carfagna, M. Malinconico, C. Cocca, J. Rychly, L. Matisova-Rychla

Effect of natural antioxidants on isotactic polypropylene films oxidation

(2007) AIM, XVIII Convegno Nazionale, Catania

P. Cerruti, C. Cocca, C. Carfagna, M. Malinconico, J. Rychly, L. M. Rychla

Effect of several natural antioxidants on polypropylene films oxidation

(2007) ABPol, 9 Congresso Brasileiro de Polimeros, Campina Grande, Brasile

M. Malinconico, B. Immirzi, S. Pellegrino, P. Cerruti, M. G. Volpe, A. De Falco

Ennoblement of Post-User HDPE

(2007) Polymer Blends, 9th European Symposium, Palermo

M. Malinconico, P. Cerruti, G. Gomez d Ayala

Progetto Hydrobio, FIRB: Stato di avanzamento Linea 3, anno 2007

(2007)

M. Malinconico, P. Cerruti, M. Avella

Progetto europeo INCO TERMISOL

(2007)

P. Cerruti, P. Laurienzo, M. Malinconico, C. Carfagna

Thermal oxidative stability and effect of water on gas transport and mechanical properties in PA6-EVOH films

(2007) in Journal of polymer science. Part B, Polymer physics

P. Cerruti, P. Laurienzo, M. Malinconico, C. Carfagna

Characterization of PA6-EVOH films for packaging applications

(2006) 41° World Polymer Congress (Macro 2006), Rio de Janeiro

P. Laurienzo, M. Malinconico, G. Gomez d Ayala, P. Cerruti, V. Panarese, C. Carfagna

Development of new alginate-based systems for biotechnological hydrogen production

(2006) 41° World Polymer Congress (Macro 2006), Rio de Janeiro

A. De Falco, S. Pindozzi, M. Malinconico, S. Pellegrino, B. Immirzi, P. Cerruti, M. G. Volpe, P. De Prisco, M. Caiazzo

Ennoblement of Post-User HDPE

(2006) ISWA-International Solid Waste Association Annual Congress, Copenhagen

P. Cerruti, C. Carfagna, M. Malinconico

LA PRODUZIONE BIOLOGICA DI IDROGENO: IL RUOLO DEI MATERIALI POLIMERICI

(2006)

Avella, M.; Carfagna, C.; Cerruti, P.; Errico, M. E.; Gentile, G.

Nylon 6 based nanocomposites: influence of calcium carbonate nanoparticles on the thermal stability

(2006) in Macromolecular symposia

M. Malinconico, P. Cerruti, G. Gomez d Ayala

Progetto Hydrobio: Stato di avanzamento Linea 3

(2006)

Concetto Puglisi

Sviluppo e caratterizzazione di materiali polimerici biocompatibili e/o biodegradabili di origine sintetica e naturale

(2006)

P. Cerruti, V. Ambrogio, C. Carfagna, A. Postiglione

Thermal characterization of cellulose-montmorillonite nanocomposites

(2006) 3rd International Conference Times of Polymers (TOP), Ischia (Napoli)

M. Giamberini, V. Ambrogio, P. Cerruti, C. Carfagna

[Viscoelasticity of main chain Liquid Crystalline Elastomers](#)

(2006) 3rd International Conference Times of Polymers (TOP), Ischia (Napoli)
Giamberini Marta *; Ambrogi Veronica**; Cerruti Pierfrancesco ***; Carfagna Cosimo ***

[Viscoelasticity of main chain liquid crystalline elastomers](#)

(2006) in Polymer (Guildford)
Cerruti, P. 1; Lavorgna, M. 3; Carfagna, C. 2; Nicolais L. 1

[Comparison of photo-oxidative degradation of polyamide 6,6 films stabilized with HALS and CuCl₂+KI mixtures](#)

(2005) in Polymer (Guildford)
Ambrogi, V.; Giamberini, M.; Cerruti, P.; Pucci, P.; Menna, N.; Mascolo, R.; Carfagna

[Liquid crystalline elastomers based on diglycidyl terminated rigid monomers and aliphatic acids. Part 1. Synthesis and characterization](#)

(2005) in Polymer (Guildford)
Giamberini, M., Cerruti, P., Ambrogi, V., Vestito, C., Covino, F., Carfagna, C.

[Liquid crystalline elastomers based on diglycidyl terminated rigid monomers and aliphatic acids. Part 2. Mechanical characterization](#)

(2005) in Polymer (Guildford)
Pierfrancesco Cerruti; Jozef Rychly; Lyda Matisova-Rychla; Cosimo Carfagna

[Chemiluminescence from oxidation of polyamide 6,6 II. The effect of metal salts](#)

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