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Eugenio Amendola

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Address: P.le E. Fermi 1, Loc. Granatello, Portici, 80055 , Naples, Italy (Work)

ABOUT ME

Research Director at Institute of Polymers, Composite and Biomaterials of the National Research Council of Italy (IPCB - CNR)

WORK EXPERIENCE

14/06/2023 – CURRENT Naples, Italy

ACTING DIRECTOR OF INSTITUTE OF POLYMERS, COMPOSITES AND BIOMATERIALS NATIONAL RESEARCH COUNCIL NATIONAL RESEARCH COUNCIL

The IPCB, derived from the merging of IMCB and ICTP. The main office of the Institute is located in Pozzuoli while the secondary offices are in Naples/Portici, Catania, Lecco and, a third-party research unit, in Lecce at the University of Salento.
The Institute of Polymers, Composites and Biomaterials (IPCB) is the main research institute of the National Research Council (CNR) active in the fields of polymeric materials, composites and biomaterials, as well as biomacromolecules, green chemistry and chemistry for life sciences.
The research activities of the IPCB are organized into three main research platforms such as *Sustainability, Advanced Materials, Health and Nanomedicine*
New additional directions of future activity are focused on strengthening the Institute's competences in the field of Space Economy and on the development of Reusable, Recyclable and Self-Healing Composite Materials.
At the same time, great attention is paid to strengthening administrative support for research activities.

01/06/2022 – CURRENT Naples, Italy

RESEARCH DIRECTOR NATIONAL RESEARCH COUNCIL - INSTITUTE OF POLYMERS, COMPOSITES AND BIOMATERIALS

The main activity is focused on the acquisition and management of scientific research projects and on the coordination of the research activity of the CNR Institute in the field of functional polymers and structural composites for applications in industrial fields, such as aerospace, automotive, coatings and adhesives.
Strengthening of the Institute's positioning in strategic application fields, such as for example the development of innovative materials with reduced environmental impact and reusable or recyclable.
Furthermore, he coordinated the laboratories of the Institute for the Synthesis of Functional Thermoplastic Polymers and for the Spectroscopic and Thermoanalytical Characterization of Polymers and Composites.

20/11/2012 – 26/02/2014 Naples, Italy

ACTING DIRECTOR OF INSTITUTE OF COMPOSITE MATERIALS AND BIOMATERIALS NATIONAL RESEARCH COUNCIL NATIONAL RESEARCH COUNCIL

The IMCB Institute was accredited with the highest ranking among the CNR Institutes of the Material Chemistry Department for the quality of scientific production, and for the planning capacity of funded research activities at national and international level. Therefore, the activity was focused on strengthening IMCB's competences in the field of polymers and composites for engineering applications and in the field of biomaterials, maintaining a soft and multidisciplinary balance between engineering, chemistry, physics and life sciences. The important financial contribution deriving from public and private projects has allowed the hiring of young researchers and the acquisition of cutting-edge scientific equipment for the continuation of the research activity at a level of excellence.

At the same time, the institute had to face the criticality of the transfer to two new sites, for both administrative headquarters and laboratories.
Two buildings were completely designed and renovated according to specific requirements of the IMCB activity at:

- pavilion 20 of Mostra d'Oltremare, in the Fuorigrotta - Naples
- C&D buildings of the ENEA Portici research Center, Portici - Naples.

The design of new buildings, the development of laboratories logistics and realisation of all tecnical stages was developed during 2013 and first quarter of 2014. All phases, very complex from a technical and logistical point of view, were successfully carried out due to extraordinary dedication of all IMCB staff.

01/01/2001 – 30/05/2022 Naples, Italy

SENIOR RESEARCHER NATIONAL RESEARCH COUNCIL - INSTITUTE OF COMPOSITE MATERIALS AND BIOMATERIALS

The main activity has been focused on the development and management of scientific research projects, both academic and industrial, and on the coordination of the research activity entrusted to the CNR Institute in relevant sectors such as aerospace, automotive and marine. The contribution was focused on the development of innovative polymeric materials and thermosetting resins, on nanocomposites with high thermal and electrical conductivity, on the study of the interfacial properties between matrix and filler in traditional composites and nanocomposites.
Furthermore, he coordinated the laboratories of the Institute for the Synthesis of Functional Thermoplastic Polymers and for the Spectroscopic and Thermoanalytical Characterization of Polymers and Composites

02/07/1999 – 31/12/2000 Naples, Italy

RESEARCHER, FIXED TERM EMPLOYMENT CONTRACT NATIONAL RESEARCH COUNCIL - INSTITUTE OF COMPOSITE MATERIALS TECHNOLOGY

Research activity was focused on "Synthesis of innovative thermosetting resins to be used for formulation of toughned advanced composites. The aforementioned materials specification will be pursued by development of liquid cristalline phase developed during resin curing, resulting in the formation of oriented and aligned domains able to deviate crcak propagation".
Development of research activity in the field of Materials Science, Polymer Science and Composite Manufacturing. Technical management of research laboratories.

01/07/1994 – 30/06/1999 Naples, Italy

RESEARCHER, FIXED TERM EMPLOYMENT CONTRACT NATIONAL RESEARCH COUNCIL - INSTITUTE OF COMPOSITE MATERIALS TECHNOLOGY

Research activity was focused on: "Modeling of curing stage of liquid cristalline epoxy resins, crosslinking of thermoset under the effects of electromagnetic field, analysis of non linear optical properties".
Development of research activity in the field of Materials Science, Polymer Science and Composite Manufacturing. Technical management of research laboratories.

01/07/1989 – 15/06/1994 Naples, Italy

RESEARCHER, FIXED TERM EMPLOYMENT CONTRACT NATIONAL RESEARCH COUNCIL - INSTITUTE OF COMPOSITE MATERIALS TECHNOLOGY

The main focus of the research activity was the study of liquid crystalline thermoplastic polymers and the relationship between mechanical properties (modulus and strength) with macromolecular structure and fibers orientation developed during spinning and drawing.
Development of research activity in the field of Materials Science, Polymer Science and Composite Manufacturing. Technical management of research laboratories.

2012 Naples, Italy

ADJUNT CONTRACT PROFESSOR UNIVERSITY OF NAPLES "FEDERICO II", MECHANICAL ENGINEERING FACULTY

Academic year 2011/12
Teaching Module of 3 credits (16 hours) for "Laboratory of Polymer Technology" course.
Student assistance.
Evaluation exams.

2011 Naples, Italy
ADJUNT CONTRACT PROFESSOR UNIVERSITY OF NAPLES “FEDERICO II”, CHEMICAL ENGINEERING FACULTY

Academic year 2010/11
Teaching Module of 3 credits (16 hours) for “Laboratory of Polymer Technology” course.
Student assistance.
Evaluation exams.

2007 Naples, Italy
ADJUNT CONTRACT PROFESSOR UNIVERSITY OF NAPLES “FEDERICO II”, MATERIALS ENGINEERING FACULTY

Academic year 2006/2007.
Teaching Module of 4 credits (50 hours) for “Materials for Food Packaging”.
Student assistance.
Evaluation exams.

2006 Naples, Italy
ADJUNT CONTRACT PROFESSOR UNIVERSITY OF NAPLES “FEDERICO II”, AERONAUTICAL ENGINEERING FACULTY

Academic year 2005/06
2004/05
2003/04
Teaching Module of 4 credits (60 hours) for “Aerospace Materials Science and Technology”.
Student assistance.
Evaluation exams.

2003 Naples, Italy
ADJUNT CONTRACT PROFESSOR UNIVERSITY OF NAPLES "FEDERICO II", FACULTY OF MATERIALS ENGINEERING

Academic year 2002/2003.
Teaching Module of 18 hours for “Chemistry”.
Student assistance.
Evaluation exams.

2000 Salerno, Italy
ADJUNT CONTRACT PROFESSOR UNIVERSITY OF SALERNO, FACULTY OF CHEMICAL ENGINEERING

Academic Year 1999/2000
Teaching activity of 60 hours, in “Materials Technology and Applied Chemistry”.
Student assistance.
Evaluation exams.

1999 Salerno, Italy
ADJUNT CONTRACT PROFESSOR UNIVERSITY OF SALERNO, FACULTY OF CHEMICAL ENGINEERING

Academic year 1998/99.
Teaching Module of 18 hours for “Applied Chemistry”.
Student assistance.
Evaluation exams.

1997 Naples, Italy
ADJUNT CONTRACT PROFESSOR UNIVERSITY OF NAPLES "FEDERICO II", FACULTY OF ELECTRONIC ENGINEERING AND MECHANIC ENGINEERING

Academic year 1996/97.
Teaching Module of 18 hours for “Chemistry”.
Student assistance.
Evaluation exams.

1996 Naples, Italy
ADJUNT CONTRACT PROFESSOR UNIVERSITY OF NAPLES “FEDERICO II”, FACULTY OF AUTOMATIC AND INFORMATIC ENGINEERING

Academic year 1995/96.
Teaching Module of 18 hours for “Chemistry”.
Student assistance.
Evaluation exams.

1993 Naples, Italy
ADJUNT CONTRACT PROFESSOR UNIVERSITY OF NAPLES “FEDERICO II”, FACULTY OF ELECTRONIC ENGINEERING

Academic year 1992/93.
1991/92.
1990/91.
Teaching Module of 20 hours for “Chemistry”.
Student assistance.
Evaluation exams.

2013 Bath, United Kingdom
PHD INTERNATIONAL EVALUATION BOARD UNIVERSITY OF BATH, DEPARTMENT OF MECHANICAL ENGINEERING

Evaluation of research results and revision suggestions.

1995 – 2013 Naples, Italy
MENTORING OF PHD CANDIDATE UNIVERSITY OF NAPLES "FEDERICO II" - DEPARTMENT OF MATERIALS CHEMISTRY AND INDUSTRIAL ENGINEERING

Mentoring, coordination and assistance of scientific activity carried out at the University of Naples, Department of Materials Chemistry and Industrial Production.
9 candidates were assisted during the full qualification period.

06/07/2012 – 01/03/2017
SCIENTIFIC COORDINATOR OF THE RESEARCH AGREEMENT BETWEEN CNR AND SABIC NATIONAL RESEARCH COUNCIL

SABIC is a Saudi company active in the petrochemical, chemical, industrial polymers, fertilizers and metals sectors. It is the largest public company in the Middle East and Saudi Arabia listed on Tadawul.
Promote, coordinate and monitor the advancement of proposals and collaborations between the two institutions.
6/03/2014 March Scientific Liaison Officer for the CNR/SABIC.

MEMBER OF THE IMCB SCIENTIFIC COUNCIL NATIONAL RESEARCH COUNCIL

1999, 2001
1994, 1999

with the task to support IMCB Director in the scientific management policy of the Institute

2005 – 2014
COORDINATOR OF RESEARCH ACTIVITY PM.P02.003 NATIONAL RESEARCH COUNCIL

Coordinator of research activity of Working Group on Polymers, Composites and Nanostructures with Taylored Functional Properties, CNR Department for Chemical Sciences and Materials Technologies.

2006 – 2016
COLLABORATION WITH KYOTO INSTITUTE OF TECHNOLOGY (KIT)

The collaboration with the research group led by prof. Giuseppe Pezzotti started in 2006. Pezzotti is Full Professor of Physics of Ceramic Materials at the Kyoto Institute of Technology, co-founder and director of

"Research Institute on Nanoscience" (RIN) and "CNR Research Unit located in Japan, Kyoto", co-founder and manager of Piezotech Japan, Ltd.
Main activities developed during the collaboration were:

2007

- Contact person for CNR IMCB at the “Research Institute on Nanoscience” (RIN), a joint lab funded by Italian Ministry of Foreign Affairs in cooperation with KIT and CNR.
- Contribution to the CNR delegation to “Primavera Italiana in Giappone 2007”.
- Presentation of research activity performed in collaboration between IMCB and RIN on polimeric nanocomposites.
- Definition of a scientific collaboration program between RIN and CNR concerning the spectroscopic characterization of composite materials and biomaterials.

2007 – 2010

- Collaboration with the CNR Research Unit located in Japan, Kyoto (Unità Distaccata in Giappone).
- Collaboration with Piezotech Japan, Ltd., spin-off of the Research Institute on Nanoscience, Kyoto.

2013

- Collaboration to the “Italy Meets Asia” Science Symposium held during april 2013 in Kyoto. The Symposium brought selected Guests together to discuss on the development of the scientific and technological collaborations between Italy and the Asiatic countries.
- Chairman of the scientific program of the “Italy Meets Asia” Science Symposium

2015

- Partecipation of bilateral research project on spectroscopic characterization of self-healing thermosets and reinforced composites.
- Preparation and synthesis of new materials, definition of experimental design, analysis of data and writing of scientific report and paper.

Visit to Kyoto Institute of Technology:
15/05/2007 - 25/05/2007
5/05/2008 - 18/05/2008
1/06/2009 - 14/06/2009
20/04/2013 - 29/04/2013
1/11/2015 - 14/11/2015

RESEARCH ASSOCIATE AT FOREIGN RESEARCH INSTITUTION

Research activities were carried out in the laboratory were accompanied by internal seminars and workshops, study of scientific literature, writing of reports and articles.

6/11/2019 - 5/12/2019
State Key Laboratories of Polymer Materials Engineering
Polymer Research Institute
Sichuan University, Chengdu - Cina. Coordinator prof. Hescheng Xia.
Visit to Chengdu University to perform research activity in field of self-healing epoxy composites.

1/09/2017 - 30/09/2017
State Key Laboratories of Polymer Materials Engineering
Polymer Research Institute
Sichuan University, Chengdu - Cina. Coordinator prof. Hescheng Xia.
Visit to Chengdu University to perform research activity in field of graphene reinforced aerogel.

15/04/1997 - 15/07/1997
Chalmers University of Technology, Goteborg, Sweden. Coordinator Prof. L. Komitov.
Visit to Chalmers Polytechnic in the mainframe of bilateral exchange pragramme to perform research activity on the use of liquid crystalline polymers as orienting substrates for liquid crystal display.

20/09/1995 - 20/12/1995
Chalmers University of Technology, Goteborg, Sweden. Coordinator Prof. L. Komitov.
Visit to Chalmers Polytechnic in the mainframe of bilateral exchange pragramme to perform research activity on the optical properties of crosslinked liquid crystalline epoxy resins.

12/04/1994 - 12/07/1994
Chalmers University of Technology, Goteborg, Sweden. Coordinator Prof. L. Komitov.
Visit to Chalmers Polytechnic in the mainframe of bilateral exchange pragramme to perform research activity on structure of nematic epoxy resin cured under electromagnetic fields.

05/09/1989 - 05/12/1989
Institute of Materials Science, University of Connecticut, USA. Coordinator Prof. A.T. Di Benedetto.

Visit to the laboratories of UConn IMS to perform research activities on spectroscpic characterization of polymer fibers and relationship between mechanical properties and morphology.

15/04/1988 - 15/07/1988
Institute of Materials Science, University of Connecticut, USA. Coordinator Prof. A.T. Di Benedetto.
Visit to the laboratories of UConn IMS to perform researchactivities on thermotropic liquid crystalline polymer processing and fiber spinning.

2012 – CURRENT
SCIENTIFIC EVALUATOR AND REVIEWER OF RESEARCH PROJECTS

2012 - 2014
M-ERA.NET;

2008
Regione Marche;

2006 - 2013
Regione Piemonte;

2006
Regione Liguria;

2005 - Current
Italian Ministry of Economical Development (Ministero dello Sviluppo Economico);

2004 - 2006
Regione Emilia Romagna;

2003 - Current
Italian Ministry of University and Research (Ministero dell'Università e della Ricerca).

Evaluation of industrial research projects submitted to public funding programs in the field of polymers and composite materials.

01/01/2012 – 31/12/2014
PRESIDENT ITALIAN CHEMICAL SOCIETY , CAMPANIA REGIONAL SECTION

The Italian Chemical Society is a non-profit cultural association. Its purpose is to promote and follow the development and progress of chemistry and related sciences, promoting scientific research, spreading knowledge of chemistry.

Organization of scientific and educational activities of the Association in the regional area. Budget management

01/01/2003 – 31/12/2005
SECRETARY TREASURER ITALIAN CHEMICAL SOCIETY , CAMPANIA REGIONAL SECTION

The Italian Chemical Society is a non-profit cultural association. Its purpose is to promote and follow the development and progress of chemistry and related sciences, promoting scientific research, spreading knowledge of chemistry.

Supporting the organization of scientific and educational activities of the Association in the regional area. Supporting budget management

EDUCATION AND TRAINING

07/11/1987 Naples, Italy
CHEMIST'S DIPLOMA QUALIFICATION University of Naples "Federico II"

Website www.unina.it

01/10/1980 – 22/06/1986 Naples, Italy
DEGREE IN INDUSTRIAL CHEMISTRY, 110/110 WITH HONORS University of Naples "Federico II"

Website www.unina.it

07/1980 Naples, Italy
CLASSICAL HIGH SCHOOL DIPLOMA Liceo Ginnasio Statale Jacopo Sannazaro

LANGUAGE SKILLS

Mother tongue(s): **ITALIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C1	C1	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Office | Microsoft Word | Microsoft Excel | Graphical Editing | Engineering drawing (SOLIDWORKS)

ADDITIONAL INFORMATION

PUBLICATIONS

Scopus indexed Publication
110 scientific publication indexed by Scopus in the field of polymer science; addressing the topics of self healing, liquid crystalline thermoplastic and thermosets, epoxy resin, adhesives, nanocomposites, structural application of composites, synthesis of innovative epoxy resin just to name a few.
Over 130 partecipations to scientific conferences
Scopus H index 27
Google Scholar H index 31

NETWORKS AND MEMBERSHIPS

Italy
Italian Interuniversitary Consortium for Science and Technology of Materials

1998 – CURRENT Italy
Italian Society of Macromolecules

1996 – CURRENT Italy
Italian Society of Liquid Crystals

1989 – CURRENT Italy
Italian Chemical SOciety

1996 USA
Materials Research Society

PROJECTS

Leader of scientific activity in funded projects Coordination of scientific activity and management of resources allocated to the Institute in the mainframe of the following funded projects:

01/07/2023, ongoing - Italian Ministry funded project "MIRABILE - Sustainable Materials and Technological Solutions for Automotive Components with Reduced Environmental Impact and High Performance".

1/01/2013, 31/12/2014 - CNR funded project “Integrated Technological Solutions for Zero Waste Recycling

of Printed Circuit Board (PCBs) (ZeroWastePCBs)";

1/06/2012, 30/6/2015 - Italian Ministry funded project DM 00029_3205863 “PRocessi Ausiliari: le giunzioni aDesive e il rEpairing, (PRADE)" related to development of structural adhesive joints and their repairing;

1/11/2012, 30/06/2015 - European funded project FP7-AAT-2012-RTD-1, Grant 314768, "ALAMSA, A Life-cycle Autonomous Modular System for Aircraft Material State Evaluation and Restoring System". Leader of CNR activity and WP1 leader. Project leader University of Bath (UK);

1/12/2010, 30/11/2011 - ABB (Swiss company) funded project "Liquid Crystalline Epoxy with High Thermal Conductivity";

1/1/2008, 31/12/2008 - Ferrania Technologies (Italian company) funded project "Polymeric Film with Low Coefficient of Thermal Expansion for Optical Applications";

1/07/2007, 30/06/2011 - Italian Ministry funded project "POLIFLEX - High Performance Polymers for Flexible Electronic
Devices Fabrication” (Bando "idee progettuali" – progetto di ricerca di base, Protocollo: RBIP06SH3W;

1/07/2007, 30/06/2011 - Italian Ministry funded project "PRICE, Epoxy Prepreg for aerspace applications”;
1/09/2006, 31/08/2010 - Italian Ministry funded project "TRIPODE, Polymers for Electronic Devices”;

1/01/2003, 31/12/2006 - Italian Ministry funded project "MICROPOLYS Polymer Based Electronic Microsystems" - PNR 2001-2003 (FIRB art.8). Scientific leader and coordinator for activity of Research Unit including Materials and Production Engineering Department of University of Naples, Chemical and Food Engineering of University of Salerno, Institute of Composite Materials and Biomaterials of CNR;

1/01/2003, 31/12/2006 - Italian Ministry funded project "Composite Materials for Industrial Applications – Structural materials with Advances Thermal or Structural Properties";

1/01/2003, 31/12/2006 - Italian Ministry funded project, research leader of Work Package 1 activity “Design and
Realisation of Composite Seat for Fast Passenger Ships” and Work Package 2 “Design and Realisation of Pantograph in
Composite Material for High-Speed Trains";

1/1/2000, 31/12/2001 - European CRAFT project 1999-70249 FIBREFORM, “Development of a Simple, Lowcost
Method of Pre-forming Glass Fibres for Reinforced Plastic Parts to Significantly Reduce SME Manufacturing Costs”.

1/1/1998, 31/12/2000 - CNR project “Composite materials for aerospace applications”, within the mainframe of CNR project “Advanced Materials and Technologies Development II”

MANAGEMENT AND LEADERSHIP SKILLS

Leader of Industrial Research Teams. The development of transversal skills, such as problem solving, scientific communication and teamwork in collaborative and multidisciplinary fields, has allowed the coordination and guidance of industrial research groups and the carrying out of training and technology transfer activities in the following industrial sectors:

2002 - Current.
Collaboration with the *CRdC* consortium "*Centro Regionale di Competenze Nuove Tecnologie per la Attività Produttive*", participated by the Public Research Bodies of the regional territory and created to build a collaborative interface between the world of Research and that of industrial engineering.
Coordination of research projects, technology transfer and training activity to support companies in technological areas including polymeric materials, composites and biomaterials.

2020 - Current
2010 - 2011
Management of industrial research project and coordination of R&D team for EKD-Projects, a worldwide company leader in development of silicone coating for high voltage suspended or substation insulator. The activity was focused in the selection and formulation of silicone coatings compliant to highly demanding environments and in the development of suitable processing cycles.

2018 - 2022

Coordination of R&D team of Getra Power company, leading Italian company in the design, production and supply of power transformers, distribution transformers and interconnection solutions for the electricity grid. The activity was focuesd in the quality analysis and certification procedure of high voltage power transformers.

2018 - 2022
Coordination of research projects and supervision of the R&D team of Vernital, a leading company in industrial coatings. The activity included the development of innovative epoxy-based coatings for application in relevant industrial sectors, such as oil and gas pipelines, petrochemical plants and infrastructure.

2002 - 2208
2021 - 2022
Coordination of research projects and R&D team for SeiEffe Industries, owner of the Okite brand leading company in the production of quarz reinforced composites. The collaboration activity included the supervision of the industrial production site, the identification and certification of improved production procedures, the development and study of new materials.

ORGANISATIONAL SKILLS

Multidisciplinarity and Knowledge Integration After the academic training in Industrial Chemistry, specifically in Macromolecule Chemistry,
the research activity has developed in collaborative and multidisciplinary fields, integrating skills in chemistry, engineering, physics and biomaterials.
The design and synthesis of new materials was combined with the ability to identify predictive models in simplified environments and with the characterization of their structural properties.
The development of transversal skills, such as problem solving, scientific communication and teamwork were the basis for the development of the specific technical-scientific skills indicated below.

Scientific skills and competences - Self Healing thermosets for advanced applications Self-healing polymers are a class of smart materials able to recover after sustaining damage. An innovative approach makes use of the Diels-Alder (DA) reaction. DA adducts can be incorporated directly in the matrix backbone as functionalities on the uncured monomers. In such a way, the cured resin overcomes the single-use limitation of conventional self healing materials based on encapsulated reactants and undergoes multiple temperature-dependent healing cycles. Performances of cured epoxy has been evaluated by scratch recovery analysis, micromechanical (nanindentation) tests and bending tests on pristine sample and after complete thermal treatments. A satisfactory morphological and mechanical recovery has been achieved leading to very promising application in the field of adhesives, coatings and structural applications.

Scientific skills and competences - Advanced Polymeric Materials for Cultural Heritage Restoration and Preservation. Polymeric high performance composite materials have been proposed for the preservation and structural restoration of cultural heritage. The investigation of interfacial interaction for long term durability and reversibility of restoration application has been studied. The application of synthetic structural adhesives and consolidating resins has resulted in full restoration of ancient wood structure degradedb by heavy fungine and insect attack.

Scientific skills and competences - Polymeric material for electronic applications. In the recent years, great interest has been devoted to polymeric materials by electronic industries. The advantages of light-weight and mechanically robust moterials, coupled to high yeld and cheap processing techniques, have driven the development of new devices, such as displays and sensors. In these applications polymeric materials are used for both substrate and functional materials production, leading to the conversion of all-plastic devices.

Scientific skills and competences - Polymeric materials containing nano-composite reinforcement for structural appications. Thermoplastic matrix composites containing nano dispersed clay particles have been investigated. Exfoliation of clay particles is accomplished during mixture processing, and is enabled by the addition of suitable organic modifier into the clay additive. Due to the very small dimensions of reinforcing phase particles, nanocomposites are suitable for easy recycling, and are considered as a environmentally friendly materials. One of the most promising application is the production of body panels for automotive industry.

Scientific skills and competences - Thermo-actuated Liquid-Crystalline fibers. Highly oriented liquid crystalline polyester fibers have been spun and hot drawn. UV light induced crosslinking has been induced for structure stabilisation. Heating sample fibers above their liquid cristalline-to-isotropic transtion induces a reversibile contraction of 50% of the initial length. Flory theory on iquid crystalline networks has been firstly

validated by the studies of these LC fibers. The unique thermal-mechanical properties of LC fibers enables the design of microactuators and synthetic muscles for robotic applications.

Scientific skills and competences - Reactive Processing. The activation of chemical reactions at the interface in incompatibile polymeric blends processing has been exploited in the processing of polymers collected from differential wastes. A grafting additive has been added to achieve suitable mechanical properties. Spectroscopic and calorimetric techniques have been used for material and processing characterization.

Scientific skills and competences - Thermosetting liquid crystalline resins. New *thermosetting liquid crystalline resins* have been designed, synthesized and characterized. The crosslinking reaction and the effects of reaction kinetic of liquid crystalline phase development has been investigated.
Orientation of Epoxy Liquid Crystalline Resins by means of external force fields. Due to molecular features, responsible for the liquid cristalline phase development, this class of materials canbe uniformly aligned along a preferred direction referred to as nematic director. The molecular orientation so far obtained is stable over a broad range of temperature and pressure. Oriented materials are evaluated for electro-optical applications.

Scientific skills and competences - Engineering thermoplastics reinforced with liquid crystalline fibers. During polymeric blend processing the fibrous morphology has been induced in the liquid crystalline inclusions. A strong mechanical properties improvement has been achieved along fiber direction.
Fiber morphology obtained during blend extrusion ha been related to processing parameters and mechanical properties of materials. Gas and water molecules diffusion has been related to the liquid crystalline morphology. Moreover, a compatibilizer has been synthesized, with the aim to improbe the mechanical adhesion between the incompatibile polymeric phases.

Scientific skills and competences - Synthesis and characterization of Liquid Crystalline Thermotropic Polyesters. Properties of Liquid Cristalline phases have been related to molecular structure of polymers. Several classes of polymers have been synthesized with varying flexible spacers and rigid mesogenic moieties.

The undersigned, in accordance with Article 13 of the European Regulation (EU) 2016/679 and Legislative Decree 196/2003, authorizes the use of the personal data provided in this curriculm vitae for the stated purposes.

Napoli , 18/09/2023

Eugenio Amendola

Eugenio
Amendola
22.09.2023
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Documents

Export Date: 21 Sep 2023
Search: AU-ID("Amendola, Eugenio" 56227414200)

1) Palmieri, B., Cilento, F., Amendola, E., Valente, T., Dello Iacono, S., Giordano, M., Martone, A.
An Investigation of the Healing Efficiency of Epoxy Vitrimer Composites Based on Zn2+ Catalyst
(2023) Polymers, 15 (17), art. no. 3611, .

1) https://www.scopus.com/inward/record.uri?eid=2-s2.0-85170363766&doi=10.3390%2fpolym15173611&partnerID=40&md5=54e
DOI: 10.3390/polym15173611

Document Type: Article
Publication Stage: Final
Access Type: Open Access
Source: Scopus

2) Amendola, E., Palmieri, B., Dello Iacono, S., Martone, A.
Thermally Mendable Self-Healing Epoxy Coating for Corrosion Protection in Marine Environments
(2023) Materials, 16 (5), art. no. 1775, . Cited 1 time.

2) https://www.scopus.com/inward/record.uri?eid=2-s2.0-85149813770&doi=10.3390%2fma16051775&partnerID=40&md5=a6a97
DOI: 10.3390/ma16051775

Document Type: Article
Publication Stage: Final
Access Type: Open Access
Source: Scopus

3) Palmieri, B., Cilento, F., Martone, A., Giordano, M., Amendola, E.
Viscoelastic characterization of reformable epoxy vitrimers composites
(2023) Materials Research Proceedings, 28, pp. 1871-1878.

3) https://www.scopus.com/inward/record.uri?eid=2-s2.0-85160257713&doi=10.21741%2f9781644902479-202&partnerID=40&md
DOI: 10.21741/9781644902479-202

Document Type: Conference Paper
Publication Stage: Final
Access Type: Open Access
Source: Scopus

4) De Martino, S., Battisti, M., Napolitano, F., Palladino, A., Serpico, L., Amendola, E., Martone, A., De Girolamo, P., Squillace, A., Dardano, P., De Stefano, L., Dello Iacono, S.
Effect of microneedles shape on skin penetration and transdermal drug administration
(2022) Biomaterials Advances, 142, art. no. 213169, . Cited 3 times.

4)

https://www.scopus.com/inward/record.uri?eid=2-s2.0-85140431437&doi=10.1016%2fj.bioadv.2022.213169&partnerID=40&md
DOI: 10.1016/j.bioadv.2022.213169

Document Type: Article
Publication Stage: Final
Source: Scopus

5) Guo, Q., Amendola, E., Lavorgna, M., Li, Z., Feng, H., Wu, Y., Fei, G., Wang, Z., Xia, H.
Robust and recyclable graphene/chitosan composite aerogel microspheres for adsorption of oil pollutants from water
(2022) Carbohydrate Polymers, 290, art. no. 119416, . Cited 10 times.

5) https://www.scopus.com/inward/record.uri?eid=2-s2.0-85128527206&doi=10.1016%2fj.carbpol.2022.119416&partnerID=40&mo
DOI: 10.1016/j.carbpol.2022.119416

Document Type: Article
Publication Stage: Final
Source: Scopus

6) Palmieri, B., Amendola, E., Martone, A., Giordano, M.
ENABLING REPAIRABILITY AND REUSE OF EPOXY COMPOSITES: EPOXY VITRIMERS
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