

## PERSONAL INFORMATION

Scaffaro, Roberto:

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Nationality: Italian

URL for web site: <http://www.unipa.it/persone/docenti/s/roberto.scaffaro>

### • EDUCATION

- 1997 **PhD**, Faculty of Engineering/ Department of Chemical Engineering, Processing and Materials, University of Palermo/ Italy
- 1993 **Master**, Faculty of Engineering/ Department of Chemical Engineering, Processing and Materials, University of Palermo/ Italy

### • CURRENT POSITION(S)

- 2016 – present **Full professor in Material Science and Technology**, Faculty of Engineering/ Department of Engineering (DI), University of Palermo/ Italy

### • PREVIOUS POSITIONS

- 2012 – 2016 **Associate professor in Material Science and Technology**, Polytechnic School/ Department of Civil, Environmental, Aerospace, Materials Engineering (DICAM), University of Palermo/ Italy
- 2005 – 2012 **Associate professor in Material Science and Technology**, Faculty of Engineering/ Department of Chemical Engineering, Processing and Materials, University of Palermo/ Italy
- 2000 – 2004 **Assistant professor in Material Science and Technology**, Faculty of Engineering/ Department of Chemical Engineering, Processing and Materials, University of Palermo/ Italy
- 1998-2000 **Post doc fellow**, Faculty of Engineering/ Department of Chemical Engineering, Processing and Materials, University of Palermo/ Italy

### • FELLOWSHIPS AND AWARDS

- 1997– 1999 CNR97.00900PF34 Scholarship, Faculty of Engineering/ Department of Chemical Engineering, Processing and Materials, University of Palermo/ Italy
- 1994 Copernicus Scholarship and Eniricerche, Faculty of Engineering/ Department of Chemical Engineering, Processing and Materials, University of Palermo/ Italy
- 1993 Best master thesis, award received from EniChem / Italy
- 1987 - 1988 Best student, award received from EniChem / Italy

### • SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 2012 – present **Postdocs: 7/ PhD: 6/ Master Students: 35**; Polytechnic School/ Dept. of Civil, Environmental, Aerospace, Materials Engineering (DICAM), University of Palermo/ Italy
- 1997 – 2012 **Postdocs: 1/ PhD: 4/ Master Students: 43**; Faculty of Engineering/ Dept. of Chemical Engineering, Processing and Materials, University of Palermo/ Italy

### • UNIVERSITY TEACHING ACTIVITIES (topics)

- 2016 – present **Full professor** – Biomaterials, Environmental chemistry, Materials science and technology, Polymeric materials, University of Palermo/ Italy
- 2006 **Associate professor** – Cycle of seminars:mechanical properties of polymers, statistical design of experiments/University of California-Los Angeles (UCLA)/USA
- 2005 – 2016 **Associate professor** – Environmental chemistry, Materials science and technology, Polymeric materials, University of Palermo/ Italy
- 2005 – 2016 **Associate professor** – Seminars about polymer processing-properties-relationship/ University of Skopje/Macedonia
- 2003 **Assistant Professor**– Characterization and properties of polymeric materials, VII AIMAT School/ Italy
- 2000 – 2004 **Assistant Professor**– Environmental chemistry, Applied chemistry and materials technology,

- **PUBLICATIONS (source=Scopus)**

**181 papers**

**18 conference papers**

**6 book chapters**

**2 patents**

**265 conference presentations**

**H-index=44, citations=6013**

- **ORGANISATION OF SCIENTIFIC MEETINGS**

- 2023 MoDeSt conference “Polymers and Biopolymers for sustainable life and applications”, Sofia (Bulgaria)
- 2023 AIMAT, Italiana association of Materials , Catania (Italy)
- 2022 MoDeSt conference “Polymers”, Salina (Italy)
- 2021 Polymers and sustainability, Lampedusa (Italy)
- 2019 Materials for the next decade, Favignana (Italy)
- 2019 Polymer Blends-Eurofiller 2019, Palermo (Italy)
- 2017 Organizing and Scientific Committee, XIX Materials Science and Technology School INSTM/Italy
- 2017 Organizing Committee, Nano Materials and BioMaterials for the next Decade, MoDeSt Workshop /Italy
- 2012 Organizing Committee, XII Convegno Nazionale di Reologia – Società Italiana di Reologia/Italy
- 2009 Organizing Committee and Secretariat of the International conference "Polymerfest"/Italy
- 2007 Member of Organizing Committee, 9th European Symposium on Polymer Blends/Italy
- 2006 Member of Organizing Committee VIII Convegno Nazionale di Scienza e Tecnologia dei Materiali (AIMAT)/ Italy
- 2000 Member of Conference Committee in 1st Conference on Modification, degradation, stabilization of polymers (MoDeSt)/Italy
- 1995 Member of Organizing Committee, XII Convegno Italiano di Scienza e Tecnologia delle Macromolecole (AIM)/Italy

- **INSTITUTIONAL RESPONSIBILITIES**

- 2021-present Coordinator of the Master Degree course in Biomedical Engineering, Univ. of Palermo/Italy
- 2019-present Member of the Engineering Department Council/University of Palermo/Italy
- 2019-present Member of the Engineering Steering Committee/University of Palermo/Italy
- 2016 – 2021 Coordinator of the Master Degree course in Materials Engineering, University of Palermo/Italy
- 2016 – 2019 Member of Polytechnic School Board/ University of Palermo/Italy
- 2013 - 2018 Member of Department research Committee/University of Palermo/Italy
- 2012 – 2014 Member of the Joint Committee Teachers-Students/ Faculty of Architecture/University of Palermo/Italy
- 2008 – 2013 Responsible students internship and graduated students of Master Degree course in Chemical Engineering /University of Palermo/Italy
- 2004 – 2007 Member of the Joint Committee Teachers-Students for Industrial Design Course, /University of Palermo/Italy

- **COMMISSIONS OF TRUST**

- 2020-present Editorial board (guest) of “Materials (ISSN 1996-1944)
- 2019-present Editorial board of “Journal of Composites Science” (ISSN: 2504-477X)
- 2017-present Editorial board of “Polymers” (ISSN 2073-4360)

2017 – present Editorial Board of “Advanced Composites and Hybrid Materials” (ISSN 2522-0128)/USA  
2011 – 2014 Editorial Board of “International Scholarly Research Notices” (ISSN:2356-7872)/UK

#### • MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2004 – present Member of the Italian Society of Rheology/Italy  
2000 – present Member of the International MoDeSt (Modification Degradation and Stabilisation of polymers) Society/Italy  
2006 – 2008 Member of American Chemical Society/USA  
1995 – 1997 Member of the Italian Association of Metallurgy/Italy  
1996 – present Member of the Italian Association of Materials Engineering (AIMAT)/Italy  
1996 – 2002 Member of the Italian Society of Liquid Crystals (SICL)/Italy  
1996 – present Member of the National Interuniversity Consortium of Materials Science and Technology(INSTM)/Italy  
1995 – present Member of the Italian Association of Macromolecules (AIM)/Italy

#### • MAJOR INTERNATIONAL COLLABORATIONS

- T. H. Hahn, Zhanhu Guo, T. Pereira, Functional Composites and Nanotechnologies, Polymeric Materials, Statistical Analysis and Design of Experiments/Multifunctional Composites Laboratory, University of California, Los Angeles (UCLA)/ California  
- G. Lo Re, Polymer Nanocomposites, Laboratory of Polymeric and Composite Materials /University of Mons/Belgium; Cellulose based materials, KTH Royal Institute of Technology in Stockholm, Sweden  
- P. Scarfato, L. Incarnato, Polymer Processing/ Department of Engineering/University of Salerno/Italy  
- E. Passaglia, W. Oberhauser, M. Frediani Biopolymer based nanocomposites, CNR, ICCOM, Pisa/Italy  
- B. Del Curto, Biocomposites for packaging application, Department of Chemistry, Materials and Chemical Engineering/Polytechnic University of Milan/Italy  
- L. Di Landro, Biopolymer based nanocomposites, Department of Aerospace Science and Technology/ Polytechnic University of Milan/Italy  
- A. Nostro, Growing of biofilm on polymeric systems/Department of Chemical, Biological, Pharmaceutical, and Environmental Sciences /University of Messina/Italy  
- M.L. Bondi, Nanostructured materials for controlled release, CNR-ISMN, Palermo/Italy  
- A. Glisenti, R. Bertani, Functionalization of nanoparticles for polymer-based nanocomposites, Department of Chemical Science/University of Padova/Italy  
- J. Guillet, Polymers blends: processing and rheology, Université Jean Monnet of Saint-Étienne/France  
- J.A.C.G. Covas, Rheology of polymer nanocomposites, Dept of Polymer Engineering/Univ. Minho/Portugal  
- J. Karger-Kocsis, Budapest University of Technology and Economics/Hungary; E.V. Prut/Academy of Sciences/Russia; A.M. Feinleib/Academy of Sciences/Ukraine in the frame of EU project: Recycling of ground tyre rubbers RECRUPOT, ID: ICA2-CT-2001-10003  
- L. Arsov, Univ. of Skopje/Macedonia, EU project: Reinforcement the capacities of the Department of Polymer Engineering for characterization and testing polymers, RECAPO FP6 INCO-26316

#### FUNDING (selection)

- PRIN 2022 (2022WNZ2Z) - Green composites based on biodegradable polymers and vegetal biomasses of Mediterranean area: processing, characterization and degradability – National Coordinator  
- PRIN PNRR 2022 (P2022K9XN3) - New recyclable thermosetting and elastomeric polymeric materials based on bio-renewable feedstock – Research unit coordinator  
- PNNR MICS – Made in Italy, Circular and Sustainable - PE00000004 – Participant  
- PNRR Samothrace - Sicilian MicronanoTech Research And Innovation Center – ECS0000002 - Participant  
- Project POR “BioActiFix” - Participant  
- Project POR “SAWE” – Participant  
- Project NANOBIOMAT- PON03PE-00206\_3, Unit Responsible  
- Project DELIAS - PON03PE\_00214\_2, Unit Responsible  
- Project PRIN 2008 (200898KCKY): Nanoibridi inorganici a base di bio-poliesteri da risorse rinnovabili :  
Coordinator

- Project innovativo ex legge 297/99: Manufatti stampati da gomme per auto e poliolefine da riciclo (Innovative project funded according to the law 297/99. Title :Items from post-consumer tire rubber and recycled polyolefins) prot. 3334/Ric/2005: Coordinator
  - Project TEMPUS UE: Reinforcement the capacities of the department of polymer engineering for caracterizazion and testing of polymers - INCO-SSA-RECAPO-026316: Participant
  - Project UE: Recycling of crumb rubber and polyolefin waste by producing thermoplastic elastomers (ICA2-CT-2001-10003): Participant
  - PRIN 2002 (2002\_095425): Lavorazione e caratterizzazione meccanica di miscele compatibilizzate con fosfazeni funzionalizzati (Processing and mechanical characterization of blends compatibilized with functionalized phosphazenes): Participant
  - PRIN 2004 (2004\_098403): Preparazione di film in nanocompositi, caratterizzazione ottica e fotossidazione (Preparation of nanocomposite films optical characterization and photoxidation): Partecipante
  - PRIN 2005 (2005\_088741): Design ecocompatibile e sviluppo di prodotti in materiale riciclato post consumo per l'internazionalizzazione delle imprese siciliane verso la Cina (Eco-compatible design of products made from post-consumer recycled material for the internationalization of the Sicilian companies toward China): Participant
  - POR FESR Sicilia (mis. 3.14): Innovazione nel trattamento dei rifiuti (Innovation in the treatment of wastes) (DDG 1231/2006): Coordinator
  - POR FESR Sicilia (mis. 4.1.1.1): Impianto per il deposito gravitazionale delle vernici in polvere e/o liquide (Plant for the gravity deposition of powder and/or liquid paints) (DDS 3409/11) : Coordinator
  - Project NSF (National Science Foundation - USA): Hybrid Top-down and Bottom-up manufacturing: Participant
  - Project PON (PON\_01\_01287): SIB: Soluzioni avanzate basate su biomateriali a matrici composite complesse per la riparazione e la rigenerazione della cartilagine articolare mediante tecniche mininvasive (Advanced solutions on complex composite biomaterials based matrices for cartilage reparation and regeneration by mini-invasive techniques): Participant
  - Project PON (PON01\_02315): SIBAR Sistemi di irrigazione biodegradabili per l'impiego di acque reflue urbane per le produzioni agroalimentari (Biodegradable watering systems for the use of urban waste waters for the agriculture-food productions): Participant
  - Project POR FESR Sicilia (mis. 4.1.1.2): Eco-flaconi - Packaging ecosostenibile per ridotto impatto ambientale (Eco-bottles: ecosustainable packaging for reduced environmental impact) (Prot. 0260): Participant
  - Project: "Utilizzo integrato di approcci tecnologici innovativi per migliorare la shelf-life e preservare le proprietà nutrizionali di prodotti agroalimentari PON02\_00451\_3361909 SHELF LIFE: Participant
  - Project: Sviluppo di Micro e Nano-Tecnologie e Sistemi Avanzati per la Salute dell'uomo PON02\_00355\_2964193 – HIPPOCRATES: Participant
  - Project: PON01\_02315 – Sistemi di irrigazione biodegardabili per l'impiego di acque reflue urbane per le produzioni alimentari SIBAR: Participant
- Project: "Materie plastiche biodegradabili per la filiera agroindustriale-JOEPLAST: Participant