

## PERSONAL INFORMATION Giovanni Filippone



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*Date of birth:* 20/08/1976 | *Nationality:* Italian

## SHORT CV

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**Giovanni Filippone**, graduated in *Materials Engineering* in 2001 with full marks, gained a PhD in *Materials and Structure Engineering* in 2004. Since 2015 he is Associate Professor of *Materials Science and Technology* at the University of Naples Federico II. From 2016 to 2023 he has been didactic coordinator of the degree courses in *Materials Engineering* and *Materials Science and Engineering* of the University of Naples Federico II. The research interests span the entire field of Polymer science and engineering, with a focus on the performance, recyclability and environmental sustainability of thermoplastic polymers and their nanocomposites and blends. He is author of 70 papers in peer-reviewed international journals, about 40 conference proceedings, 2 book chapters, and about 80 conference participations, with >50 communications including 4 keynote/invited lectures). The number of citations is ca. 3000, which yields a H-index of 32. Intensive teaching (awarded three times as best teacher of the academic year), mentoring (supervisor of 8 PhD students and >50 Master students in Materials (Science and) Engineering) and reviewing activity (top reviewers in Chemistry - September 2018; source: Publons/Web of Science). He is/has been: (i) member of the Executive Editorial Board of *Polymer International* (and of the Reviewer Panel of *RSC Advances* (Royal Society of Chemistry); (ii) Principal Investigator of two research projects funded by the Italian Ministry of University and Research (MUR); (iii) responsible of research unit in three research projects funded by the MUR; (iv) member of the UniNA research team involved in WP1 of spoke 3 – Waterways within the Sustainable Mobility Center project of the PNRR; (v) Scientific responsible or component of research unit in several projects with private companies and public institutions. The first-hand funds managed to date amount to ca. 650 k€, >80% of which deriving from competitive calls. Among the additional commitments, he is member of the School Council of the *Scuola Politecnica e delle Scienze di Base* of the University of Naples Federico II, and member of the Research commission of DICMaPI.

## DETAILED CV

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### CURRENT POSITION

**Associate professor** of *Materials Science and Technology* and **didactic coordinator of the bachelors' and mater degrees** in *Materials (Science and) Engineering* of the University of Naples Federico II

### ACADEMIC CAREER

- **March 2018 - Qualification for the role of Full Professor** of *Materials Science and Technology* (09/D1, SSD ING/IND-22)
- since March 2016 - Didactic Coordinator of the bachelors' and masters' degree courses in *Materials (Science and) Engineering* of the University of Naples Federico II
- **since November 2015 - Permanent role as Associate Professor** of *Materials Science and Technology* (09/D1, SSD ING/IND-22)

- 2012 - Qualification for the role of Associate Professor of Materials Science and Technology (09/D1, SSD ING/IND-22)
- March 2009 - Permanent role as Assistant Professor of Materials Science and Technology, Department of Chemical, Materials and Production Engineering

## EDUCATION & PAST PROFESSIONAL EXPERIENCES

- 2005 – 2008 - post-Doctoral grants from University of Naples Federico II
- 2004 – 2005 - Internship at Pirelli Pneumatici S.r.L.
- December 2004 - PhD in Chemical, Materials and Production Engineering; title: "Rheology of elastomeric compounds for tire industry: investigations on flow instability phenomena"
- October 2001 - master's degree in Materials Engineering from University of Naples Federico II with full marks (110/110 et laude); title of the master thesis: "Rheological and rheo-optical characterization of immiscible polymer blends"

## SCIENTIFIC ACTIVITY

The first publication on a peer-reviewed journal was at the end of 2006, after a period spent in a tire company for an internship at the end of the PhD. Since then, the regular scientific production yielded to **69 papers in international peer-reviewed journals, about 40 conference proceedings, 2 book chapters, and 80 conference participations, with ca. 50 communications (4 keynote/invited lectures).**

### *Bibliometric indices (June 2024)*

- Number of **citations: >2400/ ca.3000** (source: Scopus/Google scholar)
- Percentage of **self-citations: 8%** (source: Scopus)
- Percentage of self-citations of all authors: 16.8% (source: Scopus)
- **H-index = 29/32** (source: Scopus/Google scholar)

### *Degree of ownership of the publications on peer-reviewed journals*

- **Corresponding author in >50%** of the publications
- **First author in >23%** of the publications
- **Last author in ca. 50%** of the publications
- ca. 65% of publications without the PhD supervisor among the authors

### *Quality of the publications on peer-reviewed journals (source: Scopus)*

- **>90%** of publications are on journals belonging to the **first quartile (Q1)** of the corresponding subject category
- **>50%** of publications belongs to the **first decile (D1)**

## TEACHING ACTIVITY

- Since 2022: class of *Materials and Technologies for Packaging*, master's degree in *Materials Engineering* at University of Naples Federico II, 48 h/semester
- Since 2019: class of *Principles of Material Processing*, bachelors' degree in *Materials Science and Engineering* at University of Naples Federico II, 48 h/semester
- Since 2018: class of *Polymer Science*, master's degrees in "Materials Engineering" and "Mechanical Engineering" at University of Naples Federico II, 48 h/semester
- 2014-2017: class of *Polymer Technologies*, master's degree in "Materials Engineering" at University of Naples Federico II, 72 h/semester
- 2009-2014: class of *Transport Phenomena in Materials Technologies*, master's degree in *Materials Engineering* at University of Naples Federico II, 72 h/semester
- 2006-2013: teaching support activity for classes of *Materials Technologies*, *Polymer Technologies* and *Transport Phenomena* at University of Naples Federico II

- **Awarded four times as “Best teacher of the academic year for the master’s degree in Materials Engineering”** (three times) and “Best teacher of the year for the bachelors’ degree in Materials Science and Engineering”
- **Supervisor of 8 PhD students** (3 ongoing, 5 completed)
- Mentor/co-Mentor of >50 bachelor/master thesis, most of which in *Materials (Science and) Engineering*

## ADDITIONAL COMMITMENTS/SERVICE ACTIVITY

- Past Member of the Executive Editorial Board of *Polymer International* (**paid assignment**)
- Past appointed member of the Reviewer Panel of *RSC Advances* (Royal Society of Chemistry)
- Member of the Editorial Board of *Polymer Chemistry – Frontiers*
- Member of the School Council of the *Scuola Politecnica e delle Scienze di Base* of the University of Naples Federico II
- Member of the Research commission of the Department of Chemical, Materials and Industrial Production Engineering (DICMaPI) of the University of Naples Federico II
- Responsibility for courses schedules for the bachelor’s degree in *Materials Science and Engineering* of the University of Naples Federico II
- Regular and intensive service as referee for many international scientific journals, among which *Macromolecules*, *Polymer*, *Langmuir*, *Carbohydrate Polymers*, *Soft Matter*, *Composites Science and Technology* (top reviewers in Chemistry - September 2018; source: Publons/Web of Science)

## FUND RAISING ABILITY AND PARTICIPATION TO RESEARCH PROECTS

The funds managed in person amount to ca. 650 k€, >80% of which deriving from competitive calls.

**Principal Investigator** (competitive calls):

- Biennial Research Projects by the Italian Ministry of University and Research for Projects of Relevant National Interest (PRIN 2022); title: “Untapping the potential of GREEN COMposites by combining performance and environmental sustainability - GREENCO”; **role: PI**
- Triennial Research Projects by the Italian Ministry of University and Research for Projects of Relevant National Interest (PRIN 2017); title: “CLEAN - Valorizing sustainable plastics through a CLEver use of nANoparticles”; **role: PI**
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Responsible of Research Unit (RU) or member of RU in the following projects (competitive calls):

- Triennial research project in the framework of the National Centre for Sustainable Mobility (National Recovery and Resilience Plan, WP1, spoke 3 – Waterways); **role: member of RU**
- Triennial Research Projects by the Italian Ministry of University and Research (MIUR) expressly destined to young researchers (FIRB – Futuro in Ricerca 2010); title: “GREENER - Towards multifunctional, efficient, stable and environmental-friendly bio-based nanocomposites of technological interest through immobilization of functionalized nanoparticles and stabilizing molecules”; **role: Responsible of RU**
- Two-year Research Projects granted by the MIUR (PRIN 2009); title: “Design and implementation of microwave reactors with automatic control (fuzzy) of the reaction conditions in the production scale of industrial interest”; **role: Responsible of RU**
- Two-year Research Projects granted by the MIUR (PRIN 2007); title: “New preparations of polymer nanocomposites for optical applications, electrical and magnetic”; **role: Responsible of RU**

Scientific Responsible or member of RU in several projects with Industries and Public Institutions, among which:

- Research Contracts with Bridgestone TCE S.p.A. (18 months); **role: Scientific Responsible**

- Research Contract with LyondellBasell (9 months); **role: Scientific Responsible**
- Research contract with Pirelli Tires S.p.A.; **role: Scientific Responsible**
- Research Contract with RES – Recupero Etico Sostenibile (36 months); **role: Scientific Responsible**
- Research contract with Irlplast S.p.A. (6 months); **role: Scientific Responsible**
- Research Contract with Ecopol (3 months); **role: Scientific Responsible**
- Collaborations with Pirelli tire S.p.A., with the co-funding of two PhD scholarships; **role: Academic supervisor of the PhD students**
- Triennial research projects (PON02\_00029\_3205863 PRADE, PON01\_00485 MATECON, and PON01\_00074 DIATEME); **role: member of RU**