



Curriculum Vitae

Personal Information

Surname/name **Nanni Francesca**
Nationality **Italian**
Gender **F**

Work experience

From **May 2024- present**
Position **Head of Research and Innovation**
Activity **Research, Innovation and Technology transfer. New product for Defense and Dual Use applications.**
Employee **AID -Italian Defence Industry Agency**

From **Dec 2023 – present**
Position **Appointed as Full Professor**
Activity **Teaching, reserach activity and coordinaltion of research groups in Material Science and Technology**
Employee **University of Rome “Tor Vergata” – Department of Enterprise Engineering “Mario Lucertini”**

From **October 2022 – present**
Position **Coordinator of the Raw Materials Focus Group**
Activity **Strategic and Ctirical Raw materials, Urban Mining**
Employee **University of Rome “Tor Vergata” – Fondazione Tor Vergata**

From **December 2010 – December 2023**
Position **Associate professor**
Activity **Teaching, reserach activity and coordinaltion of research groups in Material Science and Technology**
Employee **University of Rome “Tor Vergata” – Department of Enterprise Engineering “Mario Lucertini”**

From **1 Novembre 2002 – 23 Dicembre 2010**
Position **Researcher (tenure track)**
Activity **Research activity and support to teaching in Material Science and Technology**
Employee **University of Rome “Tor Vergata – Department of Industrial Engineering**

From **July- October 2000**
Position **Research Internship**
Activity **Research and development in self-monitoring composite materials**
Employee **Japan Fine Ceramic Center (JFCC), Nagoya, Japan**

Education and Training

Date	April 5th 2017
Qualification awarded	National Qualification as Full Professor in the scientific sector 09/D1 - SCIENZA E TECNOLOGIA DEI MATERIALI. (rif. Doc. 9757)
Scientific Area	ING-IND/22 - Materials Science and Technology
Issued by	Italian Ministry of Research and University Education
Date	June 13th 2006
Qualification awarded	Chartered Engineer
Scientific Area	engineering
Issued by	Italian Ministry of Research and University Education
Date	November 6th 2003
Qualification awarded	PhD in Materials Engineering
Scientific Area	Material Science and Technology
Issued by	University of Rome "Tor Vergata"
Date	May 21th 1998
Qualification awarded	Master Degree in Chemical Engineering
Scientific Area	Materials Engineering
Issued by	University of Rome "La Sapienza"

Personal skills

Mother tongue	Italian
Other languages	English

Self-assessment	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
European level (*)	C1 Proficient user	C1 Proficient user	C1 Proficient user	C1 Proficient user	C1 Proficient user

(*) Common European Framework of reference language

Ogranization and Managment of reserach groups

She is Head of research, Innovation and technology Transfer at AID. Associated researcher at ASI Italian Space Agency. She is former director of the Material Science and Technology group at the University of Rome "Tor Vergata" (at present composed by a RTD-A researcher, 3 research fellows, 3 PhD students). Since 2002 she was supervisor of 11 PhD students and more than 40 master and bachelor thesis.

She has been and is the scientific director of more than 50 joint industrial reserch projects (directly financed by private companies) and principal investigator, or research unit coordinator of more than 20 regional, national or international competitive research projects. Prof. Nanni participates to the organizing committes or international congresses as è ECNP, European Center for Nanostructured Polymers VIII, IX, X, XI, ICCE, etc.

She was external examiner for the PhD at Warwick University, Queen's University of Belfast, CNRS Lyon, University of Rome La Sapienza and member of national examination committees for Polizia di Stato

From 2017 to 2021 – member of the scientific committee for the deployment of the agreement between the University of Rome “Tor Vergata” and the European Space Agency (ESA)

From 2013 to 2024 member of the Board of Directors di ECNP scrl (European Center for Nanostructure Polymers) a non-profit, limited liability, Consortium Company formed by the "Nanostructured and Functional Polymer-Based Materials and Nanocomposites (Nanofun-Poly)" European Network of Excellence (European Commission, Directorate General Research, 6th Framework Programme)

With the public and private funds she founded and is the director of the material science and technology labs equipped with instruments for the material synthesis, preparation and characterization (www.materiali.ing.uniroma2.it).

Research Areas

1. Design, manufacturing and characterization of polymers and composite materials;
2. Innovative materials for Additive manufacturing;
3. Multifunctional Materials: smart materials, self-healing, self-monitoring, IR-reflective materials, stimuli-responsive materials, materials for RF, EM e stealth, ecc.;
4. Elastomers and rubbers;
5. Sustainable materials: biobased and secondary raw materials. Recycle of polymers and materials;
6. Circular economy applied to innovative materials, Ecodesign with sustainable materials;
7. Materials for Aerospace and biomedical applications;
8. Materials for RF, microwaves and electronics
9. Technology transfer of new materials and processes

Patents

- 2020** Inventors: F. Nanni, M. Bragaglia, L. Paleari, V. Tagliaferri, A. Caprite. *Piezochromatic coating* IT 10202000029582. Assignee: F. Nanni, MV. Tagliaferri, A. Caprite.
- 2017** Inventors: P. Agoretti, F. Nanni, V. Cherubini, S. Mori. *Rubber compounds for tyre portions*. App# IT 102017000122730, Assignee: Bridgestone Corporation
- 2017** Inventors: F. Nanni, F. Cecchini F. Fabbrocino. *Dispositivo di isolamento per applicazioni sismiche*. App# IT 102017000049925 del 9/5/2017. Assignee: UniPegaso
- 2016** Inventors: F. Izzo, F. Fabbrocino, F. Nanni, M. Rinaldi, G. P. Lignola, A. Prota. *Structural Element For Civil and Industrial Construction and its realization method*. App# 112373 BG del 31.08.2016
- 2014** Inventors: L. Caliano, J. House, F. Nanni, I. Cacciotti, F.R. Lamastra. *Rubber compounds for tyre portions*. App # RM2014A000636 Assignee: Bridgestone Corporation
- 2004** Inventors: F. Nanni, F. Auricchio, G. Gusmano European patent PCT/IT2004/000024- *Self monitoring Materials for civil applications*.

Books

- 2011** Author Chapter 10 – “*Electromagnetic properties of CNT nanocomposites*” nel libro “*Polymer carbon nanotube composites: synthesis, properties and applications*” (2011). Editors: McNally – Pötschke, Woodhead Publishing Ltd, Cambridge, UK. 2011. ISBN 978-1-84569-761-7
- 2003** collaboration to the Italian translation of the book “*Scienza e Ingegneria dei Materiali. Una Introduzione*” di W. J. Callister jr. (edizioni dal 2003 al 2007). Edises srl Napoli. Titolo originale “*Materials Science and Engineering: an Introduction*” Copyright 2000 Wiley and Sons
- 2002** Author of (G. Gusmano, F. Nanni, F. Auricchio) “*Evaluation of Conductive FRP sensors for potential monitoring of concrete structure soundness*” – in “*Innovations and developments in Concrete Materials and Constructions*” editors R.K. Dhiri, P.C.

Research project on public competitive tenders

Year	2024
Project	CLOSER- Circular raw materialS for european Open Strategic autonomy on chips and microlElectronics pRoduction
Tender	Interregional Innovation Invenstment Instrument (I3)
Funding institution	EU -EISMEA
Role	Principal Investigator – Project coordinator
Year	2024
Project	GENESIS- GENerate in Europe a Sustainable Industry for Semiconductor
Tender	HORIZON-JU-Chips-2024-2-RIA-T2
Funding institution	EU – DIGITAL -
Role	WP leader
Data	2024
Progetto	DISCOVERY- 4D printing of biocompatible and bioresorbable scaffolds in Neuro and Odonto surgery
Bando	FISA 2022 - 00933
Ente finanziatore	Italian Ministry of University and Research
Ruolo	Principal Investigator
Data	2024
Progetto	FIDEM - Functionalized Impact Detection Enhanced Material”
Bando	ASI
Ente finanziatore	Italian Ministry of University and Research
Ruolo	Principal Inves
Year	2023
Project	EPICURE- European Packaging for highly Integrated Circuits for Reliable Electronics
Tender	EDF- European Defence Fund
Funding institution	European Defence Agency
Role	Coordinator of Research Unit
Year	2023
Project	SMS-TM Sistemi di Manovra ferroviari Sostenibili per Tutti i Mercati
Tender	Accordi per l’Innovazione (dec. Min. 31 dic 2021, Il sportello) (prime industriale)
Funding institution	Italian Ministry of Enterprise and Made in Italy
Role	Coordinator of Research Unit
Data	2023

Progetto	CONSTELLIGENCE - Smart Buoys Constellation for Surveillance and Emergency
Bando	POR-FESR 2023 Lazio 2021/2027 "Progetti Riposizionamento Competitivo RSI"
Ente finanziatore	Lazio Region
Ruolo	Coordinator of Research Unit
Year	2022
Project	Biointegrable Soft Actuators Alimented by Metabolic Energy (INTEGRATE)
Tender	Pathfinder Open – Horizon Europe
Funding institution	European Commission
Role	Coordinator of Research Unit
Year	2022
Project	3D printing of metal aerospace structures form polymeric feedstock (3D-PolMet)
Tender	POR FESR Lazio 2014/2020 "Progetti di Gruppi di Ricerca 2020"
Funding institution	Lazio Region
Role	Principal Investigator
Year	2022
Project	Zero Impact MULTifunctional 3D-printed composite materials for biomedical and industrial applications in the neXt generation society (ZIMuX)
Tender	PRIN 2020 – Project of relevant National Interest
Funding institution	Italian Ministry of University and Research
Role	Principal Investigator
Year	2020
Project	Assiemi Secondari Avanzati Realizzati attraverso Tecnologia Additiva (ASSARTA)
Tender	Abilitant Technologies
Funding institution	Italian Space Agency (ASI)
Role	Coordinator of Research Unit
Year	2020
Project	ALM di elastomeri multifunzionali per la produzione di "smart-parts" (ElastALM)
Tender	POR FESR Lazio 2014-2020. – "Progetti Strategici" (prime industriale)
Funding institution	Lazio Region
Role	Principal Investigator
Year	2018
Project	Innovative Materials for Aerospace Applications via Additive Layer Manufacturing
Tender	NPI (grant number 4000112506 NPI 401)
Funding institution	European Space Agency - ESA-ESTEC (Nordwijk, Olanda)
Role	Principal Investigator
Year	2018
Project	Smart Components attraverso Additive Manufacturing Polimerico (SCAMP)
Tender	POR FESR Lazio 2014-2020. – KETs Tecnologie Abilitanti (prime industriale)

Funding institution	Lazio region
Role	Principal Investigator
Year	2017
Project	Sviluppo di ricoperture per la protezione di materiali strutturali operanti in sistemi nucleari refrigerati a piombo mediante tecniche di diffusion coating
Tender	PAR 2017 (Accordo di programma ENEA – MISE su Sicurezza Nucleare e Reattori di IV generazione)
Funding institution	Italian Ministry of Economic Development
Role	Coordinatore Scientifico Unità di Ricerca
Year	2015
Project	Sviluppo di ricoperture a base FeCrAl per la protezione di materiali strutturali operanti in sistemi nucleari refrigerati a piombo
Tender	PAR 2015 (Accordo di programma ENEA – MISE su Sicurezza Nucleare e Reattori di IV generazione)
Funding institution	Ministero dello Sviluppo Economico
Role	Coordinatore Scientifico Unità di Ricerca
Year	2014
Project	Materiali strutturali ricoperti per applicazioni nucleari
Tender	PAR 2014 (Accordo di programma ENEA – MISE su Sicurezza Nucleare e Reattori di IV generazione)
Funding institution	Ministero dello Sviluppo Economico
Role	Coordinator of Research Unit
Year	2014
Project	Advanced technologies for the PMMA industry
Tender	Progetti autonomamente presentati per il riorientamento e il recupero di competitività di strutture di ricerca industriale, con connesse attività di formazione del personale di ricerca DM593/00 Art.10
Funding institution	Italian Ministry of University and Research
Role	Principal Investigator
Year	2012
Project	Sensorized elastomers to increase safety in aeronautical, automotive and civil applications (ELASTONER)
Tender	POR FESR Lazio 2007/2013 – FILAS-CR-2011-1232
Funding institution	Lazio Region
Role	Coordinator of Research Unit
Year	2012
Project	Magnetic-nanoparticle-filled conductive polymer composites for EMI reduction
Tender	Scientific and technological research on advanced materials
Funding institution	Fondazione Cariplo
Role	Coordinator of Research Unit

Year	2012
Project	Consolidation of the European Network for nanostructured Polymers
Tender	FP7-NMP-2011-CSA-5 NMP.2011.4.0-5: Support to Networks of Excellence with durable integrated structures.
Funding institution	European Union
Role	Participant
Year	2011
Project	Caratterizzazione di rivestimenti PVD di TiN, FeAl, FeCrAl su substrati metallici
Tender	Accordo di Programma Ministero dello Sviluppo Economico – ENEA (PAR 2011, XUNITV – LP3 – 001). Nuovo nucleare da fissione: collaborazioni internazionali e sviluppo competenze in materia nucleare
Funding institution	Italian Ministry of Economic Development
Role	Coordinator of Research Unit
Year	2004
Project	Mechanical characterization and corrosion measurements of lead free soldering alloys
Tender	Progetti di Ricerca Innovativa in Scienza dei Materiali (PRISMA)
Funding institution	Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (INSTM)
Role	Principal Investigator
Year	2004
Project	New Materials and Systems for Prestressed Concrete Structures - sezione “Non-Metallic Tendons” – sottoprogetto “Self-Monitoring Composite Materials”
Tender	European Concerted Action (COST 534)
Funding institution	European Union
Role	Coordinator of Research Unit
Year	2004
Project	Caratterizzazione meccanica e di resistenza alla corrosione di leghe per saldature esenti da piombo
Tender	Progetti di Ricerca Innovativa in Scienza dei Materiali (PRISMA)
Funding institution	Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali (INSTM)
Role	Coordinator of Research Unit
Year	2003
Project	Caratterizzazione chimica e microstrutturale di rivestimenti anticorrosivi inorganici nanostrutturati preparati via sol-gel
Tender	PRIN 2003 – Progetti di Rilevante Interesse Nazionale, area 09
Funding institution	Italian Ministry of University and Research
Role	Participant
Data	2000
Progetto	New Control System for water treatment plans with advanced sensors
Bando	Miur art 11DM 8-8-2000 n.593 (Decree n. 1636/Ric.).

Ente finanziatore	Italian Ministry of University and Research
Ruolo	Coordinator of Research Unit
Industrial research projects	She is principal investigator for 52 industrial research projects from 2002 to 2023 -Most companies are recurrent clients. Large experience to work with SMEs and with large companies and their supply chain.
Former Teaching activities	
2022 - 2024	"Materials for Food Industry" (6CFU) Master Degree in Enterprise Engineering - University of Rome "Tor Vergata"
2021 - 2022	"Emerging Technologies Inspired by Nature" flipped education, degree in Advanced Biobased and Bioinspired Materials - Technical University of Lodz (Polonia) – EU project "Integrated Programme of Lodz University of Technology" – co-finanziato EU grant POWR.03.05.00-00-Z051/17)
2021	"Engineering and application of multifunctional nanomaterials" , in the frame of the agreement between the Italian Ministry of Economic Development and the University of "Tor Vergata" on innovative education pathways in "Industrial Engineering and Enterprise Management", financed by the EU school of Industrial Engineering and Management"
Start-up & Spin-off	
2014	Co-founder of the start-up <i>Tecnosens srl</i> , production of innovative sensors for water management
1999	Co-founder of the start-up <i>CEmln srl</i> , studies and analysis of Innovative materials for Electromagnetic Components
Prizes	
2021	Special mention for gender equality to the project <i>"3D Pinking"</i> in the Start-cup Lazio 2021.
2019	Oscar Masi Prize for technology Transfer in the activity <i>"Multifunctional polymeric nanocomposite materials for additive layer manufacturing"</i> awarded by AIIR – Italian Association for the Industrial Research
2013	"Omero Ranelletti" Prize awarded by the Rotary International, Distretto 2080, to the master thesis <i>"self-monitoring nanostructured fabrics: characterization and use in composite laminates"</i> - supervisor prof. Nanni.
Editorial Activity	
2022 – present	Guest Editor - Special issue <i>"3D Printing and Customized Additive Manufacturing of Advanced Sustainable Polymers and Composites"</i> in the journal <i>"Polymer"</i> (https://www.mdpi.com/journal/polymers/special_issues/T2Q92Q6325)

2021 – present	Guest Editor - Journal title Mathematical and Computational Applications - special issue "Mathematical and Computational Modelling and Mechanics of Materials and Structures"
2019 – 2022	Associate Editor Europe, editor: Springer Nature. Journal Title: Functional Polymeric materials
2017	Guest Editor- Special Issue "In Focus International Conference on Nanostructured Polymers and Nanocomposites" Polymer International, Wiley
2003 – present	Reviewer di importanti riviste scientifiche del settore, quali, a titolo di esempio: Composite Science and Technology, Ceramics International, Chemical Engineering Journal, Carbon, Journal of Alloys and Compounds, Journal of Applied Polymer Science, Journal of Material Science, Composite part A, European Polymer Journal, Journal of Magnetism and Magnetic Materials, Material Science and Engineering B, RSC Advances.

Scientific papers on peer-review journals

1. **2024** – M. Bragaglia, F. Sciarretta, P. Filetici, D. Lettieri-Barbato, L. Dassatti, F. Nicoletti, D. Sibilìa, K. Aquilano, F. Nanni *Soybean Oil-Based 3D Printed Mesh Designed for Guided Bone Regeneration (GBR) in Oral Surgery*. Macromolecule Biosciences 2024, 24(5), 2300458
2. **2024** – M. Bragaglia, L. Paleari, M. Mariani, F. Nanni *Sustainable formaldehyde-free copper electroless plating on carbon-epoxy substrates*. Journal of Material Science in Electronics 2024, 35(10), 707
3. **2024** – M. Sadaf, S. Cano, M. Bragaglia, S. Schuschnigg, C. Kukla, C. Holzer, L. Vály, M. Kitzmantel, F. Nanni, J. Gonzalez-Gutierrez *Comparative analysis of binder systems in copper feedstocks for metal extrusion additive manufacturing and metal injection moulding* Journal of Material Research and Technology 2024, 29, pp. 4433–4444
4. **2024** – M. Sadaf, M. Bragaglia, L. Slemenik Perše F. Nanni, *Advancements in Metal Additive Manufacturing: A Comprehensive Review of Material Extrusion with Highly Filled Polymers* Journal of Manufacturing and Material Processing 2024, 8(1), 14
5. **2024** – M. Bragaglia, L. Paleari, F. Nanni, *Ground tire rubber and coffee silverskin as sustainable fillers in EPDM compounds for rubber-to-steel bonded systems in roofing applications* Polymer Composites 2024
6. **2024** – V. C. Canale, L. Paleari, M. Bragaglia, G. Petrella, L. Severini, F. Nanni, C. Mazzuca, A. Palleschi, *Investigation on the Influence of Process Parameters on The Stability of A Poly(Vinyl) Alcohol-Based Coating System*. Macromolecules 2024, art. Num 2718134
7. **2024** – G. Antonelli, A. Mencattini, M. Massimiani, V. Lacconi, J. Filippi, M. Losardo, M. D'Orazio, P. Casti, M. Bragaglia, G. Curci, F. Nanni, L. Campagnolo, E. Martinelli, *Development of integrated optical biosensors based on low-cost stereolithography fabrication and multispectral signature for Lab-On-Chip applications* Sensors and Actuators B Chemical 2024, 401, 135009.
8. **2023**- M. Bragaglia, M. Mariani, C. Sergi, F. Sarasini, J. Trillò, F. Nanni *Poly(lactic acid) as biobased binder for the production of 3D printing filaments for Ti6Al4V alloy manufacturing via bound metal deposition* Journal of Materials Research and Technology Open Access 2023, 27, pp 168 – 181.
9. **2023** - M. Bragaglia, L. Paleari, J. Passaro, P. Russo, F. Fabbrocino, L. Raimondo, F. Nanni *3D printing of biodegradable and self-monitoring SWCNT-loaded biobased resin*, Composites Science and Technology Open Access 2023 , Volume 24320 Article number 110253.

10. **2023** - M. Bragaglia, F. Cecchini, L. Paleari, M. Ferrara, M. Rinaldi, F. Nanni *Modeling the fracture behavior of 3D-printed PLA as a laminate composite: Influence of printing parameters on failure and mechanical properties* Composite Structures 2023 Volume 32215 Article number 117379.
11. **2023** - M. Bragaglia, F.R. Lamastra, J. A. Berrocal, L. Paleari, F. Nanni *Sustainable phase change materials (PCMs): waste fat from cooking pork meat confined in polypropylene fibrous mat from waste surgical mask and porous bio-silica* Materials Today Sustainability, 2023, 23, 100454
12. **2023** - L. Paleari, M. Bragaglia, M. Mariani, F. Nanni *Acrylonitrile butadiene styrene – carbon nanotubes nanocomposites for 3D printing of health monitoring components* Journal of Reinforced Plastics and Composites, 2023, 42(17-18), pp. 857–870
13. **2023** - M. Bragaglia, L. Paleari, F.R. Lamastra, P. Russo, F. Fabbrocino, F. Nanni, *Oleylamine functionalization of boron nitride nano-platelets for Polyamide-6 thermally conductive injection moulded composites* Journal of Thermoplastic Composite Materials 2023 Volume 36 (7), pp 2862 – 2882
14. **2023** – M. Bragaglia, L. Paleari, J. A. Berrocal, F. Nanni, *Towards sustainable rubber compounds: the use of waste raw materials*. Journal of Applied Polymer Science, 2023, 140(16), 53750.
15. **2023** – S. Buonvino, M. Ciocci, F. Nanni, I. Cacciotti, S. Melino. *New vegetable-waste biomaterials by Lupin albus L. as cellular scaffolds for applications in biomedicine and food*. Biomaterials, 2023, 293, 121984.
16. **2023** – M. Rinaldi, M. Bragaglia, F. Nanni. *Mechanical performance of 3D printed polyether-ether-ketone nanocomposites: An experimental and analytic approach*, Composite Structures, 2023, 305, 116459.
17. **2023** – L. Paleari, M. Bragaglia F. Fabbrocino, R. Luciano, F. Nanni, *Self-Monitoring Performance of 3D-Printed Poly-Ether-Ether-Ketone Carbon Nanotube Composites*, Polymers, 2023, 15(1), 8.
18. **2022** – M. Rinaldi, M. Ferrara, L. Pigliaru, C. Allegranza, F. Nanni, *Additive manufacturing of polyether ether ketone-based composites for space application: a mini-review*, CEAS Space Journal, 2023, 15(1), pp. 77–87.
19. **2022** – C. Tosto, M. Bragaglia, F. Nanni, G. Recca, G. Cicala, *Fused Filament Fabrication of alumina/polymer filaments for obtaining ceramic parts after debinding and sintering processes*. Materials, 2022, 15(20), 7399.
20. **2022** – M. Sadaf, S. Cano, J. Gonzalez-Gutierrez, M. Kitzmantel, F. Nanni, *Influence of Binder Composition and Material Extrusion (MEX) Parameters on the 3D Printing of Highly Filled Copper Feedstocks*, Polymers, 2022, 14(22), 4962.
21. **2022** – M. Bragaglia, L. Paleari, F. R. Lamastra, P. Russo, F. Fabbrocino, F. Nanni, *Oleylamine functionalization of boron nitride nano-platelets for Polyamide-6 thermally conductive injection moulded composites*, Journal of Thermoplastic Composite Materials, 2022.
22. **2022** – M. Bragaglia, V. Pascale, M. Rinaldi, F. Nanni. *Silver electroless plating on 3D printed resins via stereolithography: A sustainable solution*, Thin Solid Films, 2022, 757, 139417.
23. **2022** – M. Ferrara, M. Rinaldi, L. Pigliaru, F. Cecchini, F. Nanni. *Investigating the use of 3D printed soft magnetic PEEK-based composite for space compliant electrical motors*. Journal of Applied Polymer Science 2022, 139(20), 5215.
24. **2022** – L. Paleari, M. Bragaglia, M. Mariani, F. Nanni. *Acrylonitrile butadiene styrene – carbon nanotubes nanocomposites for 3D printing of health monitoring components*. Journal of Reinforced Plastics and Composites, 2022.

25. **2022** – V. Cherubini, F. R. Lamastra, M. Bragaglia, F. Nanni. *Waste cooking oils as processing aids for eco-sustainable elastomeric compounding*. Progress in Rubber, Plastics and Recycling Technology, 2022, 38(1), pp. 3–20.
26. **2021** – L. Paleari, M. Bragaglia, F. Fabbrocino, F. Nanni. *Structural monitoring of glass fiber/epoxy laminates by means of carbon nanotubes and carbon black self-monitoring plies*. Nanomaterials, 2021, 11(6), 1543.
27. **2021** – M. Sadaf, M. Bragaglia, F. Nanni. *A simple route for additive manufacturing of 316L stainless steel via Fused Filament Fabrication*. Journal of Manufacturing Processes, 2021, 67, pp. 141–150.
28. **2021** – L. Pigliaru, L. Paleari, M. Bragaglia, F. Nanni, T. Ghidini, M. Rinaldi. *Poly-ether-ether-ketone – Neodymium-iron-boron bonded permanent magnets via fused filament fabrication*. Synthetic Metals, 2021, 279, 116857.
29. **2021** – M. Sgrulletti, M. Bragaglia, S. Giannetti, L. Paleari, F. Nanni. *Understanding the impact of Fused Filament Fabrication conditions on the microstructure and tensile properties of polyamide 6 by thermal and optical live monitoring*. Materials Today Communications, 2021, 28, 102679.
30. **2021** – M. Rinaldi, T. Ghidini, F. Nanni. *Fused filament fabrication (FFF) of polyetheretherketone (PEEK)/ Multi-Walled Carbon Nanotube (MWCNT) nanocomposites: the effect of thermally conductive nanometric filler on the printability and related properties*. Polymer International, 2021, 70(8), pp. 1080–1089.
31. **2021** – M. Bragaglia, L. Paleari, F.R. Lamastra, D. Puglia, F. Fabbrocino, F. Nanni. *Graphene nanoplatelet, multiwall carbon nanotube, and hybrid multiwall carbon nanotube–graphene nanoplatelet epoxy nanocomposites as strain sensing coatings*. Journal of Reinforced Plastics and Composites, 2021, 40(17-18), pp. 632–643.
32. **2021** – M. Bragaglia, T. McNally, F.R. Lamastra, V. Cherubini, F. Nanni. *Compatibilization of an immiscible blend of EPDM and POM with an Ionomer*. Applied Polymer Science, 2021, 13(20).
33. **2021** – M. Rinaldi, F. Cecchini, L. Pigliaru, T. Ghidini, F. Lumaca, F. Nanni. *Additive Manufacturing of Polyether Ether Ketone (PEEK) for Space Applications: A Nanosat Polymeric Structure*. Polymers 2021, 13(1), 11.
34. **2021** – M. Bragaglia, F.R. Lamastra, P. Russo, L. Vitiello, M. Rinaldi, F. Fabbrocino, F. Nanni. *A comparison of thermally conductive polyamide 6-boron nitride composites produced via additive layer manufacturing and compression molding*. Polymer composites, 2021, 42, pp. 2751-2765.
35. **2020** – L. Pigliaru, M. Rinaldi, L. Ciccacci, A. Norman, T. Rohr, T. Ghidini, F. Nanni. *3D printing of high performance polymer-bonded PEEK-NdFeB magnetic composite materials*. Functional Composite Materials, 2020, 1, 4.
36. **2020** – M. Bragaglia, F.R. Lamastra, V. Cherubini, F. Nanni. *3D printing of polybutadiene rubber cured by photo-induced thiol-ene chemistry: A proof of concept*. Express Polymer Letters, 2020, 14(6), pp. 576-582.
37. **2020** – C. Mazzuca, L. Severini, M. Messori, M. Tumati, F. Domenici, L. Micheli, M. Titubante, M. Bragaglia, F. Nanni, G. Paradossi, A. Palleschi. *Evaluating the influence of paper characteristics on the efficacy of new poly(vinyl alcohol) based hydrogels for cleaning modern and ancient paper*. Microchemical Journal, 2020, 155, 104716.
38. **2020** – J. Cugliari, P. Straffi, P. Agoretti, M. Klüppel, J. Meier, F. Nanni. *Validation of the Kummer friction model for rubber compounds on sinusoidal tracks by fea simulations and experimental techniques*. Rubber Chemistry and Technology, 2020, 93(3), pp 515–532.
39. **2019** – M. Bragaglia, F.R. Lamastra, M. Tului, L. Di Gaspare, A. Notargiacomo, M. Valentini, F. Nanni. *Low temperature sputtered ITO on glass and epoxy resin substrates: influence of process parameters and substrate roughness on*

morphological and electrical properties. Surface and Interfaces, 2019, 17, UNSP 100365-

40. **2019** – I. Cacciotti, M. Valentini, M. Raio, F. Nanni. *Design and development of advanced BaTiO₃/MWCNTs/PVDF multi-layered systems for microwave applications*. Composite Structures, 2019, 224, 111075.
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