



## Giulia Infurna


Date of birth: 18/03/1992


Nationality: Italian

Gender: Female

### CONTACT

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### WORK EXPERIENCE

**01/06/2019 – 31/12/2019** – Palermo, Italy

#### INSTM - Scholarship

Consorzio Interuniversitario Nazionale per la Scienza e Tecnologia dei Materiali

Formulation (Solvent Casting & Compression Molding), Characterization (rheological, optical, uv-visible, mechanical, study of photo-oxidation behaviour, permeability) and durability of biofilms for cultural heritage protection.

**07/2020 – 31/10/2020** – Palermo, Italy

#### Borsista

Universita degli Studi di Palermo

Formulation, characterization and durability of intumescent paint in naval industry

**01/04/2018 – 14/06/2018** – Guimaraes, Portugal

#### Traineeship

Universidade do Minho

In-process characterization of polymer nanocomposites, by means of a prototype of Twin Screw Extruder with Double Slite Die for rheological assessment. Dispersion characterization, photo- and thermo-oxidation behaviour, electrical and thermal conductivity, scavenging role of nanoparticles.

**01/11/2020 – CURRENT** – Palermo, Italy

#### PhD

Università degli Studi di Palermo

Employing of conventional processing for Formulation, characterization, and durability of multi-layer biofilms of recycled or bio-degradable polymers loaded with thermal treated forestal and agricultural waste as part of circular economy view.

### EDUCATION AND TRAINING

**09/2016 – 03/2019** – Italy

#### Master's Degree in Chemical Engineering

Università degli Studi di Palermo

**09/2011 – 10/2015** – Italy

#### Bachelor's Degree in Chemical Engineering

Università degli Studi di Palermo

## LANGUAGE SKILLS

**MOTHER TONGUE(S):** Italian

**OTHER LANGUAGE(S):**

**English**

**Listening**  
B2

**Reading**  
B2

**Spoken  
production**  
B2

**Spoken  
interaction**  
B2

**Writing**  
B1

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## DIGITAL SKILLS

Matlab / Origin / Trios / Microsoft Office / Microsoft Excel / Microsoft Powerpoint / LinkedIn / Microsoft Word / Spectrum

## PUBLICATIONS

- **Natural compounds as sustainable additives for biopolymers**  
**2020** [10.3390/polym12040732](https://doi.org/10.3390/polym12040732)  
Dintcheva, N. Tz.; **Infurna, G.**; Baiamonte, M.; D'Anna, F.; *Polymers*, vol. 12, pp. 732
- **Environmentally friendly eutectogels comprising l-amino acids and deep eutectic solvents: Efficient materials for wastewater treatment**  
**2020** [10.1002/cplu.202000017](https://doi.org/10.1002/cplu.202000017)  
Marullo, S.; Meli, A.; Dintcheva, N. Tz.; **Infurna, G.**; Rizzo, C.; D'Anna, F.; *ChemPlusChem*, vol. 85, pp. 301-311
- **Taking advantage of the functional synergism between carbon nanotubes and graphene nanoplatelets to obtain polypropylene-based nanocomposites with enhanced oxidative resistance**  
**2020**  
**Infurna, G.**; Teixeira, P. F.; Dintcheva, N. Tz.; Hilliou, L.; La Mantia, F. P.; Covas, J. A.; *European Polymer Journal*, vol. 133, pp. 109796
- **Bionanocomposite films containing halloysite nanotubes and natural antioxidants with enhanced performance and durability as promising materials for cultural heritage protection**  
**2020** [10.3390/polym1209197](https://doi.org/10.3390/polym1209197)  
**Infurna, G.**; Cavallaro, G.; Lazzara, G.; Milioto, S.; Dintcheva, N. Tz.; *Polymers*, vol. 12, pp. 1973
- **End-of-life and waste management of disposable beverage cups**  
**2021** [10.1016/j.scitotenv.2020.143044](https://doi.org/10.1016/j.scitotenv.2020.143044)  
Dintcheva, N. Tz.; **Infurna, G.**; D'Anna, F.; *Science of The Total Environment*, vol. 763, pp. 143044
- **A Review of Bioplastics and Their Adoption in the Circular Economy**  
**2021** [10.3390/polym13081229](https://doi.org/10.3390/polym13081229)  
Di Bartolo, A.; **Infurna, G.**; Dintcheva, N. Tz.; *Polymers*, vol. 13, pp. 1229
- **Boosting the methanolysis of polycarbonate by the synergy between ultrasound irradiation and task specific ionic liquids**  
**2021** [10.1039/d1gc02239c](https://doi.org/10.1039/d1gc02239c)  
D'Anna, F.; Sbacchia, M.; **Infurna, G.**; Dintcheva, N. Tz.; Marullo, S.; *Green Chem.*, 2021, 23, 9957–9967
- **Understanding the Effects of Crosslinking and Reinforcement Agents on the Performance and Durability of Biopolymer Films for Cultural Heritage Protection**  
**2021** [10.3390/molecules26113468](https://doi.org/10.3390/molecules26113468)  
**Infurna, G.**; Cavallaro G.; Lazzara, G.; Milioto, S.; Dintcheva, N. Tz. *Molecules* 2021, 26, 3468.
- **Effect of different processing techniques and presence of antioxidant on the chitosan film performance**  
**2022** [10.1002/vnl.21905](https://doi.org/10.1002/vnl.21905)  
**Infurna, G.**; Cavallaro, G.; Milioto, S.; Dintcheva, N. Tz., *J Vinyl Addit Technol.* 2022;1–9.

● **Control of end-of-life oxygen-containing groups accumulation in biopolyesters through introduction of crosslinked polysaccharide particles**

2021 [10.1002/pen.25855](https://doi.org/10.1002/pen.25855)

Dispenza, C.; Sabatino, M. A.; **Infurna, G.**; Dintcheva, N. Tz.; *Polym Eng Sci.* 2021;1-11

● **Slow Pyrolysis as a Method for Biochar Production from Carob Waste: Process Investigation and Products' Characterization**

2021 [10.3390/en14248457](https://doi.org/10.3390/en14248457)

Maniscalco, M.; **Infurna, G.**; Caputo, G.; Botta, L.; Dintcheva, N. Tz.; *Energies* 2021,14,8457

## CONFERENCES AND SEMINARS

● **09/2019** > - Materials in The Next Decade, Favignana

● **Naturally Occurring Materials For Cultural Heritage Conservation**

Dintcheva N. Tz., Lazzara G., Cavallaro G., **Infurna G.**, Francesco Paolo La Mantia,

**01/09/2019 - 05/09/2019** > - 33rd PDDG Conf., Malta

● **Durability Of Bio- Polymers Based Films For Cultural Heritage Conservation**

Dintcheva N. Tz, Lazzara G., Cavallaro G., **Infurna G.**, La Mantia F. P., Millioto S.,

**21/06/2019 - 24/06/2019** > - XII INSTM CONFERENCE-XV AIMAT CONFERENCE, Ischia (NA)

● **Bio-Polymers Based Films Containing Naturally Occurring Fillers And Anti-Oxidants For Cultural Heritage Conservation:Formulation, Characterization And Durability**

Dintcheva N. Tz, Lazzara G., Cavallaro G., **Infurna G.**, La Mantia F. P., Millioto S.

**15/09/2021** > - Cagliari, IT

● **BIOPOLYMER BASED COMPOSITES CONTAINING BIOCHAR PARTICLES COMING FROM PYROLYZED AGRICULTURE WASTE**

**Infurna, G.**; Maniscalco, M.; Caputo, G.; Botta, L.; Dintcheva, N. Tz.