

# CURRICULUM VITAE

EUROPEAN FORMAT

## PERSONAL INFORMATION

Name, Surname	<b>GENNARO GENTILE</b>
E-mail	gennaro.gentile@cnr.it
Institute	Institute of Polymer Composites and Biomaterials of National Research Council of Italy
Position	Senior Resreacher

## EDUCATION

• Date	1996-1997
• Name of Institution	University of Florence, Italy
• Qualification	Advanced Post-Graduate Course in Science for the Conservation of Cultural Heritage
• Date	from July 1996
• Name of Institution	Department of Chemistry, University "Federico II", Naples, Italy
• Qualification	Master degree in Chemistry, full marks

## WORK EXPERIENCE

Dates (from – to)	2005-2014
Name and address of employer	Institute for Chemistry and Technology of Polymers (ICTP) of the Italian National Research Council (CNR)
Type of business or sector	Research Unit
Occupation or position held	Researcher (2001-2008), Researcher III Level (2008-2019), Researcher II Level (2019-2021),
Main activities and responsibilities	Research activity in the field of polymers and composite materials
Dates (from – to)	2014-to now
Name and address of employer	Institute of Polymers, Composites and Biomaterials (IPCB) of the Italian National Research Council (CNR)
Type of business or sector	Research Unit
Occupation or position held	Researcher (2014-2020), Senior Researcher (2021-to now)
Main activities and responsibilities	Research activity in the field of polymers and composite materials

## TEACHING AND TUTORSHIP

Dates (from – to)	2011 – 2020
Name and address of employer	University "Federico II", Naples
Type of business or sector	Teaching sector
Occupation or position held	Tutor of Master Degree Thesis
Main activities and responsibilities	Tutorship of 5 Master Degree thesis
Dates (from – to)	2014 – to now
Name and address of employer	University "Federico II", Naples; University of Campania
Type of business or sector	Teaching sector
Occupation or position held	Tutor of PhD Thesis
Main activities and responsibilities	Tutorship of 5 PhD thesis
Dates (from – to)	2015
Name and address of employer	University of Napoli Federico II – Department of Farmacy
Type of business or sector	Teaching sector
Occupation or position held	Lecturer with temporary position

Main activities and responsibilities	Teaching “Functionalization techniques of polymer surfaces”
Dates (from – to)	2014-2015
Name and address of employer	Second University of Naples - Department of Civil Engineering, Design, Construction and Environment
Type of business or sector	Teaching sector
Occupation or position held	Lecturer with temporary position
Main activities and responsibilities	Teaching “Technologies and Processing Systems” ING-IND 16”
Dates (from – to)	2013 – 2014
Name and address of employer	University of Sannio, Benevento
Type of business or sector	Teaching sector
Occupation or position held	Lecturer with temporary position
Main activities and responsibilities	Teaching at the Support Course in Chemistry

## RESEARCH ACTIVITIES

- Design and study of polymer composites and nanostructured coatings with functional properties, for applications in the cultural heritage, textile and packaging sector;
- Design and study of eco-sustainable polymer composites, based on traditional, bio-derived or biodegradable polymeric matrices and reinforced with natural fibers, for applications in the textile, furniture, automotive, packaging and building sectors;
- Design and synthesis of hierarchical micro/meso/macroporous systems with adsorption properties tailored for applications in water and air remediation;
- Design and study of shape memory polymeric systems with modulated properties;
- Study and optimization of the interface in multiphase polymeric systems through advanced characterization techniques;
- In situ characterization of dynamic phenomena through advanced electron microscopy techniques;
- Design and optimization of new recycling processes for polymeric materials.

## SCIENTIFIC COORDINATION OF R&D PROJECTS

- Scientific responsible for the CNR Unit  
EU project H2020 “ECOBULK - Circular Process for Eco-Designed Bulky Products and Internal Car Parts” – G.A. 730456 (2017-2021).
- Scientific responsible for the IPCB-CNR Unit of Pozzuoli  
EU Project H2020 “INNOVACONCRETE – Innovative materials and techniques for the conservation of 20th century concrete-based cultural heritage” – G.A. 760858 (2018-2021).
- Scientific responsible for the IPCB-CNR Unit of Pozzuoli  
EU Project H2020 “APACHE – Active & Intelligent Packaging materials and display cases as a tool for preventive conservation of Cultural heritage” – G.A 814496 (2019-2022).
- Scientific responsible for the CNR Unit  
National Project PRIN “PANACEA – A technology Platform for the sustainable recovery and advanced use of Nanostructured Cellulose from Agri-food residues” – Progetto n. 2017LEPH3M (2019-2022).
- Scientific responsible for the IPCB-CNR Unit of Pozzuoli  
National Project PON “TEX-STYLE – New smart and sustainable multi-sector fabrics for creative design and made-in-Italy style” – Progetto ARS01\_00996 (2020-2022).
- Scientific responsible for the CNR Unit  
National Project “ATOS – Automazione della separazione di rifiuti di plastica finalizzata al loro riutilizzo mediante riciclo meccanico” – Research Contract Lavorgna srl – CNR-IPCB (2020-2022).
- Scientific responsible for the IPCB-CNR Unit of Pozzuoli  
National Project “Development of new lead-free nanocomposite systems for X-ray protection” – Research Contract TEKNOS srl – CNR-IPCB (2021-2022).
- Scientific responsible for the CNR Unit  
National Project “FLEX2 – New flexible films for food packaging with high gas barrier made by coatings based on cellulose nanofibers” – Research Contract CRDC Nuove Tecnologie – IPCB-CNR (2020-2022).
- Scientific responsible for the IPCB-CNR Unit

National project "FUNK ITALY – Design of functionalized, innovative and sustainable 'Made in Italy' products" – Bando Cluster tecnologici nazionali – MIUR – Project n. CTN02\_00053\_10024434 (2017-2020).

Scientific responsible for the IPCB-CNR Unit of Pozzuoli  
National Project "RIPA-PAUN – Parco archeologico urbano di Napoli" – Progetto POR Campania – FESR 2014-2020 (2017-2020).

Scientific responsible for the CNR Unit  
National project "FLEX – Film per imballaggio alimentare a migliorata barriera e riciclabilità mediante coating e adesivi a base di filler nanostrutturati 2D" – Research Contract CRDC Nuove Tecnologie – IPCB-CNR (2018-2020).

Scientific responsible for the CNR Unit  
National Project "SANTRA – Realizzazione ed analisi di biomateriali funzionali" – Research Contract Università degli Studi di Napoli "Federico II" – IPCB-CNR (2018-2019).

Scientific responsible for the IPCB-CNR Unit of Pozzuoli  
EU Project FP7 "NANoREG - A common European approach to the regulatory testing of Manufactured Nanomaterials", G.A. NMP-LA-2013-310584. (2013-2017).

Scientific responsible for the CNR Unit  
EU Project "Boatdigest, Boat Dismantling Insight by Generating Environmental and Safety Training", EC Lifelong Learning Programme, 2013-2015, Project number: 2013-1-ES1-LEO05-67616 (2013-2015).

Scientific responsible for the ICTP-CNR Unit  
National Project Progetto Premiale CNR 2012 "Energia da Fonti Rinnovabili" (2013-2015).

## PROJECT REVIEWER

Project Reviewer for POR FESR 2014-2020 Technology Platform Piemonte Region –  
Thematics: Bioeconomy.

CNR Project Reviewer for R&D Projects - Fondo Crescita Sostenibile – Italian Ministry of  
Economic Development.

EU Project Reviewer for the call FP7-PEOPLE-2012-COFUND – Independent Expert for REA  
(Research Executive Agency).

EU Project Reviewer for the call FP7-PEOPLE-2008-COFUND i – Independent Expert for  
European Commission.

## SCIENTIFIC PUBLICATIONS

Author of about 350 research products. Among them, 160 products are scientific papers  
published in International Journals indexed by Scopus.

H-index 34 (Google Scholar); 29 (Scopus)

Main Scientific publications of the last 5 years are reported as follows:

1) Guerritore, M., Olivieri, F., Castaldo, R., Avolio, R., Cocca, M., Errico, M.E., Galdi, M.R.,  
Carfagna, C., Gentile, G. Recyclable-by-design mono-material flexible packaging with high  
barrier properties realized through graphene hybrid coatings (2022) Resources, Conservation  
and Recycling, 179, art. no. 106126.

2) Castaldo, R., Avolio, R., Cocca, M., Errico, M.E., Lavorgna, M., Šalplachta, J., Santillo, C.,  
Gentile, G. Hierarchically porous hydrogels and aerogels based on reduced graphene oxide,  
montmorillonite and hyper-crosslinked resins for water and air remediation (2022) Chemical  
Engineering Journal, 430, art. no. 133162.

3) Volgare, M., De Falco, F., Avolio, R., Castaldo, R., Errico, M.E., Gentile, G., Ambrogio, V.,  
Cocca, M. Washing load influences the microplastic release from polyester fabrics by affecting  
wettability and mechanical stress (2021) Scientific Reports, 11 (1), art. no. 19479.

4) Olivieri, F., Castaldo, R., Cocca, M., Gentile, G., Lavorgna, M. Innovative Silver-Based  
Capping System for Mesoporous Silica Nanocarriers Able to Exploit a Twofold Anticorrosive  
Mechanism in Composite Polymer Coatings: Tailoring Benzotriazole Release and Capturing  
Chloride Ions (2021) ACS Applied Materials and Interfaces, 13 (40), pp. 48141-48152.

5) De Falco, F., Di Pace, E., Avella, M., Gentile, G., Errico, M.E., Krzan, A., ElKhiar, H., Zupan,  
M., Cocca, M. Development and Performance Evaluation of a Filtration System for Washing  
Machines to Reduce Microfiber Release in Wastewater (2021) Water, Air, and Soil Pollution,

232 (10), art. no. 406.

6) De Falco, F., Avolio, R., Errico, M.E., Di Pace, E., Avella, M., Cocca, M., Gentile, G. Comparison of biodegradable polyesters degradation behavior in sand (2021) *Journal of Hazardous Materials*, 416, art. no. 126231.

7) Castaldo, R., Avolio, R., Cocca, M., Errico, M.E., Avella, M., Gentile, G. Amino-functionalized hyper-crosslinked resins for enhanced adsorption of carbon dioxide and polar dyes (2021) *Chemical Engineering Journal*, 418, art. no. 129463.

8) Capuano, R., Bonadies, I., Castaldo, R., Cocca, M., Gentile, G., Protopapa, A., Avolio, R., Errico, M.E. Valorization and mechanical recycling of heterogeneous post-consumer polymer waste through a mechano-chemical process (2021) *Polymers*, 13 (16), art. no. 2783.

9) Pirozzi, A., Capuano, R., Avolio, R., Gentile, G., Ferrari, G., Donsi, F. O/W pickering emulsions stabilized with cellulose nanofibrils produced through different mechanical treatments (2021) *Foods*, 10 (8), art. no. 1886.

10) Rizzi, F., Castaldo, R., Latronico, T., Lasala, P., Gentile, G., Lavorgna, M., Striccoli, M., Agostiano, A., Comparelli, R., Depalo, N., Curri, M.L., Fanizza, E. High surface area mesoporous silica nanoparticles with tunable size in the sub-micrometer regime: Insights on the size and porosity control mechanisms (2021) *Molecules*, 26 (14), art. no. 4247.

11) Olivieri, F., Castaldo, R., Cocca, M., Gentile, G., Lavorgna, M. Mesoporous silica nanoparticles as carriers of active agents for smart anticorrosive organic coatings: A critical review (2021) *Nanoscale*, 13 (20), pp. 9091-9111.

12) Marotta, A., Faggio, N., Ambrogi, V., Mija, A., Gentile, G., Cerruti, P. Biobased furan-based epoxy/TiO<sub>2</sub> nanocomposites for the preparation of coatings with improved chemical resistance (2021) *Chemical Engineering Journal*, 406, art. no. 127107.

13) Sarno, M., Gentile, G., Ponticorvo, E. Templated synthesis of honeycomb-like TiO<sub>2</sub> for supercapacitor applications (2021) *Chemical Engineering Transactions*, 84, pp. 163-168.

14) Cappucci, G.M., Avolio, R., Carfagna, C., Cocca, M., Gentile, G., Scarpellini, S., Spina, F., Tealdo, G., Errico, M.E., Ferrari, A.M. Environmental life cycle assessment of the recycling processes of waste plastics recovered by landfill mining (2020) *Waste Management*, 118, pp. 68-78.

15) Paunović, P., Grozdanov, A., Makreski, P., Gentile, G. Structural changes of TiO<sub>2</sub> as a result of irradiation by e-beam and x-rays (2020) *Journal of Engineering Materials and Technology, Transactions of the ASME*, 142 (4), art. no. 041003.

16) Bifulco, A., Marotta, A., Passaro, J., Costantini, A., Cerruti, P., Gentile, G., Ambrogi, V., Malucelli, G., Branda, F. Thermal and fire behavior of a bio-based epoxy/silica hybrid cured with methyl nadic anhydride (2020) *Polymers*, 12 (8), art. no. 1661.

17) Castaldo, R., de Luna, M.S., Siviello, C., Gentile, G., Lavorgna, M., Amendola, E., Cocca, M. On the acid-responsive release of benzotriazole from engineered mesoporous silica nanoparticles for corrosion protection of metal surfaces (2020) *Journal of Cultural Heritage*, 44, pp. 317-324.

18) Guerritore, M., Castaldo, R., Silvestri, B., Avolio, R., Cocca, M., Errico, M.E., Avella, M., Gentile, G., Ambrogi, V. Hyper-crosslinked polymer nanocomposites containing mesoporous silica nanoparticles with enhanced adsorption towards polar dyes (2020) *Polymers*, 12 (6), art. no. 1388.

19) Stanzione, M., Oliviero, M., Cocca, M., Errico, M.E., Gentile, G., Avella, M., Lavorgna, M., Buonocore, G.G., Verdolotti, L. Tuning of polyurethane foam mechanical and thermal properties using ball-milled cellulose (2020) *Carbohydrate Polymers*, 231, art. no. 115772.

20) Mugnano, M., Lama, G.C., Castaldo, R., Marchesano, V., Merola, F., Del Giudice, D., Calabuig, A., Gentile, G., Ambrogi, V., Cerruti, P., Memmolo, P., Pagliarulo, V., Ferraro, P., Grilli, S. Cellular Uptake of Mildly Oxidized Nanographene for Drug-Delivery Applications (2020) *ACS Applied Nano Materials*, 3 (1), pp. 428-439.

21) Castaldo, R., De Falco, F., Ambrogi, V., Avolio, R., Cocca, M., Di Pace, E., Errico, M.E., Gentile, G., Avella, M. Modified Hyper-crosslinked Resins for Textile Wastewater Treatment (2020) *Springer Water*, pp. 272-276.

22) De Falco, F., Di Pace, E., Gentile, G., Avolio, R., Errico, M.E., Avella, M., Cocca, M. Microfiber Pollution from Source to Mitigation (2020) *Springer Water*, pp. 60-61.

- 23) De Falco, F., Di Pace, E., Gentile, G., Castaldo, R., Avolio, R., Errico, M.E., Avella, M., Chiavazzo, G., Imparato, M., Montuoro, F., Pucci, L., Di Vito, S., Cocca, M. Assessment of Microplastic Pollution in Sarno River (2020) Springer Water, pp. 183-186.
- 24) Avolio, R., Grozdanov, A., Avella, M., Barton, J., Cocca, M., De Falco, F., Dimitrov, A.T., Errico, M.E., Fanjul-Bolado, P., Gentile, G., Paunovic, P., Ribotti, A., Magni, P. Review of pH sensing materials from macro- to nano-scale: Recent developments and examples of seawater applications (2020) Critical Reviews in Environmental Science and Technology, 52 (6), pp. 979-1021.
- 25) Petrovski, A., Paunović, P.P., Grozdanov, A., Dimitrov, A.T., Mickova, I., Gentile, G., Avella, M. Electrochemical polymerization and in situ characterization of PANI in presence of chemically modified graphene (2020) Bulgarian Chemical Communications, 52, pp. 41-48.
- 26) Ponticorvo, E., Castaldo, R., Gentile, G., Sarno, M. Hyper-cross-linked polymer loaded with PtRu-MoS<sub>2</sub> for ammonia detection (2020) Chemical Engineering Transactions, 79, pp. 463-468.
- 27) Marotta, A., Faggio, N., Ambrogio, V., Cerruti, P., Gentile, G., Mija, A. Curing Behavior and Properties of Sustainable Furan-Based Epoxy/Anhydride Resins (2019) Biomacromolecules, 20 (10), pp. 3831-3841.
- 28) Castaldo, R., Iuliano, M., Cocca, M., Ambrogio, V., Gentile, G., Sarno, M. A new route for low pressure and temperature CWAQ: A PtRu/MoS<sub>2</sub> hyper-crosslinked nanocomposite (2019) Nanomaterials, 9 (10), art. no. 1477.
- 29) Castaldo, R., De Falco, F.D., Avolio, R., Bossanne, E., Fernandes, F.C., Cocca, M., Di Pace, E., Errico, M.E., Gentile, G., Jasinski, D., Spinelli, D., Urios, S.A., Vilkkki, M., Avella, M. Critical factors for the recycling of different end-of- life materials: Wood wastes, automotive shredded residues, and dismantled wind turbine blades (2019) Polymers, 11 (10), art. no. 1604.
- 30) Manini, P., Lino, V., Franchi, P., Gentile, G., Sibillano, T., Giannini, C., Picardi, E., Napolitano, A., Valgimigli, L., Chiappe, C., d'Ischia, M. A Robust Fungal Allomelanin Mimic: An Antioxidant and Potent  $\pi$ -Electron Donor with Free-Radical Properties that can be Tuned by Ionic Liquids (2019) ChemPlusChem, 84 (9), pp. 1331-1337.
- 31) De Falco, F., Cocca, M., Guarino, V., Gentile, G., Ambrogio, V., Ambrosio, L., Avella, M. Novel finishing treatments of polyamide fabrics by electrofluidodynamic process to reduce microplastic release during washings (2019) Polymer Degradation and Stability, 165, pp. 110-116.
- 32) Zhai, T., Verdolotti, L., Kacilius, S., Cerruti, P., Gentile, G., Xia, H., Stanzione, M., Buonocore, G.G., Lavorgna, M. High piezo-resistive performances of anisotropic composites realized by embedding rGO-based chitosan aerogels into open cell polyurethane foams (2019) Nanoscale, 11 (18), pp. 8835-8844.
- 33) Castaldo, R., Ambrogio, V., Avolio, R., Cocca, M., Gentile, G., Emanuela Errico, M., Avella, M. Functional hyper-crosslinked resins with tailored adsorption properties for environmental applications (2019) Chemical Engineering Journal, pp. 497-503.
- 34) Castaldo, R., Lama, G.C., Aprea, P., Gentile, G., Ambrogio, V., Lavorgna, M., Cerruti, P. Humidity-Driven Mechanical and Electrical Response of Graphene/Cloisite Hybrid Films (2019) Advanced Functional Materials, 29 (14), art. no. 1807744, .
- 35) De Falco, F., Guarino, V., Gentile, G., Cocca, M., Ambrogio, V., Ambrosio, L., Avella, M. Design of functional textile coatings via non-conventional electrofluidodynamic processes (2019) Journal of Colloid and Interface Science, 541, pp. 367-375.
- 36) Avella, M., Avolio, R., Cocca, M., Di Pace, E., Errico, M.E., Gentile, G. Focus Point on Microplastic Pollution: Assessment, Effects and Mitigation Strategies (2019) European Physical Journal Plus, 134 (2), art. no. 59.
- 37) Avolio, R., Spina, F., Gentile, G., Cocca, M., Avella, M., Carfagna, C., Tealdo, G., Errico, M.E. Recycling polyethylene-rich plastic waste from landfill reclamation: Toward an enhanced landfill-mining approach (2019) Polymers, 11 (2), art. no. 208, .
- 38) Coppola, S., Nasti, G., Vespini, V., Mecozzi, L., Castaldo, R., Gentile, G., Ventre, M., Netti, P.A., Ferraro, P. Quick liquid packaging: Encasing water silhouettes by three-dimensional polymer membranes (2019) Science Advances, 5 (5), art. no. aat5189.
- 39) Russo, P., Nasti, G., Coppola, S., Gentile, G., Tuccitto, N., Li-Destri, G., Marletta, G., Ferraro, P. Single fibres of pyro-electrospun PVDF-HFP/MWCNT unveil high electrical conductivity (2018) Polymer, 159, pp. 157-161.

- 40) Avolio, R., Castaldo, R., Avella, M., Cocca, M., Gentile, G., Fiori, S., Errico, M.E. PLA-based plasticized nanocomposites: Effect of polymer/plasticizer/filler interactions on the time evolution of properties (2018) *Composites Part B: Engineering*, 152, pp. 267-274.
- 41) De Falco, F., Gentile, G., Avolio, R., Errico, M.E., Di Pace, E., Ambrogi, V., Avella, M., Cocca, M. Pectin based finishing to mitigate the impact of microplastics released by polyamide fabrics (2018) *Carbohydrate Polymers*, 198, pp. 175-180.
- 42) Araújo, R.S., Ferreira, L.C., Rezende, C.C., Marques, M.F.V., Errico, M.E., Avolio, R., Avella, M., Gentile, G., Russo, P. Poly(lactic acid)/Cellulose Composites Obtained from Modified Cotton Fibers by Successive Acid Hydrolysis (2018) *Journal of Polymers and the Environment*, 26 (8), pp. 3149-3158.
- 43) Gentile, G., Cocca, M., Avolio, R., Errico, M.E., Avella, M. Effect of microfibrillated cellulose on microstructure and properties of poly(vinyl alcohol) foams (2018) *Polymers*, 10 (8), art. no. 813.
- 44) De Falco, F., Gentile, G., Di Pace, E., Avella, M., Cocca, M. Quantification of microfibrils released during washing of synthetic clothes in real conditions and at lab scale (2018) *European Physical Journal Plus*, 133 (7), art. no. 257, .
- 45) Marotta, A., Lama, G.C., Ambrogi, V., Cerruti, P., Giamberini, M., Gentile, G. Shape memory behavior of liquid-crystalline elastomer/graphene oxide nanocomposites (2018) *Composites Science and Technology*, 159, pp. 251-258.
- 46) De Falco, F., Gullo, M.P., Gentile, G., Di Pace, E., Cocca, M., Gelabert, L., Brouta-Agnésa, M., Rovira, A., Escudero, R., Villalba, R., Mossotti, R., Montarsolo, A., Gavignano, S., Tonin, C., Avella, M. Evaluation of microplastic release caused by textile washing processes of synthetic fabrics (2018) *Environmental Pollution*, 236, pp. 916-925.
- 47) Castaldo, R., Lama, G.C., Aprea, P., Gentile, G., Lavorgna, M., Ambrogi, V., Cerruti, P. Effect of the oxidation degree on self-assembly, adsorption and barrier properties of nanographene (2018) *Microporous and Mesoporous Materials*, 260, pp. 102-115.
- 48) Belmonte, A., Lama, G.C., Gentile, G., Cerruti, P., Ambrogi, V., Fernández-Francos, X., De la Flor, S. Thermally-triggered free-standing shape-memory actuators (2017) *European Polymer Journal*, 97, pp. 241-252.
- 49) Salzano de Luna, M., Castaldo, R., Altobelli, R., Gioiella, L., Filippone, G., Gentile, G., Ambrogi, V. Chitosan hydrogels embedding hyper-crosslinked polymer particles as reusable broad-spectrum adsorbents for dye removal (2017) *Carbohydrate Polymers*, 177, pp. 347-354.
- 50) Castaldo, R., Gentile, G., Avella, M., Carfagna, C., Ambrogi, V. Microporous hyper-crosslinked polystyrenes and nanocomposites with high adsorption properties: A review (2017) *Polymers*, 9 (12), art. no. 651.
- 51) Belmonte, A., Lama, G.C., Gentile, G., Fernández-Francos, X., De La Flor, S., Cerruti, P., Ambrogi, V. Synthesis and Characterization of Liquid-Crystalline Networks: Toward Autonomous Shape-Memory Actuation (2017) *Journal of Physical Chemistry C*, 121 (40), pp. 22403-22414.
- 52) Araújo, R.S., Rezende, C.C., Marques, M.F.V., Ferreira, L.C., Russo, P., Emanuela Errico, M., Avolio, R., Avella, M., Gentile, G. Polypropylene-based composites reinforced with textile wastes (2017) *Journal of Applied Polymer Science*, 134 (28), art. no. 45060.
- 53) Avolio, R., Gentile, G., Cocca, M., Avella, M., Errico, M.E. Role of silica nanoparticles on network formation and properties in thermoset polycarbonate based nanocomposites (2017) *Polymer Testing*, 60, pp. 388-395.
- 54) Castaldo, R., Avolio, R., Cocca, M., Gentile, G., Errico, M.E., Avella, M., Carfagna, C., Ambrogi, V. A Versatile Synthetic Approach toward Hyper-Cross-Linked Styrene-Based Polymers and Nanocomposites (2017) *Macromolecules*, 50 (11), pp. 4132-4143.
- 55) Simone, P., Pierri, G., Capitani, D., Ciogli, A., Angelini, G., Ursini, O., Gentile, G., Cavazzini, A., Villani, C., Gasparrini, F. Capillary methacrylate-based monoliths by grafting from/to  $\gamma$ -ray polymerization on a tentacle-type reactive surface for the liquid chromatographic separations of small molecules and intact proteins (2017) *Journal of Chromatography A*, 1498, pp. 46-55.
- 56) Tomova, A., Gentile, G., Grozdanov, A., Errico, M.E., Paunovic, P., Avella, M., Dimitrov, A.T. Multinanosensors based on MWCNTs and biopolymer matrix-production and characterization (2017) *Acta Physica Polonica A*, 132 (4), pp. 1251-1255.
- 57) Castaldo, R., Avolio, R., Cocca, M., Gentile, G., Errico, M.E., Avella, M., Carfagna, C., Ambrogi, V. Synthesis and adsorption study of hyper-crosslinked styrene-based

nanocomposites containing multi-walled carbon nanotubes (2017) RSC Advances, 7 (12), pp. 6865-6874.

58) Petrovski, A., Paunović, P., Avolio, R., Errico, M.E., Cocca, M., Gentile, G., Grozdanov, A., Avella, M., Barton, J., Dimitrov, A. Synthesis and characterization of nanocomposites based on PANI and carbon nanostructures prepared by electropolymerization (2017) Materials Chemistry and Physics, 185, pp. 83-90.

59) Nasti, G., Sanchez, S., Gunkel, I., Balog, S., Roose, B., Wilts, B.D., Teuscher, J., Gentile, G., Cerruti, P., Ambrogio, V., Carfagna, C., Steiner, U., Abate, A. Patterning of perovskite-polymer films by wrinkling instabilities (2017) Soft Matter, 13 (8), pp. 1654-1659.

## PATENTS

1) M. Cocca, L. D'Arienzo, L. D'Orazio, G. Gentile, E. Martuscelli, "Procedimento per il Consolidamento e la Protezione di Materiali Lapidari Mediante l'Uso di Copolimeri Uretano-Ureici", Brevetto Nazionale, Nr. domanda NA2004A000021, Numero concessione 0001353462 del 02/02/2009.

2) E. Pedemonte, G. Moggi, S. Vicini, E. Princi, E. Martuscelli, G. Gentile, "Procedimento per il consolidamento e la protezione di materiali lapidei mediante l'uso di copolimeri acrilici", Brevetto Nazionale, Nr. domanda NA2003A000066, Numero concessione 0001346658 del 20/08/2008.

3) E. Pedemonte, E. Martuscelli, S. Vicini, E. Princi, S. Margutti, G. Gentile, L. D'Orazio, "Protezione e consolidamento di materiali a base cellulosica quali tessuti e carta", Brevetto nazionale, Nr. domanda NA2003A000065, Numero concessione 0001346657 del 20/08/2008

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV

Gennaro Gentile

