PERSONAL	Marino Lavorgna	
INFORMATION	💙 Via G.Pitò 18, 82030 Puglia	nello, Italy
	+39 3280450002	
	marino.lavorgna@cnr.it	
	Sex male   Date of birth 10/07/19	70   Nationality Italian
CURRENT POSITION	Research Director at Institute of IPCB-CNR in Portici/Napoli an	of Polymers, Composite and Biomaterials, d Lecco, Italy
RESEARCH TOPICS / EXPERIENCES	<ul> <li>Development of smart and activities useful compounds (antimicrobil Heritage and food packaging sectors)</li> <li>Development of hybrids and national preformed nanoparticles (sectors)</li> <li>Developments (polysaccharides, procultural Heritage sectors)</li> <li>Developments of high specific polymer and inorganic nanopation (polymer)</li> <li>Developments of lightweight million with enhanced thermal insulation and life environments)</li> <li>Multiscale characterization of handle X-Ray diffraction</li> </ul>	ve coating able to control the release of al, antioxidant and anticorrosive) for Cultural ectors anocomposites by using sol-gel approach silica, phyllosilicate, carbon nanotubes and D fillers) in traditional and sustainable oteins) for Transport, Energy, Buildings and surface materials by using sustainable rticles for specific adsorption of VOCs aterials by using organic-inorganic systems on properties (thermal efficiency of buildings apbrid and nanostructured materials by small
KEYWORDS	Polymers, composites, nanopa	rticles, graphene, stimuli-responsive
	particles, sustainable composit	es, multifunctional coatings, advanced
	Hindox (Scopus)	SAND allalysis
SCIENTIFIC / TECHNICAL	No. publications (Scopus):	- 30
QUALIFICATION	No. citations (Scopus):	- >4200

FDUCATION AND	
TRAINING	
December 2009	<ul> <li>PhD in Polymer Technology at Polymer Technology and Engineering</li> </ul>
	Materials (IPTME), Materials Department, Loughborough University,
	Loughborough (UK)
June 1997	- Master degree in "Industrial Chemistry" at University of Naples Federico
	II, June 1997.
since 05/04/2016 to	- Visiting researcher at Department of Materials of Sichuan University in
03/05/2016 and since	the framework of Graphene based Nanocomposite- Joint Lab between
20/08/2017 to 12/09/2017	IPCB-CNR and SKPLME Sichuan University
since 04/10/2010 to	- Visiting researcher at Institute of Macromolecular Chemistry AVCR
14/10/2010	Academy of Sciences of the Czech Republic in the framework of the
	international cooperation between CNR and AVCR (Czech Rep)
since 25/11/2003 to	- Visiting Researcher Associate at Institute of Polymer Technology and
14/11/2004	Engineering Materials, Loughborough University, Loughborough (UK)

WORK EXPERIENCE		
since January 2021	-	Research Director, I Level, National Research Council



since November 2019	- Senior Researcher, II Level, National Research Council
since December 2001	- Researcher, III Level, National Research Council
Since October 1998	<ul> <li>Researcher with temporary position, Department of Engineering of Materials and Production, University Federico II – Naples</li> </ul>

MAIN ROLES AND	
RESPONSIBILITIES	
Since November 2021	<ul> <li>Responsible of the Secondary Working Site of Institute of Polymers, Composites and Biomaterials, IPCB-CNR SS in Lecco</li> </ul>
Since November 2019	<ul> <li>Scientific Responsible of the Secondary Working Site of Institute of Polymers, Composites and Biomaterials, IPCB-CNR SS in Lecco</li> </ul>
Since May 2019	<ul> <li>Member of the Scientific Committee board of the Department of Chemical Science and Materials Technology of the National Research Council (elected by the researchers and technologists of the Department)</li> </ul>
Since May 2014	<ul> <li>Secretary of the Multifunctional Polymers and Biomaterials Research Center established between the Department of Chemical Sciences and Materials Technology of CNR and the Sichuan University</li> </ul>
Since 2008 to 2013	- Member of the Scientific and Technological Committee of IMCB-CNR
Since 2012 to 2017	- Member of the scientific board of the Italy Chemistry Society of the Regione Campania

SERVICE TO NATIONAL
AND INTERNATIONAL

COMMUNITY	
Since 2021	<ul> <li>Component of Editorial Advisory Board of "ACS Applied Polymer Materials" (IF 4.1)</li> </ul>
2020	<ul> <li>Member of the International Evaluation Panel of Bata University in Zlin (Czech Rep)</li> </ul>
Since 2020	<ul> <li>Associate Editor of Polymer Chemistry (Speciality Sections in Frontiers in Chemistry and Frontiers in Materials)</li> </ul>
Since 2019	<ul> <li>Member of Editorial Board of Materials (IF 3.1), MDPI Edition</li> <li>Editor of Polymers (IF 3.5), MDPI Edition from July 2019</li> </ul>
Since 2018	<ul> <li>Permanent member of the International Scientific Committee of the PolyChar Congress, World Forum on Advanced Materials</li> </ul>
Since 2019	<ul> <li>Member of the International Exchanges Panel of the Royal Society grants and awards</li> </ul>
Since 2012 to 2020	<ul> <li>Expert Evaluator for the Kazakistan Council of Research and Technology of research projects in the field of advanced materials</li> </ul>
2015	<ul> <li>Expert Evaluator for the Ministry of Education, Youth and Sports of Czech Rep for the project Individual National Projects for the Area of tertiary Education, research and development</li> </ul>
2013-2018	- International Expert in research project of Sichuan University Talent 111
2013-2018	<ul> <li>International Expert in the Research team of the project by HITSZ International Science and Technology Cooperation Project founded by Shenzhen Government</li> </ul>

2013-2016	<ul> <li>International Expert in the project "Development of polymer nanocomposites by using ILs" [400531/2013-5] of Institute of Quimica of</li> </ul>
	Universida de Federal do Rio Grande do Sol

QUALIFICATION and TEACHING and TUTORING EXPERIENCE	
Since January 2021	<ul> <li>Qualification of I level (full professor for teaching in 09/D1 class (Materials Science and Technology))</li> </ul>
Since 2014 to 2020	<ul> <li>Qualification of II level (associate prof for teaching in 09/D1 class (Materials Science and Technology))</li> </ul>
2012-2014	<ul> <li>University of Sannio, Benevento, Lecturer with temporary position in "Materials Science and Technology"</li> </ul>
2007-2009	<ul> <li>University of Napoli Federico II, Lecturer with temporary position in "Materials Science and Technology"</li> </ul>
2005-2007	<ul> <li>University of Molise, Lecturer with temporary position in "Materials Science and Technology"</li> </ul>
Since 2004	<ul> <li>Tutor of three PhD students from University of Porto Alegre (Brasil), (2014-2015); tutor of several master students from Sichuan University with internship to IPCB-CNR, Portici (2018-2019); tutor of visiting researchers, prof R.Andrade from Mackgraphe Institute (Brazil) and prof Zhan from Liaocheng University (China); tutor of several Master theses with the DICMaPI department of Federico II University (from 2002 – to present), co-tutor of PhD students: A.Cabrini, XXXVI Ciclo, E.Orlo, XXXIII Ciclo; E.Lago, XXXI Ciclo; C.Ascione, XXX Ciclo; F.Piscitelli, XXIII Ciclo and L.Verdolotti, XX Ciclo.</li> </ul>

MAIN RESEARCH	
EXPERIENCE	
2022-2025	<ul> <li>Horizon Europe, "GREen ENdeavor in Art ResToration", GREENART, Gran Agreement finalization, 2022-2025, Responsible CNR, value 330k€.</li> </ul>
2022-2023	<ul> <li>Co-applicant (Applicant prof E.Mele of Loughborough University) of the awarded project "Unravelling the chemical-physical mechanisms that control the spatial distribution of conductive fillers within polymeric nanofibers", International Exchange 2021, Royal Society, value 20k€.</li> </ul>
2022	<ul> <li>Project PRIN "Bio-inspired Plant Protection" BiPP, coordinator prof F. Pennacchio, UNINA, Progetto PRIN - Bando PRIN 2020, Responsible for IPCB SS Napoli/Portici value 120k€.</li> </ul>
2021-2023	<ul> <li>INAIL project PROFIL, Filamenti Multimateriali per la Realizzazione di protesi personalizzate ad alte prestazioni con focus su adaptive sport, funded by INAIL focused on the development of new materials for prosthesis (2020-2023), Coordinator, 2020-2023, value 900k€</li> </ul>
2021-2023	<ul> <li>Industrial project, Jaber Innovation srl "Caratterizzazione di coating barriera agli oli minerali applicati su substrati di cellulosa", IPCB Responsable, value 90k€</li> </ul>
2019-2022	<ul> <li>APACHE "Active &amp; intelligent Packaging materials and display cases as a tool for preventive conservation of Cultural Heritage" Responsible for IPCB, value 140k€.</li> </ul>



2019-2021	Responsible for IPCB of project "Rete Intelligente dei Parchi Archeologici
	(RIPA - PAUN), funded by Campania region)", value 80k€.
2018-2021	<ul> <li>InnovaConcrete, (nr. 760858), "Innovative materials and techniques for the conservation of 20th century concrete-based cultural heritage", Horizon 2020, Responsible for IPCB, value 100k€.</li> </ul>
2018-2020	<ul> <li>Grande Rilevanza project founded by the Minister of Foreign Affairs of Italy "Graphene related INnovative 2D materials for Sustainable ENerGetIcs and catalysis (GINSENG)", PI prof Granozzi (UNIPD), Responsible for IPCB, value 20k€.</li> </ul>
2017-2019	<ul> <li>INAIL project MAPS, Multimaterial for Adapted Prosthetic Socket with INAIL focused on the development of new materials for prosthesis, Responsible for IPCB, value 276k€.</li> </ul>
2015-2018	<ul> <li>Grande Rilevanza project "Graphene and perovskite hybrid materials for energy and environment applications (GRAPE-MAT)" for the international cooperation Italy-China, Responsible for IPCB, value 68k€.</li> </ul>
2015-2018	<ul> <li>Coordinator of Joint Laboratory for Graphene-based Multifunctional Polymer Nanocomposites established between the CNR and SKPLME, Chengdu, China, value 150k€.</li> </ul>
2015-2018	<ul> <li>Horizon 2020, "NANOmaterials for the REStoration of works of ART" NANORESTART, grant agreement No 646063, Responsible for DSCTM- CNR and IPCB, value 280k€</li> </ul>
2013-2015	<ul> <li>International cooperation project "New sustainable approaches in the synthesis of epoxy-silica hybrids with tuneable properties" between IPCB- CNR and IMC (AVCR), Coordinator for CNR, value 15k€.</li> </ul>
2011-2013	<ul> <li>International cooperation project "Electrically conductive polymer nanocomposite films with carbonaceous fillers for electronic packaging" cooperation between CNR and Institute of Organic Chemistry (CAS), Coordinator for CNR, value 15k€</li> </ul>
2007-2009	<ul> <li>MIUR Research Project "Innovative Composite Materials for Buildings Applications", MACE, industrial project IMAST scral, Responsible IPCB, value 820k€.</li> </ul>
2005-2007	<ul> <li>Industrial project, Diatech srl "Development of bio-soluble basalt fibers as reinforcing of composite materials for civil building and automotive applications, TERA Total Ecological Rock Applications", Responsible for IPCB, value 514k€.</li> </ul>
2003-2004	<ul> <li>Misura POR 3.17, "Development of composite materials based on polyurethane for nautic applications", Responsible for IPCB, value 45k€</li> </ul>
2002-2004	<ul> <li>Legge 5/2002, Regione Campania, "Optimization of Nafion ionomeric membrane for Fuel Cells applications by using organo-modified silica domains". Coordinator, value 54k€</li> </ul>

OTHER RELEVANT EXPERIENCES	
Since 2009	<ul> <li>Co-founder of Spin-Off company Hypucem srl addressed to the development and production of organic-inorganic materials for improving the thermal management of buildings and life environments</li> </ul>

HONOURS, AWARDS, MEMBERSHIPS, OTHER QUALIFICATIONS

2007	<ul> <li>Member of the winner team of the International Polymer Challenge Price awarded by VenetoNanotech and Imast scral in 2007 with the project HYPUCEM focused on the realization of a new hybrid material for building applications (Prize 300.000€)</li> </ul>
Since 2003	<ul> <li>Several Highly commendable Awards for papers or posters presented in international congress: a) 5th International Conference on Ground Improvement Techniques, 22-23 March 2004 Kuala Lampur, Malaysia, b) The Polymer Processing Society 24th Annual Meeting, June 15-19, 2008, Salerno (Italy); c) 3rd Shelf Life International Meeting, Ischia 25- 27th June; d) 5th Shelf Life International Meeting, June 2012, Busan (Corea); e) 7th Shelf Life International Meeting for Young, 21-23 October 2015, Monza (Italy).</li> </ul>

ADDITIONAL INFORMATION Publications

List of the most relevant publications (up to 5)

- M.Salzano de Luna, GG.Buonocore, C.Giuliani, E.Messina, G.Di Carlo, M.Lavorgna, L.Ambrosio, GM.Ingo, "Long-Lasting Efficacy of Coatings for Bronze Artwork Conservation: The Key Role of Layered Double Hydroxide Nanocarriers in Protecting Corrosion Inhibitors from Photodegradation", Angewandte Chemie - International Edition, 57(25), pp. 7380-7384, 2018 C.Yu, M.Salzano de Luna, A.Russo, I.Adamiano, F.Scherillo, Z.Wang, X.Zhang, H.Xia, M.Lavorgna, "Role of Diisocyanate Structure on Self-Healing and Anticorrosion Properties of Waterborne Polyurethane Coatings", Advanced Materials Interfaces, 8, 2100117, (2021).
- C.Yu, M.Salzano de Luna, A.Marotta, C.Ponti, I.Esposito, F.Scherillo, Z.Wang, X.Zhang, H.Xia, M.Lavorgna, "NIR light-triggered self-healing waterborne polyurethane coatings with polydopamine-coated reduced graphene oxide nanoparticles", Progress in Organic Coatings, 161, 106499, (2021).
- F.Olivieri, R.Castaldo, M.Cocca, G.Gentile, M.Lavorgna, "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", ACS Applied Materials and Interfaces, 13, 40, 48141–48152, (2021).
- F.Olivieri, R.Castaldo, M.Cocca, G.Gentile, M.Lavorgna, "Mesoporous silica nanoparticles as carriers of active agents for smart anticorrosive organic coatings: a critical review", Nanoscale, 13, 9091-9111, (2021).

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

Signature

Mwanforsen