


## PERSONAL INFORMATION



## Giovanna De Luca

 University of Messina – Department of Chemical, Biological, Pharmaceutical and Environmental Sciences (ChiBioFarAm) – V.le Stagno d'Alcontres, 31 (room A1.C2.1) – Messina, 98166, Italy

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Sex Female | Nationality Italian

## WORK EXPERIENCE

 Since Oct, 01<sup>st</sup> 2024

**Full Professor – General and Inorganic Chemistry**

GSD 03/CHEM-03 Chimica Generale e Inorganica  
 SSD CHEM-03/A Chimica Generale e Inorganica  
 University of Messina – ChiBioFarAm Dept. – Italy

Business or sector Education and Teaching, Research

 Oct, 26<sup>th</sup> 2015 – Sep, 30<sup>th</sup> 2024

**Associate Professor – General and Inorganic Chemistry**

GSD 03/CHEM-03 Chimica Generale e Inorganica  
 SSD CHEM-03/A Chimica Generale e Inorganica  
 University of Messina – ChiBioFarAm Dept. – Italy

**Apr, 12<sup>th</sup> 2017 – Apr, 12<sup>th</sup> 2028: National qualification for the position of Full Professor SC 03/B1 – SSD CHIM/03 General and Inorganic Chemistry**

Business or sector Education and Teaching, Research

 Sep, 11<sup>th</sup> 2023 – Aug, 7<sup>th</sup> 2025

**Designated member of the “Commissione Paritetica Docenti Studenti” (Professors/Students Joint Commission) of the ChiBioFarAm Dept.**

University of Messina – ChiBioFarAm Dept. – Italy

Business or sector Education and Teaching

 Mar, 29<sup>th</sup> 2023-Mar, 28<sup>th</sup> 2026

**Scientific Coordinator of the Research Agreement between the University of Messina and Geo Me-Mo s.r.l.**

University of Messina – ChiBioFarAm Dept. – Italy

Business or sector Research

AA 2017/18 – AA 2020/21

**Coordinator of the 5-year Degree in Pharmaceutical Chemistry and Technology**

University of Messina – ChiBioFarAm Dept. – Italy

Business or sector Education and Teaching

Jul 2014 – Sep 2015

**Delegate to the Bibliographic Resources of the Department of Pharmaceutical Sciences and Health Products**

University of Messina – ChiBioFarAm Dept. – Italy

Business or sector Education and Teaching

 Dec, 30<sup>th</sup> 2011 – Oct, 25<sup>th</sup> 2015

**Permanent researcher – General and Inorganic Chemistry**

SC 03/B1 – SSD CHIM/03 General and Inorganic Chemistry  
 University of Messina – SciFar/ChiBioFarAm Depts. – Italy

Business or sector Education and Teaching, Research

 Dec, 16<sup>th</sup> 2009 – Dec, 29<sup>th</sup> 2011

**Permanent researcher**

National Research Council – Institute for Composite and Biomedical Materials  
 P.le Tecchio, 80 – Naples, 80125, Italy

Business or sector Research

Jun, 25<sup>th</sup> 2007 – June - 24<sup>th</sup> 2009

### Post-doc – Chemical Sciences

University of Messina – Faculty of Mathematical, Physical and Natural Sciences – Italy

- Supervisor: Prof. Luigi Monsù Scolaro
- Research topic: Supramolecular chemistry of porphyrins

Business or sector Research

Jul, 3<sup>rd</sup> 2006 – Jul, 2<sup>nd</sup> 2007

### Post-doc – BIONICS project (ESF)

National Research Council – Institute for Organic Synthesis and Photoreactivity  
Via Gobetti, 101 – Bologna, 40129, Italy

- Supervisor: Prof. Paolo Samorì
- Research topic: Studies of the nanoscopic properties of supramolecular materials through scanning probe microscopies

Business or sector Research

Apr, 1<sup>st</sup> 2006 – Jul, 1<sup>st</sup> 2006

### Post-doc – Biosensors and Bioinstrumentation

University of Messina unit of the Consorzio Interuniversitario di Ricerca in Chimica dei Metalli nei Sistemi Biologici – P.za Umberto I, 1 – Bari, 70121, Italy

- Supervisor: Prof. Luigi Monsù Scolaro
- Research topic: Development of chiroptical sensors for model proteins conformations

Business or sector Research

## TEACHING EXPERIENCE

UNIVERSITY OF MESSINA (IT)

AA 2019/20 – present	<b>General and Inorganic Chemistry – Degree in Pharmaceutical Chemistry and Technology</b> 10 CFU / 72 h – SSD CHEM-03/A (CHIM/03) General and Inorganic Chemistry
AA 2023/24 – present	<b>General Chemistry – Degree in Biological Sciences</b> 7 CFU / 60 h – SSD CHEM-03/A (CHIM/03) General and Inorganic Chemistry
AA 2023/24	<b>Teaching General and Inorganic Chemistry with Epistemological References – Teacher pre-service training programs (D.P.C.M. 4 August 2023)</b> 2 CFU / 12 h – SSD CHEM-03/A (CHIM/03) General and Inorganic Chemistry
AA 2023/24	<b>Teaching Methodologies for General and Inorganic Chemistry – Teacher pre-service training programs (D.P.C.M. 4 August 2023)</b> 1 CFU / 6 h – SSD CHEM-03/A (CHIM/03) General and Inorganic Chemistry
AA 2020/21 – 2022/23	<b>General and Inorganic Chemistry – Degree in Nutraceutical Sciences and Functional Foods</b> 6 CFU / 48 h – SSD CHIM/03 General and Inorganic Chemistry
AA 2016/17 – 2018/19	<b>General and Inorganic Chemistry – Degree in Pharmaceutical Chemistry and Technology</b> 1 CFU / 8 h – SSD CHIM/03 General and Inorganic Chemistry
AA 2015/16 – 2018/19	<b>General and Inorganic Chemistry – Degree in Pharmacy</b> 10 CFU / 80 h – SSD CHIM/03 General and Inorganic Chemistry
AA 2013/14 – 2016/17	<b>Elements of Physical Chemistry – Degree in Pharmaceutical Chemistry and Technology</b> 4 CFU / 32 h – SSD CHIM/02 Physical Chemistry
AA 2013/14 – 2014/15	<b>General and Inorganic Chemistry – Degree in Pharmaceutical Chemistry and Technology</b> 2 CFU / 16 h – SSD CHIM/03 General and Inorganic Chemistry
AA 2012/13	<b>General and Inorganic Chemistry – Degree in Pharmaceutical Sciences Applied to Health Products</b> 6 CFU / 48 h – SSD CHIM/03 General and Inorganic Chemistry

**EDUCATION AND TRAINING**

- 2003 – 2005 **PhD in Chemical Sciences (XVIII cycle)** EQF level 8  
 University of Messina  
 ■ Supervisor: Prof. Luigi Monsù Scolaro  
 ■ PhD thesis title: Porphyrin aggregation phenomena in organic solvents
- Sep, 22<sup>nd</sup> 2002 **Master degree in Chemistry** EQF level 7  
 University of Messina - Italy  
 ■ Graduated summa cum laude  
 ■ Thesis title: Porphyrins nano- and microstructures obtained by UV light irradiation  
 ■ Supervisor: Prof. Luigi Monsù Scolaro
- Sep 1999 – Jul 2020 **Socrates – Erasmus fellowship**  
 Universidad Autónoma de Madrid – Spain

**PERSONAL SKILLS**

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
self assessment					
Spanish	B2	B2	A2	A2	A2
self assessment					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

Digital skills

self-assessment				
Information processing	Communication	Content creation	Safety	Problem solving
proficient user				

- good knowledge of MS Windows and Linux OSs, virtualization environments
- ample expertise of office suites (word processor, spread sheet, presentation software, bibliographic software)
- good command of photo editing, vector graphics software, 3D rendering, visualization software (RasMol, RasTop, POV-Ray, Blender, ChemBio Office, Acrobat Suite, Inkscape, GIMP)
- good knowledge of data analysis software (Origin, PeakFit, Gwyddion, ImageJ)

Driving licence B

Research expertise

- functional bio- and nanomaterials
- sensors and biosensors
- supramolecular chemistry and nanochemistry
- surface functionalization and nanostructuring
- kinetics
- data analysis
- characterization
- spectroscopies (UV/vis absorption, reflection – diffuse and specular, fluorescence – static and dynamic, circular dichroism)
- scattering (resonance light scattering, dynamic light scattering)
- microscopies (optical – transmission/reflection, fluorescence, polarized, scanning probe, electronic)

**ADDITIONAL INFORMATION**

Bibliometric information  
 H-index 23  
 Total citations 2037

Mean citations / article 29.5  
(data from Scopus®, updated on 12/08/2025)

- Publications**
- 1) De Luca, G.;\* Occhiuto, I.; Ielo, I.; Samperi, M.; Zagami, R.; Romeo, A.; Monsù Scolaro, L.\* "Adaptive chirality and chiral memory in fractal porphyrin homoaggregates" XXX **2024**, in preparation
  - 2) Ielo, I.; Bauso, L. V.; Laezza, A.; Campione, P.; Fabiano, L.; Pastorello, M.; Marino, M.; Pepe, A.; Bochicchio, B.;\* De Luca, G.;\* Messina, G. M. L.; Calabrese, G. "In vitro assessment of electrospun PVP-AgNPs scaffolds for bioactive medical use" *International Journal of Molecular Sciences* **2025**, submitted
  - 3) Raccuia, S.G.M.; Zanda, E.; Bretti, C.; Formica, M.; Macedi, E.; Melchior, A.; Tolazzi, M.; Pettignano, A.; Muratore, N.; Lascari, D.; Teresi, E.; Chiavetta, C.; De Luca, G.; Irto, A.; De Stefano, C.; Cardiano, P.; Lando, G. "Sustainable Recovery of Rare Earth Elements from Aqueous Media Using Fruit Pomaces: Adsorption Performance, Thermodynamics, and Environmental Assessment" *Journal of Environmental Chemical Engineering* **2025**, submitted
  - 4) Zanda, E.; Irto, A.; Raccuia, S.G.M.; Bretti, C.; De Luca, G.; Ielo, I.; Zoccali, M.; Arena, A.; Paladini, G.; Caridi, F.; Formica, M.; Macedi, E.; Venuti, V.; De Stefano, C.; Mondello, L.; Cardiano, P.; Lando, G. "Optimisation of the quantum yield of Carbon Quantum Dots prepared from Bergamot Pomace by means of a Full Factorial Experimental Design" *Journal of Environmental Chemical Engineering* **2025**, accepted
  - 5) Morganti, D.; Franco, D.; Rizzo, M. G.; De Plano, L. M.; Iaconis, A.; Calabrese, G.; Nicolò, M. S.; De Luca, G.;\* Corsaro, C.; Fazio, E.; Neri, F.; Giunta, M.; Leonardi, A. A.; Nicotra, G.; Conoci, S.\* "Mn-doped ZnO/Ti Biomaterials for Regenerative Medicine: Development, Characterization and Biological Studies" *Scientific Reports* **2025**, accepted
  - 6) Cigala, R.M.; Papanikolaou, G.; Lanzafame, P.; Sabatino, G.; Tripodo, A.; La Ganga, G.; Crea, F.; Ielo, I.;\* De Luca, G.\* "Transforming waste into sustainable construction materials: durable geopolymers from recycled sources" *Recycling* **2025**, 10, 118 (DOI: 10.3390/recycling10030118)
  - 7) Ielo, I.;\* De Gaetano, F.; Piperopoulos, E.; De Luca, G.;\* Conoci, S. "Easy One-Pot Decoration of Graphene Oxide Nanosheets by Green Silver Nanoparticles" *International Journal of Molecular Sciences* **2025**, 26, 713; (DOI: 10.3390/ijms26020713) (Invited Paper)
  - 8) Raccuia, S. G. M.; Zanda, E.; Bretti, C.; Formica, M. Macedi, E.; Melchior, A.; Tolazzi, M.; Sanadar, M.; Lascari, D.; De Luca G.; Irto, A.;\* De Stefano, C.; Cardiano, P.;\* and Lando G. "Multi-Analytical Approach for the Acid-Base, Thermal and Surface Properties Assessment of Waste Biomasses" *Molecules* **2024**, 29, 5735 (DOI: 10.3390/molecules29235735)
  - 9) Rando, G.; Sfameni, S.; Hadhri, M.; Mezzi, A.; Brucale, M.; De Luca, G.; Piperopoulos, E.; Milone, C.; Drommi, D.; Rosace, G.; Trovato, V. and Plutino M. R. "Methyl Red-loaded halloysite nanotubes-based silica coatings for durable dyeing of polyester fabrics" *Surfaces and Interfaces* **2024**, 53, 105006 (DOI:10.1016/j.surfin.2024.105006)
  - 10) Cigala, R. M.;† De Luca,† G.; Ielo, I.\* and Crea, F. †(co-first authors) "Biopolymeric nanocomposites for CO<sub>2</sub> capture" *Polymers* **2024**, 16, 1063 (doi: 10.3390/polym16081063)
  - 11) Calorenni, P.; Paratore, V.; Rizzo, M. G.; De Plano, L. M.; Condorelli, G. G.; De Luca, G.; Oddo, S.; Guglielmino, S.; Sciuto, E. L.;\* and Conoci, S. "Silicon-based sensing surface for Alzheimer's disease diagnosis by phages probes" *Advanced Materials Interfaces* **2024**, 11, 2300785 (doi: [10.1002/admi.202300785](https://doi.org/10.1002/admi.202300785))
  - 12) Lo Faro, M. J.; Ielo, I.; Morganti, D.; Leonardi, A. A.; Conoci, S.; Fazio, B.; De Luca, G.;\* Irrera A.\* "Alkoxysilane-Mediated Decoration of Si Nanowires Vertical Arrays with Au Nanoparticles as Improved SERS-Active Platforms"

*International Journal of Molecular Sciences* **2023**, *24*, 16685  
(Invited Paper)

- 13) Calabrese, G.;<sup>†</sup> De Luca, G.;<sup>†</sup> Franco, D.; Morganti, D.; Rizzo, M. G.; Bonavita, A.; Neri, G.; Fazio E., Neri, F.; Fazio, B.; Crea, F.; Leonardi, A.; Lo Faro, M. J.; Guglielmino, S. and Conoci, S.\*  
<sup>†</sup>(co-first authors)  
"Structural and antibacterial studies of novel ZnO and Zn<sub>x</sub>Mn<sub>(1-x)</sub>O nanostructured titanium scaffolds for biomedical applications"  
*Biomaterials Advances* **2023**, *145*, 213193
- 14) Ielo, I.; Calabrese, G.;\* De Luca, G.;\* Conoci, S.  
"Recent Advances in Hydroxyapatite-Based Biocomposites for Bone Tissue Regeneration in Orthopedics"  
*International Journal of Molecular Sciences* **2022**, *23* (17), 9721  
(Feature Paper, IJMS Highly Cited Paper in 2022)
- 15) Calabrese, G.;\*<sup>†</sup> De Luca, G.;\*<sup>†</sup> Nocito, G.; Rizzo, M. G.; Lombardo, S. P.; Chisari, G.; Forte, S.; Sciuto E. L.; Conoci, S. († co-first authors)  
"Carbon Dots: An Innovative Tool for Drug Delivery in Brain Tumors"  
*International Journal of Molecular Sciences* **2021**, *22* (21), 11783
- 16) Sciuto, E.L.\* Leonardi A. A.; Calabrese, G.; De Luca G.; Coniglio, M. A.; Irrera, A.; Conoci, S.\*  
"Nucleic Acids Analytical Methods for Viral Infection Diagnosis: State-of-the-Art and Future Perspectives"  
*Biomolecules* **2021**, *11* (11), 1585  
(Feature Paper)
- 17) Trapani, M.; Castriciano M.A.\*; Romeo, A.; De Luca, G.; Machado, N.; Howes, B. D.; Smulevich, G.; Monsù Scolaro, L.\*  
"Nanohybrid Assemblies of Porphyrin and Au<sub>10</sub> Cluster Nanoparticles"  
*Nanomaterials* **2019**, *9* (7), 1026  
(Feature Paper)
- 18) Trapani, M.; Occhiuto, I.; Zagami, R.; De Luca, G.; Castriciano, M.A.; Romeo, A.; Monsù Scolaro, L.\*  
"Mechanism for copper(II) mediated disaggregation of a porphyrin J-aggregate"  
*ACS Omega* **2018**, *3*, 18843-18848
- 19) Dell'Elce, S.; Liscio, F.; Kovtun, A.; Allegri, S.; Roscioni, O.; Albonetti, C.; De Luca, G.; Amenitsch, H.; Demitri, N.; Giorgini, L.; Morandi, V.; Stellacci, F.; Liscio, A.\*; Palermo, V.  
"3D to 2D reorganization of silver-thiol nanostructures, triggered by solvent vapor annealing"  
*Nanoscale* **2018**, *10*, 23018-23026
- 20) De Luca, G.; Bonaccorsi, P.; Trovato, V.; Mancuso, A.; Papalia, T.; Pistone, A.; Casaletto, M. P.; Mezzi, A.; Brunetti, B.; Minuti, L.; Temperini, A.; Barattucci, A.\*; Plutino, M. R.\*  
"Tripodal tris-disulfides as capping agents for a controlled mixed functionalization of gold nanoparticles"  
*New Journal of Chemistry* **2018**, *42*, 16436-16440
- 21) Silipigni, L.\*; Basile, A.; Barreca, F.; De Luca, G.\*; Monsù Scolaro, L.; Fazio, B.; Salvato G.  
"Partial reduction of graphene oxide upon intercalation into exfoliated manganese thiophosphate"  
*Philosophical Magazine* **2017**, *97*(28), 2484-2495
- 22) Rosace, G.\*; Trovato, V.; Colleoni, C.; Caldara, M.; Brucale, M.; Re, V.; Piperopoulos, E.; Mastronardo, M.; Milone, C.; De Luca, G.; Plutino, M. R.\*  
"Structural and morphological characterizations of MWCNTs hybrid coating onto cotton fabric as potential humidity and temperature wearable sensor"  
*Sensors and Actuators B: Chemical* **2017**, *252*, 428-439
- 23) Di Palma, P.; Taddei, C.; Borriello, A.; De Luca, G.; Giordano, M.\*; Iadicicco, A.\*; Campopiano, S.; Sansone, L.  
"Self-assembled colloidal photonic crystal on the fiber optic tip as a sensing probe"  
*IEEE Photonics Journal* **2017**, *9*(2), 7102511
- 24) Liscio, A.; Kouroupis-Agalou, K.; Diez Betriu, X.; Kovtun, A.; Treossi, E.; Pugno, N.; De Luca, G.; Giorgini, L.; Palermo, V.\*  
"Evolution of the size and shape of 2D nanosheets during ultrasonic fragmentation"  
*2D Materials* **2017**, *4*, 025017

- 25) Trapani, M.; De Luca, G.; Romeo, A.; Castriciano, M. A.;\* Monsù Scolaro, L.  
 "Spectroscopic Investigation on Porphyrins Nano-assemblies onto Gold Nanorods"  
*Spectrochimica Acta A* **2017**, 173,343-349
- 26) Occhiuto, I.; Samperi, M.; Trapani, M.; De Luca, G.; Romeo A.; Pasternack, R. F., Monsù Scolaro L.  
 "Aggregates of a cationic porphyrin as supramolecular probes for biopolymers"  
*Journal of Inorganic Biochemistry* **2015**, 153, 361-366
- 27) Zotti, A.; Zuppolini, S.; Giordano, M.; Zarrelli, M.; Borriello, A.; De Luca, G.  
 "Optical aliphatic hydrocarbon gas sensor based on Titanium Dioxide thin film"  
*Proceedings of the 2015 18th AISEM Annual Conference* **2015**, 7066832
- 28) Borriello, A.; Sansone, L.; De Luca, G.; La Manna, P.; Musto, P.; Giordano, M.  
 "Graphene oxide-based nanohybrid for label-free optical sensing"  
*AIP Conference Proceedings* **2014**, 1599, 489-492
- 29) Silipigni, L.;\* Schirò, L.; Monsù Scolaro, L.; De Luca, G.; Salvato, G.  
 "Lithium ions conduction in  $\text{Li}_{2x}\text{Mn}_{1-x}\text{PS}_3$  films"  
*Philosophical Magazine* **2014**, 94 (35), 4026-4036
- 30) Sansone, L.; Malachovska, V.; La Manna, P.; Musto, P.; Borriello, A.;\* De Luca, G.\* Giordano, M.  
 "Nanochemical fabrication of a graphene oxide-based nanohybrid for label-free optical sensing with fiber optics"  
*Sensors and Actuators, B: Chemical* **2014**, 202, 523-526
- 31) Bahrampour, A.; Iadicicco, A.;\* De Luca, G.;\* Giordano, M.; Borriello, A.; Cutolo, A.; Cusano, A.; Monsù Scolaro L.  
 "Porphyrin coated fiber optic probes for acid vapor detection"  
*Proceedings of the SPIE, the International Society for Optical Engineering* **2013**, 8794, 163
- 32) Silipigni, L.;\* Schirò, L.; Monsù Scolaro, L.; De Luca, G.; Salvato, G.  
 "XPS analysis of nanocomposite  $\text{Li}_{2xy}\text{Mn}_{1-x}\text{PS}_3(\text{C}_{13}\text{H}_{11}\text{N}_2)_y$  films"  
*Applied Surface Science* **2013**, 280, 572-577
- 33) Bahrampour, A.; Iadicicco, A.;\* De Luca, G.;\* Giordano, M.; Borriello, A.; Cutolo, A.; Cusano, A.; Monsù Scolaro L.  
 "Porphyrin Thin Films on Fiber Optic Probes through UV-light Induced Deposition"  
*Optics and Laser Technology* **2013**, 49, 279–283
- 34) De Luca, G.; Liscio, A.; Battagliarin, G.; Chen, L.; Monsù Scolaro, L.; Müllen, K.; Samorì, P.;\* Palermo, V.\*  
 "Orthogonal Self Assembly and Selective Solvent Vapor Annealing: Simplified Processing of a Photovoltaic Blend"  
*Chemical Communications* **2013**, 49, 4322-4324
- 35) Cammarano, A.; De Luca, G.; Amendola, E.\*  
 "Surface Modification and Adhesion Improvement of Polyester Films"  
*Central European Journal of Chemistry* **2013**, 1 (1), 35-45
- 36) Occhiuto, I.; De Luca, G.; Trapani, M.; Monsù Scolaro, L.;\* Pasternack, R. F.  
 "Peripheral Step-Wise Degradation of a Porphyrin J-aggregate"  
*Inorganic Chemistry* **2012**, 51 (19), 10074–10076
- 37) Villari, V.; Fazio, A.; De Luca, G.; Trapani, M.; Romeo, A.; Monsù Scolaro, L.; Castriciano, M. A.; Mazzaglia, A.; Micali, N.\*  
 "Scattering enhancement in colloidal metal–organic composite aggregates"  
*Colloids and Surfaces A: Physicochem. Eng. Aspects* **2012**, 413,13–16
- 38) Silipigni, L.;\* Schirò, L.; Monsù Scolaro, L.; De Luca, G.; Salvato, G.  
 "Effects of the intercalation time on the dielectric properties of  $\text{Na}_{2x}\text{Mn}_{1-x}\text{PS}_3$ "  
*Materials Research Bulletin* **2012**, 47, 2498-2505
- 39) Trapani, M.; Plutino, M. R.; Sabatino, G.; Occhiuto, I.; Borriello, A.; De Luca, G.;\* Monsù Scolaro, L.  
 "Metal-Mediated Self-Assembly of Tetrapyrrolyl Porphyrins by  $\text{Na}^+$  Ions"  
*Chemical Communications* **2012**, 48, 5136-5138

(Invited Paper)

- 40) Villari, V.; Fazio, B.; Micali, N.; De Luca, G.; Corsaro, C.; Romeo, A.; Monsù Scolaro, L.; Castriciano, M. A.; Mazzaglia, A.  
"Light scattering enhancement in porphyrin nanocomposites"  
*Complex Materials in Physics and Biology - Proceedings of the International School of Physics "Enrico Fermi"* **2012**, 176, 335-340  
DOI: 10.3254/978-1-61499-071-0-335 ISBN: 978-1-61499-070-3
- 41) Silipigni, L.;\* Schirò, L.; Monsù Scolaro, L.; De Luca, G.; Salvato, G.  
"The XPS and XAES spectra of Na<sub>0.88</sub>Mn<sub>0.56</sub>PS<sub>3</sub>"  
*Applied Surface Science* **2011**, 257, 10888–10892
- 42) Occhiuto, I.; De Luca, G.;\* Villari, V.; Romeo, A.; Micali, N.; Pasternack, R. F.; Monsù Scolaro, L.\*  
"Supramolecular Chirality Transfer to Large Random Aggregates of Porphyrins"  
*Chemical Communications* **2011**, 47, 6045-6047
- 43) Villari, V.;\* Mazzaglia, A.;\* Trapani, M.; Castriciano, M. A.; De Luca, G.; Romeo, A.; Monsù Scolaro, L.; Micali, N.  
"Optical enhancement and structural properties of a hybrid organic-inorganic ternary composite"  
*Journal of Physical Chemistry C* **2011**, 115 (13), 5435–5439
- 44) De Luca, G.; Pisula, W.; Credgington, D.; Treossi, E.; Fenwick, O.; Lazzerini, G. M.; Dabirian, R.; Orgiu, E.; Liscio, A.; Palermo, V.;\* Müllen, K.;\* Cacialli, F.\*; Samorì, P.\*  
"Non-conventional processing and post-processing methods for the nanostructuring of conjugated materials for organic electronics"  
*Advanced Functional Materials* **2011**, 23 (7), 1279–1295  
**(Feature Article; inside cover)**
- 45) Castriciano, M. A.; Romeo, A.; De Luca, G.; Villari, V.; Monsù Scolaro, L.;\* Micali, N.\*  
"Scaling the Chirality in Porphyrin J-nanoaggregates"  
*Journal of the American Chemical Society* **2011**, 133 (4), 765–767
- 46) Silipigni, L.;\* Schirò, L.; Grasso, V.; Salvato, G.; Monsù Scolaro, L.; De Luca, G.  
"Dielectric response of the manganese thiophosphate intercalated with potassium ions"  
*Il Nuovo Cimento B* **2010**, 125 (5-6), 539-545
- 47) Stelitano, S.;\* Ridolfo, A.; De Luca, G.; Savasta, S.; Patané, S.  
"Strong coupled organic microcavities"  
*Journal of Physics: Conference Series* **2010**, 210, 012022
- 48) Castriciano, M.A.;\* Carbone, A.;\* Saccà, A.; Donato, M.G.; Micali, N.;\* Romeo, A.; De Luca, G.; Monsù Scolaro, L.\*  
"Optical and sensing features of TPPS4 J-aggregates in Nafion® membranes: influence of casting solvents"  
*Journal of Materials Chemistry* **2010**, 20 (14), 2882-2886
- 49) De Luca, G.; Treossi, E.; Liscio, A.; Mativetsky, J. M.; Monsù Scolaro, L.; Palermo, V.;\* Samorì, P.\*  
"Solvent Vapour Annealing of organic thin films: controlling the self-assembly of functional systems across multiple length scales"  
*Journal of Materials Chemistry* **2010**, 20 (13), 2493-2498  
**(Highlight Article)**
- 50) De Luca, G.; Liscio, A.; Melucci, M.; Schnitzler, T.; Pisula, W.; Clark, C. G. jr; Monsù Scolaro, L.; Palermo, V.;\* Müllen, K.;\* Samorì, P.\*  
"Phase separation and affinity between fluorinated perylene diimide dye and an alkyl substituted hexa-*peri*-hexabenzocoronene"  
*Journal of Materials Chemistry* **2010**, 20 (1), 71-82  
**(Inside cover; Top-Ten downloaded articles)**
- 51) De Luca, G.;\* Romeo, A.; Monsù Scolaro, L.;\* Pasternack, R. F.  
"Conformations of a model protein revealed by an aggregating Cu<sup>I</sup> porphyrin: sensing the difference"  
*Chemical Communications* **2010**, 46, 386-388
- 52) Silipigni, L.;\* Schirò, L.; Grasso, V.; Salvato, G.; Monsù Scolaro, L.; De Luca, G.  
"Effects of the alkali-metal intercalation on the dielectric properties of manganese thiophosphate"  
*Il Nuovo Cimento B* **2009**, 124 (4), 427-434

- 53) Stelitano, S.\* De Luca, G.; Savasta, S.; Monsù Scolaro, L.; Patané, S.  
"Vertical coupled double organic microcavities"  
*Applied Physics Letters* **2009**, 95 (9), 093303
- 54) De Luca, G.; Romeo, A.; Monsù Scolaro, L.\* Ricciardi, G.; Rosa, A.\*  
"Sitting-Atop metallo-porphyrin complexes: experimental and theoretical investigations on such elusive species"  
*Inorganic Chemistry* **2009**, 48 (17), 8493–8507
- 55) Stelitano, S.\* Savasta, S.; Patané, S.; De Luca, G.; Monsù Scolaro, L.  
"Origin Of Giant Polarization Splitting In High Quality Organic Microcavities"  
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"Self-organizing functional materials via Ionic Self Assembly: porphyrins H- and J-aggregates on synthetic chrysotile nanotubes"  
*Journal of the American Chemical Society* **2009**, 131 (20), 6920–6921
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"The Relationship between Nanoscale Architecture and Function in Photovoltaic Multichromophoric arrays as visualized by Kelvin probe force microscopy"  
*Journal of the American Chemical Society* **2008**, 130(44), 14605 – 14614
- 61) De Luca, G.; Liscio, A.; Nolde, F.; Monsù Scolaro, L.; Palermo, V.\* Müllen, K.\* Samorì, P.\*  
"Self-assembly of discotic molecules into mesoscopic crystals by solvent-vapour annealing"  
*Soft Matter* **2008**, 4(10), 2064-2070
- 62) Liscio, A.; De Luca, G.; Nolde, F.; Palermo, V.\* Müllen, K.\* Samorì, P.\*  
"Photovoltaic Charge Generation Visualized at the Nanoscale: A Proof of Principle"  
*Journal of the American Chemical Society* **2008**, 130(3), 780 – 781  
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- 63) Silipigni, L.\* Acacia, N.; Quattrone, T.; De Luca, G.; Monsù Scolaro, L.; Salvato, G.  
"Spectroscopic studies on manganese thiophosphate intercalated with cesium ions"  
*Journal of Applied Physics* **2007**, 102(11), 113713
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"Nucleation governed reversible self-assembly of an organic semiconductor at surfaces: long-range mass transport forming giant functional fibers"  
*Advanced Functional Materials* **2007**, 17(18), 3791 – 3798  
**(“Advances in Advance” article; Cover; highlighted in ACS Noteworthy Chemistry, 31 Dec 2007; highlighted in Materials Views (Wiley) 2008, Jen, A1-A6)**
- 65) De Luca, G.; Romeo, A.; Monsù Scolaro, L.\* Ricciardi, G.\* Rosa, A.\*  
"Evidence for tetraphenylporphyrin monoacids"  
*Inorganic Chemistry* **2007**, 46(15), 5979 – 5988
- 66) De Luca, G.; Pollicino, G., Romeo, A.; Patanè, S.; Monsù Scolaro, L.\*  
"Control over the optical and morphological properties of UV-deposited porphyrin structures"  
*Chemistry of Materials* **2006**, 18(23), 5429-5436

- 67)** De Luca, G.; Romeo, A.; Monsù Scolaro, L.\*  
 "Aggregation properties of hyperporphyrins with hydroxyphenyl substituents"  
*Journal of Physical Chemistry B* **2006**, *110*(29), 14135-14141
- 68)** Grasso, V.; Quattrone, T.;\* Silipigni, L.; De Luca, G.; Monsù Scolaro, L.; Salvato, G.  
 "Optical and electronic properties of manganese thiophosphate and H<sub>2</sub>T<sub>4</sub> porphyrin metal complexes films"  
*Il Nuovo Cimento C* **2006**, *29*(3), 325-334
- 69)** Silipigni, L.;\* De Luca, G.; Quattrone, T.; Monsù Scolaro, L.; Salvato, G.; Grasso, V.  
 "An XPS analysis of the interaction of meso(N-methylpyridinium-4-yl)porphyrin with exfoliated manganese thiophosphate"  
*Journal of Physics: Condensed Matter* **2006**, *18*(24), 5759-5772
- 70)** De Luca, G.; Pollicino, G., Romeo, A.; Monsù Scolaro, L.\*  
 "Sensing behavior of tetrakis(4-sulfonatophenyl)porphyrin thin films"  
*Chemistry of Materials* **2006**, *18*(8), 2005-2007
- 71)** De Luca, G.; Romeo, A.; Monsù Scolaro, L.\*  
 "Counteranion Dependent Protonation and Aggregation of Tetrakis(4-sulfonatophenyl)porphyrin in Organic Solvents"  
*Journal of Physical Chemistry B* **2006**, *110*(14), 7309-7315
- 72)** Silipigni, L.;\* Grasso, V.; De Luca, G.; Monsù Scolaro, L.; Salvato, G.  
 "Electronic core levels of layered Li<sub>2x</sub>Mn<sub>1-x</sub>PS<sub>3</sub>"  
*Journal of Applied Physics* **2005**, *98*(4), 43307
- 73)** De Luca, G.; Romeo, A.; Monsù Scolaro, L.\*  
 "Role of counteranions in acid-induced aggregation of isomeric tetrapyrrolylporphyrins in organic solvents"  
*Journal of Physical Chemistry B* **2005**, *109*(15), 7149-7158
- 74)** Monsù Scolaro, L.;\* Romeo, A.; Castriciano, M.A.; De Luca, G.; Patanè, S.; Micali, N.  
 "Porphyrin deposition induced by UV irradiation"  
*Journal of the American Chemical Society* **2003**, *125*(8), 2040-2041

#### Presentations at conferences

Prof. De Luca is author/co-author of more than eighty communications at national and international congresses, eleven of these being oral contribution as speaker (four at international and seven at national conferences).

#### Memberships and Scientific Appointments

- Jun 2025 – May 2026  
 Research Associate of the Institute for Microelectronics and Microsystems (Messina, IT) of the CNR
- Jun 2022 – May 2024  
 Research Associate of the Institute for Organic Synthesis and Photoreactivity (Bologna, IT) of the CNR
- Jul 2021 – Nov 2024  
 Member of the Research Unit at Third Parties (URT) of the Department of Physical Sciences and Technologies of Matter of the CNR, established at the University of Messina (IT)  
 Project: "Materials and processes Beyond the Nano-scale (Beyond-Nano upgrade)"
- Dec 2015 – Dec 2018  
 Research Associate of the Institute for Composite and Biomedical Materials (Naples, IT) of the CNR

#### Visiting researcher/professor

- Sep, 16<sup>th</sup> 2015 – Oct, 4<sup>th</sup> 2015  
 Visiting professor at the Institut de Science et d'Ingénierie Supramoléculaires (ISIS) – University of Strasbourg (FR)
- Oct, 25<sup>th</sup> 2010 – Nov, 21<sup>st</sup> 2010  
 Visiting professor at the Institut de Science et d'Ingénierie Supramoléculaires (ISIS) – University of Strasbourg (FR)
- Jun, 28<sup>th</sup> 2010 – Jul, 15<sup>th</sup> 2010  
 Visiting researcher at the Department of Chemistry & Biochemistry, Swarthmore College –

- Swarthmore (PA), United States, Prof. Robert F. Pasternack labs
  - Apr, 27<sup>th</sup> 2010 – May, 19<sup>th</sup> 2010  
Visiting Researcher at the Nanochemistry Laboratory, Institut de Science et d'Ingénierie Supramoléculaires (ISIS) – University of Strasbourg, directed by Prof. Paolo Samorì
  - Feb, 2005 – Aug, 2005  
Scientific collaboration at the Department of Chemistry and Biochemistry, Swarthmore College, Swarthmore, PA- United states, under the supervision of Prof. Robert F. Pasternack  
Funding: MURST (IT), NIH (US)
- Honors and awards**
- XIV Forum – Borsa della ricerca 2023 – Oct, 16<sup>th</sup> -18<sup>th</sup> 2023, Catania (IT):  
winner of one\* of the four BdR Awards with the business idea “cirQlar”  
Proponents: G. De Luca, I. Ielo, G. La Ganga, R. M. Cigala  
\* put up by Fondazione per la Sostenibilità digitale
  - 8° Congresso Nazionale di Chimica Supramolecolare: Best Poster Presentation (2nd place)
  - Innovation Competition “Start Cup dello Stretto 2007/2008”, University of Messina (IT)  
1<sup>st</sup> place for the business plan “Nanomaterial Optics s.n.c.”
  - “Progetto S.T.R.E.T.T.O. – Dalla Ricerca all’Impresa” (2008)  
1<sup>st</sup> place for the business plan
  - 11 fellowships for participation to congresses
- Supervisor activity**
- 4 bachelor students
  - 6 master students
  - 2 PhD students
  - 4 post-docs
  - 1 Researcher
- Seminars**
- Sep, 28<sup>th</sup> 2015 – Institut de Science et d'Ingénierie Supramoléculaires (ISIS), University of Strasbourg (FR)
  - Sep, 23<sup>rd</sup> 2015 – Institut de Science et d'Ingénierie Supramoléculaires (ISIS), University of Strasbourg (FR)
  - Nov, 16<sup>th</sup> 2010 – Institut de Science et d'Ingénierie Supramoléculaires (ISIS), University of Strasbourg (FR)
  - May, 19<sup>th</sup> 2009 – Alma Mater Studiorum, University of Bologna – LEBSC department
  - Mar, 26<sup>th</sup> 2007 – CNR-ISOF, Bologna, Italy – Supramolecular Materials for New Functional Structures ( SUPRAMATES), ESF-SONS – kick-off meeting
  - Mar, 22<sup>nd</sup> 2006 – CNR-ISOF, Bologna, Italy
  - Jun, 22<sup>nd</sup> 2005 - Swarthmore College, Swarthmore (PA), United States
- Funding**
- **Rome Technopole Innovation Ecosystem – Bando a cascata per il sostegno di Progetti Ricerca&Sviluppo– Spoke 3 - 2024**  
*Biomimetic Electrospun Scaffold as sustainable wound DRESSing device (BEST-DRESS)*  
Coordinator: Prof. Brigida Bochicchio (UniBas)
  - **FFABR UniME 2023**  
Coordinator: Prof. Giovanna De Luca
  - **Piano Nazionale per gli investimenti Complementari al PNRR - Finanziamenti destinati ad iniziative di ricerca per tecnologie e percorsi innovativi in Ambito sanitario e assistenziale**  
**ANTHEM: AdvANced Technologies for Human-centEred Medicine**  
Coordinator: Prof. Manuela Esposito (UniME)
  - **Piano di Sviluppo e Coesione del Ministero della Salute 2014-2020 - Piano Operativo Salute - Traiettorie 4 “Biotecnologia, bioinformatica e sviluppo farmaceutico”**  
**Pharma-HUB – CUP J43C22000500006 – id T4-AN-04**  
*HUB per il riposizionamento di farmaci nelle malattie rare del sistema nervoso in età pediatrica*  
*(Hub for drug repurposing in rare pediatric neurologic diseases)*  
Coordinator: Prof. Salvatore Cuzzocrea (UniME)
  - **Ecosistema SAMOTHRACE – Sicilian MicronanOTECH Research And Innovation Center**  
Coordinator: Prof. Salvatore Cuzzocrea (UniME)
  - **EIC Pathfinder OPEN 2021 – ECLIPSE – G.A. n. 101046787**  
*ECL-based Infectious Pathogen (bio)Sensor*  
Coordinator: Prof. Luca Prodi (UniBO)
  - **PON R&I 2014-2020 – Azioni IV.4 – Dottorati e contratti di ricerca su tematiche dell’Innovazione, DM 1062/2021**  
*Materiali nanostrutturati per sensori innovativi “Genetic Point of Care”*

- (Nanostructured Materials for “Genetic Point of Care” innovative sensors”  
Coordinator: Prof. Giovanna De Luca (UniME)
- **PO FESR 2014-2020 - “LIVER Smart Drug” – no. 087219090463 - CUP: G6818000640007**  
*Micro e nanosistemi innovativi per la cura efficace del Tumore al Fegato (Micro and nanosystems for the effective treatment of Liver Cancer)*
  - **MISE PO I&C 2014-2020 “ORTHO Line” – no. F/190169/01-03/X44**  
*Sviluppo linea di produzione per artroprotesi di titanio trabecolato (Development of production line for trabeculated titanium arthroplasty)*  
Coordinator: MT Ortho S.r.l.
  - **PON R&I 2014-2020 – AVVISO 1735/2017 – “BONE++” – ARS01\_00693**  
*Sviluppo di micro e nanotecnologie per la predittività, la diagnosi, la terapia e i trattamenti rigenerativi delle alterazioni patologiche dell'osso e osteo-articolari (Development of micro and nanotechnologies for the predictivity, diagnosis, therapy and regenerative treatments of pathological changes in the bone and osteo-articular)*  
Coordinator: Prof. Salvatore Cuzzocrea (UniME)
  - **FFABR UniME 2021**  
Coordinator: Prof. Giovanna De Luca
  - **FFABR UniME 2019**  
Coordinator: Prof. Giovanna De Luca
  - **H2020-MSCA-ITN-2018\_ULTIMATE (project no. 813036):**  
*Bottom-Up generation of atomically precise synthetic 2D Materials for high performance in energy and Electronic applications – A multi-site innovative training action*  
Coordinator: Prof. Paolo Samorì (UniSTRA, FR)  
Local contact: Prof. Giovanna De Luca (UniME)
  - **PON – RI 2017 – “Blue Growth” – THALASSA (Project no. ARS01\_00293)**  
*Technology And materials for safe Low consumption And low life cycle cost vessels And crafts*  
Coordinator: Prof. Edoardo Proverbio (UniME)
  - **Research and Mobility 2015 – Università di Messina**  
*Development of novel small molecules and their complexes with nanostructured carriers for a multi-target anti-HIV/AIDS strategy*  
Coordinator: Prof. Laura De Luca (UniME)
  - **Cooperation agreement CNR - ASM (Moldova) 2011/12 – prot.17894 of 25/02/11**  
*Development and testing of an optoelectronic sensor based on TiO<sub>2</sub> nanotubes*  
Coordinator: Ing. Mauro Zarrelli (IMCB-CNR)
  - **PRIN 2010-2011 - prot. 2010C4R8M8\_003):**  
*Organizzazione funzionale a livello nanoscopico di (bio)molecole e ibridi per applicazioni nel campo della sensoristica, della medicina e delle biotecnologie*  
Coordinator: Prof. Angela Agostiano (UniBa)
  - **FP7-SME-2011 (project no. 286998)\*:**  
*Multianalyte automatic system for the detection of drug resistant bacteria (OPTObacteria)*  
Coordinator: Prof. Maria Paola Costi (UniMore)  
IMCB-CNR unit leader: Dr. Anna Borriello (IPCB-CNR)
  - **PRIN 2008 - prot. 2008A9C4HZ\_002:**  
*Sistemi auto-organizzati di porfirine su matrici biologiche ed inorganiche (Self-organized porphyrin systems on biological and inorganic matrices)*  
Coordinator: Prof. Angela Agostiano (UniBa)
  - **PRIN 2006 - prot. 2006031909\_004:**  
*Aggregati e complessi supramolecolari di porfirine con biopolimeri e ciclodestrine: indagini su proprietà ottiche, fotofisiche e bio-trasporto (Porphyrin aggregates and supramolecular complexes with biopolymers and cyclodextrins: investigations of optical, photophysical and bio-transport properties)*  
Coordinator: Prof. Angela Agostiano (UniBa)
  - **Progetto di Ricerca di Ateneo – UniME 2006-2007:**  
*Studi cinetici sull'attivazione del legame C-H mediante complessi di platino(II) (Kinetic studies on C-H bond activation with Pt(II) complexes)*  
Coordinator: Prof. Raffaello Romeo (UniME)
  - **Progetto di Ricerca di Ateneo – UniME 2005:**  
*Studi Meccanicistici su Complessi di Platino(II) Finalizzati all'Attivazione del Legame C-H e alla Sintesi di Nuovi Complessi ad Estesa Planarità (Mechanistic investigations on Pt(II) complexes aiming to C-H bond activation and to the synthesis of new extended-planarity complexes)*  
Coordinator: Prof. Raffaello Romeo (UniME)
  - **Progetto di Ricerca di Ateneo – UniME 2004:**  
*Studi Meccanicistici su Complessi di Platino(II) Come Guida alla Attivazione del Legame C-H e alla Sintesi di Sistemi Molecolari Complessi*

*(Mechanistic studies on Pt(II) complexes as a guide to the activation of the C-H bond and the synthesis of complex molecular systems*

Coordinator: Prof. Raffaello Romeo (UniME)

- **Progetto di Ricerca di Ateneo – UniME 2003:**  
*Studi meccanicistici e strutturali su composti organometallici di platino(II) e su porfirine come guida alla sintesi di sistemi supramolecolari*  
*(Mechanistic and structural studies on Pt(II) complexes and porphyrins as guides to the synthesis of supramolecular systems)*  
Coordinator: Prof. Raffaello Romeo (UniME)

#### Peer review activity

- The Journal of Physical Chemistry B (American Chemical Society)
- The Journal of Physical Chemistry C (American Chemical Society)
- Inorganic Chemistry (American Chemical Society)
- ACS Applied Materials and Interfaces (American Chemical Society)
- Journal of Photochemistry and Photobiology A: Chemistry (Elsevier)
- Sensors and Actuators B: Chemical (Elsevier)
- Arabian Journal of Chemistry (Elsevier)
- Colloids and Surfaces A (Elsevier)
- Chemical Communications (RSC)
- Chemistry, an Asian Journal (Wiley)
- Nanomaterials (MDPI)
- International Journal of Molecular Sciences (MDPI)
- ACS Applied Polymer Materials (American Chemical Society)
- Crystal Growth & Design (American Chemical Society)
- Journal of Porphyrins and Phthalocyanines
- Scientific Reports (NPG)
- Materials Advances (RSC)

#### Expert reviewer in projects evaluation

- European: HORIZON-WIDERA-2023-ACCESS-02
- European: H2020 – MSCA – IF – 2020 (IEF, RI, CAR, GF)
- European: H2020 – MSCA – IF – 2019 (IEF, RI, CAR, GF)
- National: "Interventi di sostegno a progetti di ricerca di base" – Regione Sardegna
- European: H2020 – MSCA – IF – 2018 (IEF, RI, CAR, GF)
- European: H2020 – MSCA – IF – 2017 (IEF, RI, CAR, GF)
- European: H2020 – MSCA – IF – 2016 (IEF, RI, CAR, GF)
- European: H2020 – MSCA – IF – 2016 (IEF, RI, CAR, GF)
- European: H2020 – FET-OPEN – 2015, 2nd cut
- European: H2020 – MSCA – IF – 2015 (IEF, RI, CAR, GF)
- National: Progetti di Ricerca SIR 2014
- European: H2020 – MSCA – IF - 2014
- European: FP7-Marie Curie 2013:
- FP7-People-2013-IEF
- FP7-People-2013-IOF
- FP7-People-2013-IIF
- National: FIRB "Futuro in Ricerca 2013"
- National: FIRB "Futuro in Ricerca 2012", CNR-driven selection for "Physical Sciences and Engineering"
- National: FIRB "Futuro in ricerca 2010"

#### Conference organization

- Member of the Scientific Committee of the Ph.D International Summer School "Biomaterials Development for Medical Devices: From Bench to Market", June 12<sup>th</sup>-14<sup>th</sup> 2025, Potenza (IT)
- Member of the Organizing Committee of the Congresso Nazionale di Chimica Supramolecolare "Supramol 2015", Sep 27<sup>th</sup> – 30<sup>th</sup> 2015, Giardini Naxos (ME, IT)
- Member of the Organizing Committee of the 4th National Conference CD.TE.C, Giardini Naxos, Messina (IT), May 9<sup>th</sup> – 11<sup>th</sup> 2013
- Member of the Organizing Committee of the Second International Summer School on Cyclodextrins, Giardini Naxos, Messina (IT), May 8<sup>th</sup> – 9<sup>th</sup> 2013
- Member of the Organizing Committee of the Joint Conference of the Italian Chemical Society – Sicily and Calabria sections

Messina – August, 12<sup>th</sup> 2025

In faith,  
Giovanna De Luca