


CURRICULUM VITAE	
	
PERSONAL INFORMATION	
Name	Maria, Angela Castriciano
Email	mcastriciano@unime.it
PEC	maria.castriciano@pec.it
Date and place of birth	25/06/1975 Messina
Nationality	Italian
WORK EXPERIENCE	
	1 September 2021 to date University of Messina, Department of Chemical, Biological, Pharmaceutical and Environmental Sciences, Messina, Italy Researcher 240/10 – R.T.D. B
	01/01/2008 – 31 August 2021 National Research Council - Institute for the Study of Nanostructured Materials (CNR-ISMN), Palermo, Italy Researcher (T.I.)
	16/05/2007 - 01/01/2008 University of Messina, Department of Inorganic, Analytical and Physical Chemistry, Messina, Italy Research Fellowship “Assegno di Ricerca” area 03 "Organized supramolecular structures of porphyrins and platinum(II) complexes: structural and kinetic investigations"
	08/03/2005 - 08/03/2006 Interuniversity Consortium of Metal Chemistry in Biological Systems, C.I.R.C.M.S.B. University of Messina, Department of Inorganic, Analytical and Physical Chemistry, Messina, Italy Research Fellowship on the topic "Supramolecular systems of porphyrins/polyamines as biomimetic systems and potential agents in PDT"
	13/09/2004 - 15/10/2004 University of Messina, Department of Inorganic Chemistry, Analytical Chemistry and Physical Chemistry, V.le F. Stagno D'Alcontres 31 98166 Messina Co.Co.Pro in PRIN 2002 project (Prot. 2002033817). Research activities "Organized supramolecular structures of porphyrins and platinum (II) complexes: structural and kinetic investigations"
	01/07/2002 - 01/07/2004 University of Messina, Department of Inorganic, Analytical and Physical Chemistry Research Fellowship “Assegno di Ricerca” area 03 “Organized supramolecular structures of porphyrins and platinum (II) complexes: structural and kinetic investigations"
	From 07/01/2000 to 29/01/2000 ST Microelectronics, Catania, Italy Researcher (T.I.)
FORMATION	
	February, 2002 Doctor (Ph.D equivalent) in Chemical Science, University of Messina (Messina, Italy). Supervisor Prof. Luigi Monsù Scolaro. Thesis title: “Mesoscopic Structures through supramolecular assemblies of porphyrins”

Date	July, 1998
Course name and Educational or training institution	Laurea (M.S. equivalent) in Chemistry, University of Messina (Messina, Italy), "cum laude". Supervisor Prof. Luigi Monsù Scolaro. Thesis title: "Fractal aggregation of porphyrins in aqueous solution"
BIBLIOMETRIC DATA	
	To DATE
H-index	25 (Scopus);
Number of total citations	1679 (Scopus);
Articles in ISI journals	70
Conference proceedings with ISBN	16
Conference proceedings	Over 120
SCIENTIFIC ACTIVITY	
	The research activity is mainly addressed i) to the synthesis, functionalization and characterization of nano and mesoscopic structures of organic, inorganic and hybrid materials suitably designed for applications as sensors, optoelectronic and drug delivery systems; ii) the study of the aggregation phenomena in solution and supramolecular organization of chromophores on polymers, on biological matrices and in confined environments, with particular regard to the expression and transmission of chirality on the nano and mesoscopic scale; (iii) the design, synthesis and characterization of porphyrins and their metal derivatives as photosensitizers and functional materials in composite polymeric membranes for fuel cell applications; iv) the characterization of chromophoric systems with static and time-resolved spectroscopic techniques and light diffusion. The research activity has produced to date 70 original papers published in international peer-review, WoS and / or Scopus scientific journals and over 120 communications at national and international scientific congresses. The scientific production, is the result of national (University of Padua, University of Catania, Polytechnic of Milan, University of Naples Federico II, University of Siena, University of Salento, University of Bari, University of Modena and Reggio Emilia, University of Pisa, CNR-ISMN, CNR-ITAE, CNR-IPCF, CNR-ISOF, CNR-ICCOM, CNR-IPCB) and international collaborations (University of Nijmegen The Netherland, Max-Planck Institute Germany, University of Strasbourg France, Swarthmore College PA USA) and funded national and international projects.
P.I. in FUNDED PROJECTS	
	1. Research project: PON "Research and Innovation" 2014-2020. MIUR DD n. 1448/2021. Title: Nausica, NAvi efficienti attraverso l'uso di tecnologiche Innovative e low CARbon (ARS01_0034) Role: P.I. of activity in work package
	2. Research project: PON "Research and Innovation" 2014-2020. MIUR DD. n. 539, 21 March 2019 Title: TETI, TEcnologie innovative per il controllo, il moniToraggio e la slsicurezza in mare (ARS01_0 0333). Role: P.I. of the CNR team
	3. Research project: PON "Research and Innovation" 2014-2020. MIUR DD. n. 1619, 9 August 2019 Title: E-Crops - Technologies for Sustainable Digital Agriculture ARS01_01136. Role: P.I. of the CNR team
	4. Research Project PRIN 2015 MIUR D.D. n. 2634, November 2016.


	<p>Title: Towards quantum photovoltaics: ultrafast energy and charge transport in hybrid nanomaterials - Prot. 2015XBZ5YA. National Coordinator Prof. Elisabetta Collini, University of Padova. Other participating units: - University of Modena and Reggio Emilia, CNR-ISMN, CNR-IPCF, CNR-ICCOM, University of Naples "Federico II</p> <p>Role: P. I. of the CNR-ISMN Research Unit</p>
	<p>5. Sub-Contract in ERC- StG-278560 Project VII Framework Program for Research and Technological Development of the European Union.</p> <p>Title: Supply of chiral multichromophoric molecular systems obtained by covalent and/or supramolecular approach", within the Project "Quantum coherent drive of energy transfer along helical structures by polarized light QUENTRHEL ERC- StG-278560" Funded to Prof. Elisabetta Collini, University of Padua.</p> <p>Role: P.I. of CNR-ISMN research unit</p>
	<p>6. University Research Program (PRA) Young Researcher, University of Messina Prot. N.15720, 23/03/2007</p> <p>Title: Supramolecular complexes with polyamines as biomimetic systems and potential agents in photodynamic therapy.</p> <p>Role: P.I.</p>
	<p>7. Research contract Co.Co.Pro. within the PRIN – COFIN 2002 project (Prot. 2002033817), University of Messina Prot. N.15720, 23/03/2007</p> <p>Title: Supramolecular organization of natural and synthetic porphyrins</p>
PARTICIPATION IN PROJECTS	
	<p>1. Operational Program, European Social Fund, Sicily 2020, P.O. ESF 2014/2020</p> <p>Title: Innovative and Sustainable Materials for Health and Energy (MatISSE)" (CUP: G77B17000180009)</p> <p>Role: Project participant</p>
	<p>2. PON R&C 2007-2013 of the MIUR referred to in the Directorial Decree prot. 713/Ric of 29/10/2010 Axis I - Support for Structural Changes, High Technology Districts and related networks-/Public-private laboratories and related networks - Title III - Creation of New Districts and/or New Public/Private Aggregations - Title III - Domanda PON03PE_00216_1</p> <p>Title: "Drug Delivery: Vehicles for Sustainable Innovation"</p> <p>Role: Project participant</p>
	<p>3. Operational Program Convergence Objective 2007-2013, European Social Fund, Sicilian Region Project No. 20 (ID. 11)</p> <p>Title: Nanomaterials and Nanotechnologies for Sustainable Development and Cultural Heritage" (CUP: G78B14000 100006)</p> <p>Role: Project participant</p>
	<p>4. National Interest Research Project (PRIN 2010-2011), MIUR D.D. n. 719, 23/10/2012</p> <p>Title: Functional organization at the nanoscopic level of (bio)molecules and hybrids for applications in the field of sensors, medicine and biotechnology.</p> <p>Role: Project participant</p> <p>National Coordinator Prof. Angela Agostiano (University of Bari). Other participating units: University of Messina; University of Pisa; University of Padua; University of Modena and Reggio Emilia; University of Catania; University of Florence; CNR.</p>
	<p>5. Research Program of the University of Messina Financial Year 2008-2009 Prot. ORME09SB5H</p> <p>Title: Chirality in supramolecular systems of porphyrins</p> <p>Role: Project participant</p>

	<p>6. Research Project of National Interest (PRIN 2006). MIUR D. D. o. 2932/Ric, 8/12/2006 Title: Cromophores in organic and hybrid nanostructures: supramolecular control of photonic properties Role: Project participant National Coordinator Prof. Angela Agostiano (University of Bari). Other participating units: University of Messina; University of Salento; University of Catania.</p>
	<p>7. Research Project by agreement between CNR and CSGI Title: FUSINT Role: Project participant</p>
	<p>8. Research Program of the University university of Messina 2005 Prot. ORME053887 Title: Mechanistic Studies on Platinum (II) Complexes Finalized to the activation of the C-H Bond and to the synthesis of new complexes with extended aromaticity Role: Project Participant</p>
	<p>9. Research Program of the University of Messina 2003 Title: Mechanistic and structural studies on organometallic Platinum (II) complexes and porphyrins as a molecular building block for the synthesis of supramolecular systems Role: Project Participant</p>
	<p>10. University Research Program University of Messina Financial Year 2001 Title: Supramolecular systems containing porphyrins and organometallic Platinum (II) complexes Role: Project Participant</p>
VISITING RESEARCHER	
	<p>1. 22-09-2008 - 12-10-2008 University of Nijmegen, The Netherland. Research project "Synthesis and characterization of dye sensitizers for solar cells application".</p>
	<p>2. 01/02/2001 - 31/07/2001 University of Nijmegen, The Netherland. Research project "Synthesis characterization and supramolecular assembling of polynuclear Platinum(II) porphyrin complexes".</p>
INSTITUTIONAL ACTIVITIES	
	<p>1. 26-02-2010 to date member of the Collegium of Doctorate (PhD equivalent) in Chemical Sciences, University of Messina.</p>
	<p>2. CNR-ISMN representative for the evaluation panels of the CNR Institutes (C1, Chemical Science) 30/09/2009 with the contribution "Synthesis, characterization and supramolecular assembling of porphyrin complexes"</p>
	<p>3. 23/05/2006 - 01/01/2008 Representative of Research Fellows in the Department of Inorganic, Analytical and Physical Chemistry, University of Messina.</p>
SCIENTIFIC SUPERVISOR	
	<p>1. Research fellow (assegno di ricerca) supervisor (3 years) Topic: " Design of chiral multichromophoric molecular systems obtained by covalent and/or supramolecular approach", within the Project "Quantum coherent drive of energy transfer along helical structures by polarized light QUENTRHEL ERC- StG-278560" 15/01/2016 - 15/01/2019</p>
	<p>2. Research fellow supervisor for 2 grants (1 year each) within the project "Nanomaterials and Nanotechnologies for sustainable development and cultural heritage" (CUP: G78B14000 100006)"</p>

	Topic: "Synthesis and spectroscopic characterization of supramolecular chromophoric systems capable of promoting efficient resonant energy transfers (RET)"
	3. Structure name: University of Messina Activity: Supervisor or co-supervisor of bachelor's and/or master's degree theses in Chemistry, master's degree in Chemistry and Pharmaceutical Technologies and PhD thesis in Chemical Sciences
TEACHING AND SEMINAR ACTIVITIES	
	<ol style="list-style-type: none"> 1. General and Inorganic Chemistry (4 CFU) for Science, technology and safety of animal production L-38, Department of Medicine Veterinary, University of Messina. A.A. 2021/2022; 2022/2023 2. General and Inorganic Chemistry (4 CFU) for Agricultural sciences and technologies for the ecological transition L-25, Department of Medicine Veterinary, University of Messina. A.A. 2022/2023 3. General and Inorganic Chemistry (4 CFU) for Medicine Veterinary LM-42, Department of Medicine Veterinary, University of Messina. A.A. 2015/2016 4. "General Chemistry with Laboratory Mod. A (4 CFU) for Industrial Chemistry', Department of Chemical Science, University of Messina. A.A. 2007/2008
	<ol style="list-style-type: none"> 5. Teaching in II level Master "Technologist expert in the development of enabling nanotechnologies for drug-delivery" on Project PON 02-00355-2964193 Distretto Tecnologico Sicilia Micro e Nano Sistemi, Catania Topic: Methodologies of chemical-physical preparation of metal-based drug-delivery systems 01/08/2014 – 15/09/2014 6. Teaching in Training Project "Nanomaterials and nanotechnologies for sustainable development and cultural heritage" Public Notice n. 1/2012 of 26 Jan. 2012 P.O. Sicily 2007 – 2013 CUP: G78B14000100006, CNR-ISMN, Palermo Topic: Supramolecular chemistry: preparation of nanostructures by self-assembly of molecular species 30/10/2014 – 30/10/2015
	<ol style="list-style-type: none"> 7. Professor assistant (esercitatore) in General and Inorganic Chemistry, Faculty of Sciences MM. FF. NN., University of Messina. A.A. 2007/2008 8. Professor assistant (esercitatore) in General and Inorganic Chemistry, Faculty of Sciences MM. FF. NN., University of Messina. A.A. 2005/2006 9. Professor assistant (esercitatore) in General and Inorganic Chemistry, Faculty of Sciences MM. FF. NN., University of Messina. A.A. 2004/2005
	10. Tutor of General and Inorganic Chemistry, Faculty of Engineering, University of Messina. A.A. 2006/2007
	11. Seminar activity in "Notes of Physics" CNR-IPCF, Messina. Topic: Organized supramolecular structures of porphyrins: structural and kinetic investigations
ORGANIZATION OF NATIONAL AND INTERNATIONAL SCIENTIFIC CONGRESSES OR EVENTS	
	<p>Role: Member of the Organizing Committee Event: XX International Cyclodextrine Symposium (ICS 20) Event Type: International Congress Location: Giardini Naxos, Messina Date: 13-17 June 2022 Information available on the event website http://www.ismn.cnr.it/ics20</p>

	<p>Role: Member of the Organizing Committee Location: Mini-Symposium: From Chemistry to Biochemistry from Synthetic to Supramolecular Chemistry Event Type: International Symposium Location: Messina Date: 15 November 2019</p>
	<p>Role: Vice President of the Organizing Committee Event: XVI Workshop on PharmacoBiometallics (BioMet 16) Event Type: National Congress Location: Messina Date: 28-10-2016 - 29-10-2016 Information available on the event website www.ismn.cnr.it/BioMet_16/</p>
	<p>Role: Vice President of the Organizing Committee Event: XII National Congress of Supramolecular Chemistry (Supramol 2015) Event Type: National Congress Location: Giardini Naxos (ME) Date: 27-09-2015 - 30-09-2015 Information available on the event website www.ismn.cnr.it/supramol2015/</p>
	<p>Role: Member of the organizing committee Event: 4th Italian National Conference CD.TE. C: Event Type: National Congress Location: Giardini Naxos (ME) Date: 09-05-2013 - 11-05-2013</p>
	<p>Role: Member of the organizing committee Event: Second International Summer School on Cyclodextrins Type of event: International School Location: Giardini Naxos (ME) Date: 08-05-2013 - 09-05-2013</p>
SCIENTIFIC AWARDS	
	<ol style="list-style-type: none"> 1. ASN 2021-2023 full Professor (I Fascia) 03/B1 – Fundamentals of chemical sciences and inorganic systems from 01/02/2022 to 01/02/20 2. ASN 2016 full professor (I fascia) 03/A2 – Models and methodologies for chemical sciences From 05/04/2018 to 05/04/2027 3. ASN 2016 full professor (I fascia) 03/B1 – Fundamentals of chemical sciences and inorganic systems from 12/04/2017 to 12/04/2026 4. ASN 2016 full professor (I fascia) 03/B2 – Chemical foundations of technologies from 28/03/2017 to 28/03/2026 5. ASN 2016 associate professor (II fascia) 03/A2 – Models and methodologies for chemical sciences from 10/04/2017 to 10/04/2026 6. ASN 2016 associate professor (II fascia) 03/B1 – Fundamentals of chemical sciences and inorganic systems from 12/04/2017 to 12/04/2026 7. ASN 2016 associate professor (II fascia) 03/B2 – Chemical foundations of technologies from 25/10/2018 to 25/10/2027 8. ASN 2012 associate professor (II fascia) 03/B2 – Chemical foundations of technologies

	from 12-05-2004 to date Cultore della materia S.S.D. CHIM/03 (General and inorganic chemistry). Institution: University of Messina
	Training Call 2010 (Quota A). Assigning institution: National Research Council
	Zagami, R.; Romeo, A.; Castriciano, M. A.; Monsù Scolaro, L., Inverse Kinetic and Equilibrium Isotope Effects on Self-Assembly and Supramolecular Chirality of Porphyrin J-Aggregates. Chem.-Eur. J. 2017, 23, 70-74. Selected as HOT PAPER
	Invited Speaker 11th international conference on porphyrins and phthalocyanines (ICPP-11), Buffalo, USA. 3 - 10 July 2021
	Invited Speaker Symposium Self-Assembled Porphyrin and Phthalocyanine Nanostructures and Biomorphs. M. A. Castriciano, N. Micali, L. Monsù Scolaro, A. Romeo, V. Villari "Scaling Chirality in nanosized porphyrin J-aggregates" in Sixth international conference on porphyrins and phthalocyanines (ICPP-6), Albuquerque, New Mexico. 4 - 9 July 2010
	Highlights 2008-09 CNR Assigning institution: National Research Council Structured surfaces obtained with molecular aggregation, authors R. van Hameren; A.M. van Buul; M. A. Castriciano ; V. Villari; N. Micali; Fr. Schon; S. Speller; The .M. Schoolboy; A. E. Rowan; J. A. A. W. Elemans; R. J.M. Nolte
	Short Term Mobility - 2008 Assigning institution: National Research Council
	Start Cup Competition 2007/2008 Awarding institution: University of Messina Competition between business ideas generated by university research. Business idea title: Micromatoptics "Nano and Microparticles of materials for optical applications"
	Member of the winning team of the project S.T.R.E.T.T.O. 2007/2008 Awarding institution: University of Messina Selection of business ideas by subjects belonging to the Universities of Reggio Calabria and Messina. S.T.R.E.T.T.O. Project – system for the territorial research and the technological transfer
	Student Award Winner ICPP-2 Awarding institution: International Society of Porphyrins and Phthalocyanines Prize awarded at the II International Conference on Porphyrins and Phthalocyanines with publication of research results in J. Porphyrins Phthalocyanines 2002; 6: 431-438.
EDITOR and REVIEWER ACTIVITY	
	GUEST EDITOR for Special Issue " Advances in the Chemistry of Porphyrins and Related Macrocycles 2.0 " in International Journal of Molecular Sciences (IJMS, ISSN 1422-0067; Impact Factor 5.924) https://www.mdpi.com/journal/ijms/special_issues/Porphyrins_Macrocycles2
	GUEST EDITOR for Special Issue "Functional Nanostructures for Sensors, Optoelectronic Devices and Drug Delivery" of Nanomaterials (ISSN 2079-4991; I.F. 5.076). https://www.mdpi.com/journal/nanomaterials/special_issues/func_nano_sens_opt_devic
	GUEST EDITOR for Special Issue " Advances in the Chemistry of Porphyrins and Related Macrocycles " of International Journal of Molecular Sciences

	(IJMS, ISSN 1422-0067; Impact Factor 5.924). https://www.mdpi.com/journal/ijms/special_issues/Porphyrins_Macrocycles
	Topical Advisory Panel Member of Nanomaterials (ISSN 2079-4991; I.F. 5.076)
	- Editorial Board Member of Liquids (ISSN: 2673-8015)
	Reviewer for peer-review international scientific journals: <ul style="list-style-type: none"> - Advanced Materials - Biomacromolecules - Chemical Science - Chemistry an European Journal - Colloid and Polymer Science - European Journal of Medicinal Chemistry - International Journal of Molecular Sciences - International Journal of Hydrogen Energy - Journal of Material Chemistry C - Journal of the American Chemical Society - Journal of Photochemistry and Photobiology A: Chemistry - Langmuir - Materials for Renewable and Sustainable Energy - Nanomaterials - Nanoscale - New Journal of Chemistry - RSC Advances - Scientific Reports - Small - Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, - The Journal of Physical Chemistry - The Journal of Physical Chemistry C
MEMBER OF PROJECT EVALUATION COMMITTEE	<ul style="list-style-type: none"> - PRIN 2017 - SIR 2014 - FIRB 2013 - PRIN 2013 - Piscopia Fellowship Programme 2013
MEMBERSHIP	<ol style="list-style-type: none"> 1. International Society of Porphyrins and Phthalocyanines (SPP) 2. National Interuniversity Consortium of Materials Science and Technology (INSTM) 3. Società Chimica Italiana (SCI) Divisione di Chimica Inorganica 4. American Chemical Society
	<p>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.</p> <p>Messina, 1/11/2023</p> <p></p> <hr style="width: 20%; margin-left: 0;"/> <p>Maria, Angela Castriciano</p>