

CURRICULUM VITAE Maria Michela Dell'Anna

PERSONAL INFORMATION	Maria Michela Dell'Anna
	 Politecnico di Bari DICATECh Via Orabona, 4 I-70125, Bari (BA) Italy
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	 http://dicatechpoliba.it/dicatech-scheda-personale?idp=190
	Sex Female Date of birth 05/12/1969 Nationality Italian
	h-index 27 Total citations: 1770 (source Scopus)

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1 st level Technologist/First Researcher and 2 nd level Technologist
<input type="checkbox"/> Mid-Management Level	X Associate professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee/worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level/Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level/Technical collaborator

WORK EXPERIENCE	
2018 - present	POSITION: Associate Professor in “Chemistry and Chemical foundations of technologies” at Politecnico di Bari
	INSTITUTION ADDRESS: DICATECh, Politecnico di Bari, via Orabona 4 Bari, Italy
	<ul style="list-style-type: none"> • Research Topics: Catalysis; Environmental chemistry; Green chemistry; waste biomass valorization; microplastic pollution
	Research: academic research
2000 - 2018	POSITION HELD Assistant Professor in “Chemistry and chemical foundations of technologies” at Politecnico di Bari
	INSTITUTION ADDRESS: DICATECh, Politecnico di Bari, via Orabona 4 Bari, Italy
	<ul style="list-style-type: none"> • Research Topics: Catalysis; Environmental chemistry; Green chemistry; Platinum based complexes with anticancer features
	Research: academic research
1999 - 2000	POSITION HELD: Teacher in Chemistry at High School
	INSTITUTION ADDRESS: Technical High School in Palese (Bari, Italy)
	<ul style="list-style-type: none"> • Research Topics: Education

EDUCATION AND TRAINING	
1999	PhD in “Chemistry of Materials for Special Uses”
	University of University of Reggio Calabria, Italy
	<ul style="list-style-type: none"> • Topics: Synthesis of supported complexes based on VIII group metals and their use in hybrid catalysis
1995	M. Sc. in Chemistry 110/110 cum laude
	University of Bari (Italy)
	<ul style="list-style-type: none"> • Topics: catalysis

PROJECTS (last five years)	
	With leadership roles
01/2022 – 01/2025	PON project, code DOT130UZWT CUP D9F521002350006, "Research and Innovation" 2014-2020, Axis IV "Education and research for recovery" with reference to Action IV.5 "Doctorates on green issues ", Ministerial Decree 1061/2021
07/2022 – 11/2023	Scientific Coordinator of the "BioCEL - Biomass for synthesis of nano CELLulosa" project (practical code f0e2f4fd), admitted for funding with a score of 95/100, in response to the RIPARTI call of the Puglia Region (Resolution No. 52 of 04/04 / 2022 of the Register of Determinations
06/2021 – 12/2022	Scientific Head of the Research Unit 2 (UO2) of the study of "Environmental Monitoring for the Assessment of the Environmental Impacts of the Interventions" provided for in the ALMONIT MTC Project-European Cooperation Program INTERREG IPA CBC Italy-Albania-Montenegro 2014/2020"
10/2018– 10/2019	Scientific Head of the collaboration agreement (October 2018-October 2019) between the Polytechnic of Bari and the Istituto Poligrafico e Zecca dello Stato S.p.A. (IPZS), for the development of a research project aimed at the traceability of agro-food products (200,000 euros).
10/2022 – 04/2023	Scientific coordinator of the project "Turning waste cooking oil into bio-fuel: optimization with functional additives" funded by Poliba as fellowship for Ukrainian visiting professors
	Project reviewer
06/2023	Interdisciplinary approaches to oncogenic processes and therapeutic perspectives: Contributions of physics, chemistry and engineering sciences to oncology (INSERM, France)

COMMUNITY SERVICE (last five years)	
TPC member	XLVII congress Nazionale di Chimica Inorganica 9-12 settembre 2019 NMR Day Bari June 2023
Regular Reviewer	Referee of several journals of the following publishers: American Chemical Society (ACS Applied Materials & Interfaces, ACS Catalysis), Elsevier (Applied Catalysis A, Journal of Molecular Catalysis A, Polyhedron, Tetrahedron, Tetrahedron Letters, Journal of Organometallic Chemistry, Coordination Chemistry Reviews, Catalysis Communications, Catalysis Letters, Comptes Rendus Chimie, International Journal of Hydrogen Energy, Applied Surface Science), Royal Society of Chemistry (Green Chemistry, RSC Advances, Catalysis Science & Technology), Springer (Reaction Kinetics , Mechanisms and Catalysis), Wiley (Advanced Synthesis & Catalysis, Applied Organometallic Chemistry, European Journal of Inorganic Chemistry, European Journal of Organic Chemistry).

EDITORIAL ACTIVITY (last five years)	
2021-present	Member of the Editorial Board of "Catalysts" mdpi (ISSN: 2073-4344) (https://www.mdpi.com/journal/catalysts/editors#editorialboard)
2018-2020	Journal Editor of the international journal "Catalysis for Sustainable Energy" (ISSN: 2084-6819), of De Gruyter circuit, Warsaw, Poland (https://www.degruyter.com/view/j/cse, last access January 25, 2018) from January 2017 to December 2020

PHD SUPERVISION (last five years)	
2018-present	Supervisor of a PhD student in “RISK AND ENVIRONMENTAL, TERRITORIAL AND BUILDING DEVELOPMENT” PhD course (XXXII Cycle); thesis entitled "Chemical reactions catalyzed by metal nanoparticles under environmentally sustainable conditions".
2018-present	Supervisor of a PhD student in RISK AND ENVIRONMENTAL, TERRITORIAL AND BUILDING DEVELOPMENT (XXXVII Cycle). Tentative thesis title: “Biomass conversion into biofuels”
2018-present	Supervisor of a PhD student in RISK AND ENVIRONMENTAL, TERRITORIAL AND BUILDING DEVELOPMENT (XXXVII Cycle). Tentative thesis titles: “Waste valorization for catalytic purposes”
2018-present	Supervisor of a PhD student in RISK AND ENVIRONMENTAL, TERRITORIAL AND BUILDING DEVELOPMENT (XXXIX Cycle). Tentative thesis titles: “Waste cooking oil conversion into bio-based compounds”
2018-present	Co-Supervisor of a PhD student in SUSTAINABLE LAND MANAGEMENT (XXXVII Cycle). Tentative thesis titles: “Sustainability analysis of the effects of pesticides on innovative bioplastics for agricultural use”

TEACHING (last five years)	
2017-2018	<p>A.A. 2017/2018</p> <p>Professor of two Chemistry Courses (6 credits + 6 credits) in the framework of the first common year for all the Engineering Degree Courses of Polytechnic University of Bari</p>
2018-2019	<p>A.A. 2018/2019</p> <p>Professor of the Chemistry Course (6 credits) at Taranto venue in the framework of the first common year for all the Engineering Degree Courses of Polytechnic of Bari and Professor of Environmental Chemistry (6 credits) for the Magistral Course in Environmental Engineering (Taranto venue)</p>
2019-2020	<ul style="list-style-type: none"> • A.A. 2019/2020 <p>Professor of two Chemistry Courses (6 credits + 6 credits) in the framework of the first common year for all the Engineering Degree Courses of Polytechnic University of Bari</p>
2020-2021	<ul style="list-style-type: none"> • A.A. 2020/2021 <p>Professor of two Chemistry Courses (6 credits + 6 credits) in the framework of the first common year for all the Engineering Degree Courses of Polytechnic University of Bari</p>
2021-2022	<ul style="list-style-type: none"> • A.A. 2021/2022 <p>Professor of two Chemistry Courses (6 credits + 6 credits) in the framework of the first common year for all the Engineering Degree Courses of Polytechnic University of Bari</p>
2022-2023	<ul style="list-style-type: none"> • A.A. 2022/2023 <p>Professor of two Chemistry Courses (6 credits + 6 credits) in the framework of the first common year for all the Engineering Degree Courses of Polytechnic University of Bari</p>
2023-2024	<ul style="list-style-type: none"> • A.A. 2023/2024 <p>Professor of two Chemistry Courses (6 credits + 6 credits) in the framework of the first common year for all the Engineering Degree Courses of Polytechnic University of Bari</p>

INSTITUTIONAL RESPONSABILITIES (last five years)	
2021-present	Vice-president of the Single Guarantee Committee (CUG) of Polytechnic of Bari
2021-present	Member (representative of associate professors) of the DICATECh Department Council of Polytechnic of Bari
2020-present	Member of the DICATECh VQR working group

INVITED TALKS (last five years)	
2019	Invited Keynote Speaker at the "3rd International Conference on Materials Science and Materials Chemistry", Vienna 14-15 October 2019
2020	Invited Keynote Speaker at the "2020 International 2020 International Conference on Material Chemistry and Composite Materials (MCCM 2020) 2020" International Conference on Catalysis and Polymer Chemistry (CCPC 2020)", Guilin, China, 13-15 November 2020
2023	Keynote/Invited Speaker in the International Scientific and Practical Conference "Modern trends in the development of chemical technology and engineering in the food and light industry", dedicated to the 80th anniversary of Academician of NAS RK Kulazhanov Kuralbek Sadibayevich.

FELLOWSHIPS AND AWARDS	
2018	Award recipient (additional remuneration), paid by Polytechnic University of Bari for the year 2017, according to academic and scientific merit criteria, pursuant to art. 9 of the law 240/210.
2023	Award recipient (additional remuneration), paid by Polytechnic University of Bari for the year 2022, according to academic and scientific merit criteria, pursuant to art. 9 of the law 240/210.
2024	Award recipient (additional remuneration), paid by Polytechnic University of Bari for the year 2023, according to academic and scientific merit criteria, pursuant to art. 9 of the law 240/210

ADDITIONALI INFORMATION	
2018-2023	ASN: She meets the requirements of a commissioner
2019-2024	ASN: She meets the requirements of a commissioner
present	Scopus database: H-index = 27; documents = 75; number of citations = 1770

PUBBLICATIONS

<p>Publications best and most relevant in the last 10 years (see IRIS Poliba for all publications in the last 10 years)</p>	<p>The Use of Biocomponents and Additives to Improve the Quality and Safety of Diesel Fuels. Dell'Anna, M.M., Tkachuk, V., Rechun, O., Golodyuk, G. <i>Studies in Systems, Decision and Control</i>, 2024, 510, pp. 197–216</p> <p>Synthesis of a light-responsive platinum curcumin complex, chemical and biological investigations and delivery to tumor cells by means of polymeric nanoparticles. Vergaro, V., Dell'Anna, M.M., Shahsavari, H.R., Baldassarre, F., Migoni, D., Mastroilli, P., Fanizzi, F.P., Ciccarella, G. <i>Nanoscale Advances</i>, 2023, 5(19), pp. 5340–5351</p> <p>Synthesis by Sol–Gel Route of Organic–Inorganic Hybrid Material: Chemical Characterization and In Vitro Release Study. Petrelli, V., Dell'Anna, M.M., Mastroilli, P., Viola, V., Catauro, M., D'Angelo, A. <i>Applied Sciences (Switzerland)</i>, 2023, 13(14), 8410</p> <p>N-doped resin supported cobalt nanoparticles for the catalytic reduction of nitroarenes to corresponding anilines in aqueous medium Petrelli, V., Romanazzi, G., Mortalò, C., Leonelli, C., Zapparoli, M., De Giglio, E., Calvano, C. D., Dell'Anna, M.M., Mastroilli, P. <i>Molecular Catalysis</i>, 2023, 544, 113050</p> <p>Microplastic pollution in Italian South Adriatic Harbor Areas, V. Petrelli, A. Ferraro, U. Fratino, M. Mali, D. Spasiano, M.M. Dell'Anna, 2023 IEEE International Workshop on Metrology for the Sea; Learning to Measure Sea Health Parameters, MetroSea 2023 - Proceedings, 269-273 (2023).</p> <p>Waste Based Solutions for Preventing Water Pollution by Nitroarenes, M. S. Leone, P. Mastroilli, M. Mali, C. Porfido, R. Terzano, M.M. Dell'Anna, 2023 IEEE International Workshop on Metrology for the Sea; Learning to Measure Sea Health Parameters, MetroSea 2023 - Proceedings, 474-477 (2023)</p> <p>Improved identification of pollution source attribution by using PAH ratios combined with multivariate statistics, M. Mali, R. Ragone, M.M. Dell'Anna, G. Romanazzi, L. Damiani, P. Mastroilli, <i>Scientific Reports</i>, article number 19298 (2022)</p> <p>Synthesis by Sol-Gel Route, Chemical, and Biological Characterization of Hybrid Material Composed by Fe(II)C and poly(ϵ-caprolactone). Catauro, M., Blanco, I., Fiorentino, M., D'Angelo, A., Dell'Anna, M.M., Mastroilli, P. <i>Macromolecular Symposia</i>, 2022, 404(1), 2100263</p> <p>Partial Hydrogenation of Soybean and Waste Cooking Oil Biodiesel over Recyclable-Polymer-Supported Pd and Ni Nanoparticles Fiore, A.M., Romanazzi, G., Leonelli, C., Mastroilli, P., Dell'anna, M.M. <i>Catalysts</i>, 2022, 12(5), 506</p>
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Microwave-Assisted Treatment of Waste Wood Biomass with Deep Eutectic Solvents. Colella, M., Romanazzi, G., Petrelli, V., Baldassarre, F., Ciccarella, G., Catauro, M., Mastrorilli, P., Dell'Anna, M.M.

Macromolecular Symposia, 2022, 404(1), 2100284

Synthesis and Use in Catalysis of Hematite Nanoparticles Obtained from a Polymer Supported Fe(III) Complex

Fiore, A.M., Varvaro, G., Agostinelli, E., Fiore, S., Dell'Anna, M.M., Mastrorilli, P.

European Journal of Inorganic Chemistry, 2022, 2022(7), e202100943

Low-Intensity Light-Responsive Anticancer Activity of Platinum(II) Complex Nanocolloids on 2D and 3D in Vitro Cancer Cell Model

Vergaro, V., Baldassarre, F., De Castro, F., Dell'Anna, M.M., Fanizzi, F.P., Ciccarella, G.

Bioinorganic Chemistry and Applications, 2022, 2022, 9571217

Rhodium nanoparticles inside well-defined unimolecular amphiphilic polymeric nanoreactors: Synthesis and biphasic hydrogenation catalysis

Wang, H., Fiore, A.M., Fliedel, C., Dell'Anna, M.M., Mastrorilli, P., Poli, R.

Nanoscale Advances, 2021, 3(9), pp. 2554–2566

Metal-based heterogeneous catalysts for one-pot synthesis of secondary anilines from nitroarenes and aldehydes

Romanazzi, G., Petrelli, V., Fiore, A.M., Mastrorilli, P., Dell'Anna, M.M.

Molecules, 2021, 26(4), 1120

Assessing environmental impacts in using waste steel slags as construction materials in a highly industrialized area M. M. Dell'Anna, G. Romanazzi, M. Positano, V. Specchio, P. Mastrorilli, G. Tomasicchio, L. Damiani, M. Mali, Aquatic Ecosystem Health and Management 23 (2020) 474–482, ISSN: 1463-4988, DOI: 10.1080/14634988.2020.1827820.

Multivariate analyses for investigating highly polluted marine ecosystem: The case study of Mar Piccolo (Taranto, South Italy), Mali M, Dell'Anna M.M., Mastrorilli P., Chiaia G., Romanazzi G., Damiani L. Aquatic Ecosystem Health and Management 23 (2020) 436 – 444, ISSN 1463-4988, DOI: 10.1080/14634988.2020.1807224

Long-term monitoring programs to assess environmental pressures on coastal area: Weighted indexes and statistical elaboration as handy tools for decision-makers. Mali, M., Ungaro, N., Cardellicchio, A., Dell'Anna, M. M., Romanazzi, G., Mastrorilli, P., Damiani, L. ECOLOGICAL INDICATORS, (2019). vol. 101, p. 838-850, ISSN: 1470-160X, doi: 10.1016/j.ecolind.2019.01.085

	<p>Influence of hydrodynamic features in the transport and fate of hazard contaminants within touristic ports. Case study: Torre a Mare (Italy) M. Mali, D. Malcangio, M. M. Dell'Anna, L. Damiani, P. Mastrorilli, Heliyon, Vol. 4, Issue 1, 2018, Page e00494 2018 DOI: 10.1016/j.heliyon.2017.e00494</p> <p>Enhancing the performance of hazard indexes in assessing hot spots of harbour areas by considering hydrodynamic parameters, M. Mali, F. De Serio, M. M. Dell'Anna, P. Mastrorilli, L. Damiani, M. Mossa</p> <p>Ecological Indicators, Vol 73, 2017, Pages 38-45 DOI: 10.1016/j.ecolind.2016.09.028</p> <p>Combining chemometric tools for assessing hazard sources and factors acting simultaneously in contaminated areas. Case study: "Mar Piccolo" Taranto (South Italy), M. Mali, M. M. Dell'Anna, M. Notarnicola, L. Damiani, P. Mastrorilli, Chemosphere, Vol 184, 2017, Pages 784-794</p> <p>DOI: 10.1016/j.chemosphere.2017.06.028 EID: 2-s2.0-85020913735</p> <p>Assessment and source identification of pollution risk for touristic ports: Heavy metals and polycyclic aromatic hydrocarbons in sediments of 4 marinas of the Apulia region (Italy), M. Mali, M. M. Dell'Anna, P. Mastrorilli, L. Damiani, A. F. Piccinni, Marine Pollution Bulletin, Vol 114, Issue 2, 2017, Pages 768-777, DOI: 10.1016/j.marpolbul.2016.10.063</p> <p>Identification of hot spots within harbour sediments through a new cumulative hazard index. Case study: Port of Bari, Italy, M. Mali, M. M. Dell'Anna, P. Mastrorilli, L. Damiani, N. Ungaro, A. Gredilla S. Fdez-Ortiz de Vallejuelo, Ecological Indicators 60 (2016) 548–556, DOI: 10.1016/j.ecolind.2015.07.024</p> <p>Are conventional statistical techniques exhaustive for defining metal background concentrations in harbour sediments? A case study: The Coastal Area of Bari (Southeast Italy), M. Mali, M. M. Dell'Anna, P. Mastrorilli, L. Damiani, N. Ungaro, C. Belviso, S. Fiore, Chemosphere 138 (2015) 708–717, DOI: 10.1016/j.chemosphere.2015.07.046</p>
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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.

Date and signature

The 20th of May 2024

(Maurizio Michele) Dell'Anna