

CURRICULUM VITAE



PERSONAL INFORMATION

Name	Francesca
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Nationality	Italy
Place and Date of birth	Rome, 05/09/1974

EDUCATION

From 2000 to 2003	PhD in Industrial Chemical Processes Faculty of Engineering Sapienza University of Rome
From 1992 to 1999	Master Degree with honor in Industrial Chemistry Faculty of Mathematical, Physical and Natural Sciences Sapienza University of Rome

WORK EXPERIENCE

From 2012 to now	Associate Professor of Theory of the Development of Chemical Processes Department of Chemistry Faculty of Mathematical, Physical and Natural Sciences Sapienza University of Rome
From 2004 to 2012	Assistant Professor of Theory of the Development of chemical Processes Department of Chemistry Faculty of Mathematical, Physical and Natural Sciences Sapienza University of Rome
From January to December 2003	Employer-coordinated freelance work (cococo) <i>in the project "Integrated treatments of manganese ores for the production of commercial standard products: development of innovative technologies with low environmental impact by using agro-industrial wastes" (FIRB 2001)</i> Department of Chemistry of Sapienza
From September to November 1999	Employer-coordinated freelance work (cococo) <i>in the project co-financed by MIUR and Carbochimica for the development of innovative depurative technologies using waste biomasses</i> Department of Chemistry of Sapienza

RESEARCH ACTIVITIES

Research sectors Development of innovative hydro- and biohydro-metallurgical processes in environmental and industrial applications:

- Treatment of metal-bearing wastewaters by biosorption using different biomasses (bacteria, microalgae, yeasts and agricultural wastes) and reactor configurations (batch and membrane systems);
- In situ treatment of ground waters polluted by heavy metals by biological permeable reactive barriers using sulphate reducing bacteria and biosorbents
- Treatment and valorization of technological wastes (such as end of life batteries, photovoltaic panels, catalysts, liquid crystal displays, cathodic ray tubes, fluorescent lamps, mine tailings, car fluff) for the recovery of secondary raw materials
- Synthesis and characterization of nanoparticles by microemulsion and electrodeposition
- Production of biofuels by microalgae cultivation

Scientific products 70 articles in international peer reviewed journals
3 chapters of books
3 European patents
51 papers in Proceedings of Congresses with ISBN

Bibliometric parameters H index= 23 (isi web of science)
Number of citation: 1818 (isi web of science)

Financed Research Projects

2014-2017 Responsible of Unit in the Project
PHOTOLIFE Process and automated pilot plant for simultaneous and integral recycling of different kinds of photovoltaic panels
cofunded by European Community's Seventh Framework Program (LIFE+)

2012-2016 Responsible of Unit in the project
Hydroweee Demo (Innovative Hydrometallurgical Processes to recover Metals from WEEE including lamps and batteries-Demonstration)
cofunded by European Community's Seventh Framework Program

2014-2015 Principal Investigator
Development of innovative composite biosorbents for the selective recovery and purification of lanthanum in the recycling process of exhausted NiMeH batteries
funded by Sapienza: **Awards** project

2014-2015 Responsible of Unit in the project
HYRPAM Process for recovery of Pd-Ag membranes for hydrogen
cofunded by Regione Lazio

2012-2014 Responsible of Unit in the project
Nanohydro (production of metal nanoparticles from RAEE valorization)
cofunded by Regione Lazio

2009-2012 Responsible of Unit in the project
Hydroweee (Innovative Hydrometallurgical Processes to recover Metals from WEEE including lamps and batteries)
cofunded by European Community's Seventh Framework Program

2011-2013 Principal Investigator in the project
Alge Energetiche (Design and construction of a pilot plant for the cultivation of

- 2009-2012 microalgae for biofuel production)
 cofunded by Ministero dell'Ambiente e della Tutela del Territorio e del Mare
 Principal Investigator in the project
Photorec (Development of a recycling process for end of life photovoltaic panels)
 cofunded by Regione Lazio
- 2011
 Principal Investigator in the project
 Cu nanoparticles production by electrodeposition for application in photovoltaic devices
 of II and III generation
 funded by Sapienza University
- 2010
 Principal Investigator in the project
 Development of innovative processes for the production of third generation biofuels
 funded by Sapienza University

ADDITIONAL INFORMATION

- 2008 Founding member of the university spin off Ecorecycling (an enterprise born for the technological transfer in the field of waste valorization)
- 2007 Member of the High Tech Recycling Interuniversity Research Centre (a research centre for the development of sustainable technologies for recycling and valorization of high-tech wastes resulting from urban, industrial, health and harbor activities).
- 2003 and 2000 European Science Foundation sponsorships for participating at the EuroConference on the Roles of Colloids and Particles in Water Technology (Italy) and Natural Waters and Water Technology (Portugal)
- 2002 Grant "Giovani Ricercatori" given by the Department of Chemistry of Sapienza University for the research activity about Decontamination of metal polluted solutions by olive pomace
- 2001 Master degree thesis awarded in the XIII National Prize of Federchimica (Federchimica per un futuro intelligente)