

DOMENICO ROSA

Industrial chemist

PROFESSIONAL PROFILE

PhD student motivated, helpful, accustomed to the context of the chemical laboratory and teamworking acquired during a first internship experience lasting 5 months for the achievement of the bachelor's degree in industrial chemistry and a second one lasting 1 year for the master's degree in industrial chemistry with specialization in "environment, resources, energy and safety".

SKILLS AND COMPETENCES

During my studies and my PhD experience, I was able to develop knowledge of industrial chemistry with particular attention and predisposition to metal chemistry and to the processes development aimed at recovery for environmental protection. I also gained knowledge and interest in analytical chemistry and food chemistry. I have a good attitude to teamwork and excellent interpersonal skills. I am able to use calculation programs such as Excel.

WORK AND PROFESSIONAL EXPERIENCES

PhD student, october 2020 -present

Sapienza university- Departement of chemical engineering of materials - Roma

The research deals with the experimental investigation of using innovative materials, such as zero-valent iron particles, metal oxides (Fe, Ti) at a nanometer scale, for the removal of trace pollutants in wastewater and in contaminated natural waters. The research is mainly focused on metals and metalloids, with particular reference to lead, nickel, hexavalent chromium, arsenic and antimony.

I am conducting further research aimed at the production of bio cement by enzymatic calcination of sands.

Rider, december 2017 -present

Deliveroo- Roma

I work as a rider for a food delivery company.

Realtor, september 2015 – march 2016

Tempocasa- Via Roberto Malatesta 84, Roma

I worked as a realtor dealing specifically with consultancy, property appraisals, customer management and property sales.

EDUCATION AND TRAINING

Master's degree in industrial chemistry october 2018 – october 2020

Sapienza university- Roma

Score: 110/110 with honors

I attended for one year an internship for the achievement of the master's degree in "environment, resources, energy and security" concerning the critical raw materials recovery, in particular cobalt and lithium, from powders electrodes of lithium-ion cells at the end of their life using deep eutectic solvents based on choline chloride and ethylene glycol.

During my studies I was able to develop knowledge in chemistry, in particular catalysis, analytical chemistry, fermentation chemistry, remediation of contaminated sites, food chemistry, and calculation programs such as Excel.

Bachelor's degree in industrial chemistry, october 2012- july 2018

Sapienza university- Roma

Score: 103/110

During my studies, I was able to develop basic knowledge in chemistry and I became familiar with the chemical laboratory by attending an internship lasting 5 months which involved the metals recovery from lithium-ion batteries at the end of their life by hydroleaching process with mineral acids.

I was also able to develop knowledge in organic chemistry, polymer chemistry, chemical processes and plants, petroleum chemistry and in calculation programs such as Kaleidagraph.

High school leaving qualification in scientific studies, september 2007- july 2012

Scientific institute "Galileo Galilei"- Potenza

OTHER INFORMATION

Driver license: B