

Caruso Maria

EDUCATION AND TRAINING

Università Alma Mater Studiorum (Bologna), Italy Equivalent to Master's degree in Industrial Chemistry (2019)

Final Mark 102/110

Università Alma Mater Studiorum (Bologna), Italy Equivalent to Bachelor's degree in chemistry and technologies for the environment and materials (2017)

Final Mark 101/110

WORK EXPERIENCE

01/2020

Professionalizing research grant holder

National Research Council of Italy- Institute of di Science and Technology for Ceramics(ISTEC- CNR) in Faenza (RA)

Project: Eco Friendly FLuidICS for Fluid Power (EFFLICS)

Tutor Dott. Federico Veronesi

Activities: Design and fabrication of nanostructured coating to enhance wetting by the fluids

02/2019- 09/2019

Master thesis

Department Development and management of industrial Chemical processes- University of Industrial Chemistry (Bologna)

Synthesis by electrospinning of catalytic membranes for the oxidation of 5-hydroxymethylfurfural

Activities: synthesis of metal nanoparticles, polymers electrospinning, catalytic tests, characterization with thermogravimetry (TGA), IR spectroscopy, atomic mass spectroscopy (ICP), electron scanning microscopy (SEM), HPLC analysis, X-ray diffraction, DLS analysis, surface area measurements BET.

04/2017- 07/2017

Bachelor Thesis

Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA) (Faenza)

Ceramic coating based on SiC on graphite with pack cementation technique

Activities: pack cementation technique, analysis and characterization for ceramic surfaces.

Characterization with electron scanning microscopy (SEM), thermogravimetry (TGA), X-ray diffraction.

SOFTWARE

Office suite

LANGUAGES

B1 English (2017)

SOFT SKILLS

Organization
Team work
Creativity
Communication
Problem Solving

