Prot. n. 0005786 del 18/01/2024 - [UOR: DIP-106 - Classif. III/13] Francesco Pio Abramo

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ESPERIENZA LAVORATIVA

05/2020 - 10/2020

SCHOLARSHIP EUROPEAN RESEARCH INSTITUTE OF CATALYSIS A.I.S.B.L

01/2021 - 12/2023

EDUCATIONAL TUTOR UNIVERSITY OF MESSINA

Supplementary teaching activities for students of the bachelor's and master's degree programs in chemistry. I also taught high school students in preparation for the International Chemistry Olympiads. The lessons consisted of both in-depth theory and written exercises. In addition, I was involved in coordinating post-high school orientation activities, including setting up teaching laboratories.

ISTRUZIONE E FORMAZIONE

11/2020 - 01/2024 Italia

PH.D IN INDUSTRIAL CHEMISTRY University of Messina

Ph.D in Advanced Catalytic Processes for using Renewable Energy Sources (ACCESS). My research is focused on the conversion of CO_2 into other value-added chemicals using innovative processes that utilize renewable energy (Power to X). Specifically, I have been involved in the improvement and implementation of an electrocatalyst for the production of organic acids (C2). In addition, my work has involved plasma and plasma catalysis for CO_2 splitting using a double dielectric and porous DBD reactor.

10/2022 - 04/2023 Eindhoven, Paesi Bassi

VISITING PH.D. Eindhoven University of Technology

During my mobility period at Eindhoven University of Technology, I deepened my knowledge of plasma technologies. I was also involved in the development of a method for the deposition of catalytic thin films on porous electrodes.

This experience also allowed me to greatly improve my English, especially spoken English. I interacted with many new people and different cultures, which enriched my personal experience immeasurably.

2018 - 2020 Italia

MASTER DEGREE IN CHEMISTRY University of Messina

The focus of the course was on industrial and environmental chemistry. Therefore, knowledge of the most important industrial chemical processes as well as catalysis and chemical-physical characterization techniques is provided.

Voto finale 110/110 cum laude

2018 - 2020 Italia

BACHELOR DEGREE IN CHEMISTRY University of Messina

I did my curricular internship at CNR ITAE 'Nicola Giordano', where I worked on the synthesis of bimetallic electrocatalysts for a direct methanol fuel cell.

Voto finale 110/110 cum laude

Italia

HIGH SCHOOL DIPLOMA Liceo scientifico Galileo Galilei

COMPETENZE LINGUISTICHE

Lingua madre: ITALIAN

	COMPRENSIONE		ESPRESSIONE ORALE		SCRITTURA
	Ascolto	Lettura	Produzione orale Interazione orale		
ENGLISH	B2	B2	B2	B2	B2

Livelli: A1 e A2: Livello elementare B1 e B2: Livello intermedio C1 e C2: Livello avanzato

ULTERIORI INFORMAZIONI

PUBBLICAZIONI

g-C3N4 decorated TiO2 nanotube ordered thin films as cathodic electrodes for the selective reduction of oxalic acid

- 2021

DOI:10.3303/CET2184007

Electrocatalytic production of glycolic acid via oxalic acid reduction on titania debris supported on a TiO2 nanotube array

- 2021

doi: https://doi.org/10.1016/j.jechem.2021.12.034

Nanostructure-performance relationships in titania-only electrodes for the selective electrocatalytic hydrogenation of oxalic acid

- 2024

doi: 10.1016/j.jcat.2023.115277

PATENTE DI GUIDA

Patente di guida: AM Patente di guida: B

CONFERENZE E SEMINARI

2022 - Leamington Spa, UK

UCRA2 The conference encompassed a number of new developments that are emerging across different research areas in which interdisciplinary collaborations between the classical catalysis science, chemical and materials engineering, physics, electrical engineering and energy technology play crucial role.

2023

Europacat2023 15th biannual European Congress on Catalysis, EuropaCat2023, of the European Federation of Catalysis Societies (EFCATS) in Prague on behalf on the Catalysis Societies of the Czech Republic, Hungary, Poland and Slovakia.

Oral communication entitled 'Insight the Ti nanotubes array nanostructure and its role on the electro reduction of CO₂-derived oxalic acid'

ONORIFICENZE E RICONOSCIMENTI

12/2020

Winner of the 'Giorgio Squinzi' award for master's thesis – FEDERCHIMICA Winner of the "Giorgio Squinzi" Prize for the Master's Thesis.

Awarded by FEDERCHIMICA - Italian Federation of Chemical Industries.

Link https://www.federchimica.it/la-chimica-per/scuola/università/premio-giorgio-squinzi-per-tesi-di-laurea-magistrali