



ALLA MAGNIFICA RETTRICE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO

COD. ID: 7044

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il Dipartimento di agricultural and veterinary science.

Responsabile scientifico: Prof. Tedesco Doriana

Mahboubeh Gharbalifard

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Cognome	Gharbalifard
Nome	Mahboubeh

OCCUPAZIONE ATTUALE

Incarico	Struttura

ISTRUZIONE E FORMAZIONE

Titolo	Corso di studi	Università	anno conseguimento titolo
Dottorato Di Ricerca			
Diploma Di Specializzazione Medica			
Laurea Magistrale o equivalente	Industrial Chemistry Analytical Chemistry	Università degli Studi di Milano Shahreza University	2024 2017
Master			
Altro			

ISCRIZIONE AD ORDINI PROFESSIONALI

Data iscrizione	Ordine	Città



LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
English	Fluent
Italian	A2
Persian	Native

PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
2021	Need and Merit-based scholarship in Italy
2022	Need and Merit-based scholarship in Italy

ATTIVITÀ DI FORMAZIONE O DI RICERCA

descrizione dell'attività

Throughout my academic and professional career, I have developed a comprehensive understanding of the chemical parameters essential for biomass characterization. My Master's thesis at the Università degli Studi di Milano focused on development of Co_3O_4 -based materials for environmental remediation. This project required an in-depth analysis of various chemical parameters to evaluate the efficiency of photocatalytic processes. Additionally, my coursework and research in Analytical Chemistry at Shahreza University further strengthened my expertise in this area, particularly in the investigation of the photocatalytic properties of clinoptilolite nanoparticles containing PbS semiconductor for the photodegradation of pharmaceuticals in aqueous solutions.

I have substantial experience in analytical characterization using GC-MS and HPLC instruments. During my internship and subsequent role as a Laboratory Assistant at the Università degli Studi di Milano, I regularly utilized these instruments to analyze complex samples. My proficiency includes sample preparation, method development, and data interpretation. Specifically, I employed HPLC for the separation and quantification of organic pollutants in wastewater samples and GC-MS for the detailed analysis of volatile organic compounds. These skills were further refined during my work on photocatalytic degradation studies, where precise analytical techniques were crucial for evaluating the efficiency of photocatalysts.

My research activities have consistently focused on environmental chemistry and pollutant degradation. At the Università degli Studi di Milano, I was involved in several projects aimed at developing and characterizing photocatalytic materials for environmental applications. This included the synthesis and evaluation of novel photocatalysts, as well as their application in the degradation of pharmaceuticals and other organic pollutants in water. My work frequently required the use of advanced analytical techniques, including XRD, IR, XPS, BET, SEM, and spectrophotometry, to characterize the physical and chemical properties of materials and assess their performance.

Additionally, I have experience conducting life cycle assessments (LCA) for biofuel production. One of my key projects was titled "A Life Cycle Assessment of Methanol Production from Sugarcane Bagasse," which analyzed the environmental impacts of methanol production plant utilizing the biomass-to-liquid (BTL) route. This study evaluated the energy life cycle balance and net environmental impacts, highlighting the feasibility of substituting fossil-derived methanol with bio-based methanol. The findings demonstrated significant differences in environmental performance among existing biofuel systems, influenced by factors such as farming practices and biomass conversion technology. This project equipped me with expertise in applying LCA methodologies and interpreting results to inform sustainable practices in biofuel production.



ATTIVITÀ PROGETTUALE

Anno	Progetto
2024	Development of Co_3O_4 -based materials for environmental remediation
2017	Investigation of the photocatalytic property of clinoptilolite nanoparticles containing PbS semiconductor in the photodegradation of ciprofloxacin aqueous solution: The experimental design by RSM

TITOLARITÀ DI BREVETTI

Brevetto

CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede

PUBBLICAZIONI

Articoli su riviste
Synergistic photocatalytic activity of PbS/clinoptilolite in ciprofloxacin photodegradation: An experimental design study, J Photochem Photobiol A Chem, M. Gharbalifard , A. Nezamzadeh-Ejhie, 446 (2024) 115159.

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

RICORDIAMO che i curricula SARANNO RESI PUBBLICI sul sito di **Ateneo** e pertanto si prega di non inserire dati sensibili e personali. Il presente modello è già precostruito per soddisfare la necessità di pubblicazione senza dati sensibili.

Si prega pertanto di **NON FIRMARE** il presente modello.

Luogo e data: 27/12/2024