Bouchaayb BOUZKRAOUİ

Materials science Energy and Nano-engineering

Recently graduated with a master's degree in Materials Science, Energy and Nano-Engineering at Mohammed VI Polytechnic University in the MSN department (Materials Science, Energy and Nano-Engineering) option phosphate and sustainable development

bouchaayb.Bouzkraoui@um6p.ma

Single

25 years old

Moroccan

Essaouira

+212633332104

Languages

Spanish

Arabic

French

English

Formation

MATERIALS POLYMER SYNTHESIS-MASCIR INDUSTRY

injection, extrusion...

Entrepreuneurship

MANAGEMENT PROJECT

Quality, health, safety and environment (QHSE)

FIRE, RISK MANAGEMENT
ISO 9000 , ISO 14000

İnterests

Reading

scenario creation

Travelling

CERTİFİCATİON

Speed up you research with Reaxys and Scopus

HOW TO SEARCH ON SEARCH ENGINE WITH SCOPUS

Search for relevant literature and select the journals in which to publish

How to search in the relevant literature and how to select the journals in which to publish by research organization / advanced research

Education

Green energy park — **Benguerir**
Free internship — From June 2022 to September 2022

THERMAL ENERGY STORAGE

Mohammed VI polytechnic University — **Benguerir-Morocco**
Masters degree in Materials science,Energy and Nano-engineering — From September 2019 to October 2021

Cadi ayyad University — **Marrakesh-Morocco**
Bachelor's degree in Materials chemistry — From September 2016 to July 2019

Akensous School — **Essaouira-Morocco**
Baccalaureate's degree in Experimental science — From September 2015 to June 2016

Work experience

Green Energy park — **Benguerir-Ongoing**
Developpement a Novel Materials based Rock for thermal storage — From May 2022 to August 2022

*collection and selection of Raw materials : pegmatite
* characterization of raw materials : XRD,XRF,DSC,FTIR
*Synthesis of Geopolymers based Rock : alkali activation
*thermal Testing the Novel materials : thermal conductivity, Cp

MENARA HOLDING — **Marrakesh-Morocco**
Materials engineer in composite materials based Biopolymers -Fiber reinfoced construction materials — From April 2021 to September 2021

*Charactherization of raw materials by FTIR,XRF,XRD,TGA/TDG
*Preparation of raw matrials: crushing, grinding, drying, screening/sieving and determine the granulometry of samples
*synthesis method of mortars and Formulation optimization
*Charactherization of composite (Fiber+mortar) by charactherization technics
*Mechanical charactherization: Compression, flexural and tensile strength

OCP/observation Internship — **SAFI-Morocco**
PFA In Recovery phosphogypsum — From July 2020 to September 2020

*Charactherization of phosphogypsum
*Application of phosphogypsum
*The important of use phosphogypsum in construction materials

CERTİFİCATİON

Choice of research topics and collaboration

How to choose the topics and collaborations

Personal project

Synthesis, caractherization of cathode LiFePO4 by solid state methode battery

*Solid state Synthesis of LiFePO4
* Charactherization of LFP : XRD,SEM,CV, Galvanostatic charge/discharge
* Half cell based on LiFePO4 cathode
* Assembling Full-cell in argon box

Elctrochemical Synthesis Of Nanostructured Materials For Electrochemical Energy storage case LiMnO2 and LiFePO4

*Synthesis Of materials /voltametry cyclic (Electrodeposition);Sol-gel method
*Mn electrodeposition in the slides/ voltametry cyclic
*Preparation of the slurry AND Charactherisation : DRX, MET; FTIR/ works in the argon box
*Caractherization by (cycle charge/desharge)/impedence spectrroscopie

Fabrication and characterization of thin sections from rocks

The petrographic study of thin sections of phosphate rock
Characterization of the samples taken by observation under a polarizing microscope.

Synthesis and caracterization of Refractory materials and Geopolymers (Si-O-Al-O)

*Charachterisation of refractory materials
*Synthesis of refractory materials/ Synthesis of percelaine that resists up to 1200 ° C
*Thermal heat treatment up to 1200 ° C
*Geopolymer setting test/ Charactherisation mechanical properties of Geopolymer : Compression, Flexural, Strain strength

Development new formulation of nanoparticles-based Perovskite for catalytic application

*Synthesize by solid state
*Charactherisation of Perovskite synteyized by (MET,MEB, XRD,...) and Retveld
*Perovskite doping by other element/ Crystallography field for structure ABO3

Social networks

@BOUCHAAYB BOUZKRAOUI

Work experience

FSSM — **Marrakesh, Morocco**
Organic synthesis: Asperine, canizaro reaction, saponification — From January 2017 to February 2019

*Synthesis on organic chemistry
*Characterization NMR,SM,FTIR, XRD
* Comparaison purity to commercial product
* Calculate the efficiency and mass effect

Skills

Experimental design and Lean-manufacturing

Advanced materials porous charactherization

Synthesis methods

Solid state, Solgel,hydrothermal, and electrochemical

Charactherization technics:

Physical chemical: XRD XRF RAMAN, MET/SEM, TGA/TDG,FTIR, UV-vis,DSC...
Mechanical: FLEXURAL, compression and tensile STRENGTH

Skills

QHSE

mettalic materials metallurgy

materials metallurgy

capturing results and writing reports

Minerallogy Analysis

Optics analysis
thin blades

knowledge and compliance with regulation

Preparation of samples and analytical devices

Life cycle assesment

ACV

Project management and entrepreneurship

measurement and analysis data exploitation

Computer skills

JMP 7

Experimental design

ASPEN PLUS

Highscoore

Fullprof and VESTA

peaks refinement, Visualization

OFFICE TOOLS

Word, Powerpoint, Excel, Excel macro

Crystallmaker, Crystaldifract

charactherization softwar and interpretation
Visualization 3D structure