



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE **5768**

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di MILANO**

Scientist- in - charge: Prof. **Emma Gallo**

[Name and surname]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	BOUCHERABINE
Name	Djihed

PRESENT OCCUPATION

Appointment	Structure
Ph. D student	Ferhat Abbas University of Sétif-1/ Algeria

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	/	/	/
Specialization	/	/	/
PhD	Electrochemical engineering	Ferhat Abbas University of Sétif-1/ Algeria	I am about to finish my Ph.D. study
Master	Physical Chemistry	Ferhat Abbas University of Sétif-1/ Algeria	2017
Degree of medical specialization	/	/	/
Degree of European specialization	/	/	/
Other	/	/	/



REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date registration	of	Association	City
/		/	/

FOREIGN LANGUAGES

Languages	level of knowledge
English, French	Advanced
Arabic	Native

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2022	Department of Chemical Sciences-University of Naples Federico II/ Italy under the supervision of Professor Francesco Ruffo
2021	IEA-Training /Academy-experts/ Séminaire-formation docking moléculaire (Programme DM.CT_D212 Setif/ Algeria)
2021	The Third Spectroscopy Winter School SWS-3/ National Research Institute of Astronomy and Geophysics, NRIAG, Cairo- Egypt)

TRAINING OR RESEARCH ACTIVITY

<p>description of activity</p> <p>In my Ph.D Studies entitled: Application of transition metal complexes in homogeneous catalysis.</p> <p>My main fields of interest are the following:</p> <p>Synthesis of new transition metal complexes</p> <p>Spectroscopy (IR, NMR, DRX, microanalysis, mass spectrometry, ...</p> <p>Electrochemistry,</p> <p>Catalysis</p> <p>DFT and TD-DFT calculation</p> <p>Docking molecular</p> <p>Biological activities</p> <p>I have attended courses, some of which are related to:</p> <p>Spectroscopy techniques (IR, NMR, X-ray diffraction)</p> <p>Computational chemistry: DFT and TD-DFT by a Gaussain09</p> <p>In the time spend in department of Chemical Sciences-University of Naples Federico II/ Italy under the supervision of Professor Francesco Ruffo, we focused on the synthesis of iron complexes from Schiff base ligands, the characterization and identification carried out on different spectral methods as:</p> <p>¹H and ¹³C NMR</p> <p>IR spectroscopy</p>



The synthesized complexes applied Lewis acid catalysis for conversion of biomass.

Another part of the work is the characterization of some metal transition complexes by 2D NMR and X-ray diffraction

PROJECT ACTIVITY

Year	Project
/	/
/	/

PATENTS

Patent
Research interests <ul style="list-style-type: none">□ Synthesis of Schiff base complexes□ NMR Characterization□ Electrochemical□ Electrocatalyse□ Catalyse
Computer skills <ul style="list-style-type: none">□ Microsoft Office□ Origin□ ChemDraw Ultra□ NMR Notebook□ Ortep3□ Pov-Ray□ Mercury□ PubCIF□ Gaussian□ Docking

CONGRESSES AND SEMINARS

Date	Title	Place
2022	Synthesis and intensive characterization for novel VO(IV) and Cu(II)-diazomethine Schiff base complexes; Bromination of phenol red using H ₂ O ₂ , DFT computational studies	1st International Conference on Innovative Academic Studies, September 10 - 13, 2022, Konya, Turkey
2022	Study of a novel azomethine iron complex: catalytic activity in the	Cinquième Colloque Maghrébin sur la Chimie Hétérocyclique CMCH 5-2022, 13-15 Juillet



	oxidation of olefins	2022 à la FSM, Meknès, Maroc
2022	Synthesis, Characterization, Electrochemistry and catalytic performance of Oxovanadium Tetradentate Schiff base complex.	La deuxième édition de la Conférence Internationale sur les Sciences et Génie des Matériaux et leurs Impacts sur l'Environnement (ICMSE-21) 03 - 04 Juillet 2022 Sidi Bel Abbes (Algérie)
2022	Mononuclear oxovanadium complex with tetradentate Schiff ligand: synthesis, structure and catalytic bromine dynamics of phenol red.	The first International Seminar on Materials Synthesis and Environmental Monitoring ISMSEM2022 07-09 Feb 2022 Ouargla (Algeria)
2022	Application des complexes de métaux de transition dans la catalyse homogène.	7 ^{ème} Journée des Doctorants 2022 (JD'2022) 11 mai 2022 Sétif/ Algeria
2021	Oxovanadium (IV) Schiff Base Complex from Unsymmetrical Tetradentate Schiff Base Ligand as Catalysts for Oxidation of Cyclohexene	2nd International 9 th International Symposium on Applied Engineering and Sciences (SAES2021) 5th-8th December 2021 MALAYSIA
2021	A novel tetradentate transition metal diazomethine complexes: Synthesis, Characterization and Density Functional Theory approaches.	International conference IC-SEAM'21; Ouargla, Algeria April 21-22, 2021.
2021	Electrochemical behavior of a novel tetradentate diazomethine Oxovanadium complex. Bromo-peroxidation Studies;	The 1st National Virtual Conference on Chemical Process and Environmental Engineering (nvccpee 2021) 15-16 Décembre 2021 Biskra/Algeria
2021	A novel tetradentate transition metal diazomethine complexes: Synthesis, Characterization and Density Functional Theory approaches.	2 ^{ème} Séminaire National des Sciences d'Interfaces Chimie-Biologie Samedi 20 février 2021 à Univ Souk-Ahras
2020	Synthesis and Computational Study of New Unsymmetrical Tetradentate Schiff Base Ligand.	The Second International Conference on Molecular Modeling and Spectroscopy 23- 24 September 2020, Egypte
2020	Structural investigation of new unsymmetrical organic materials; synthesis, spectral characterization, electrochemical, catalytic oxidation and computational simulation.	The Third International Symposium on Materials, Electrochemistry and Environment (CIMEE 2020) 17 - 19 September 2020, Lebanon
2020	Complexes de métaux de transition diazométhines : structure, caractérisation spectroscopique, calcul théorique et investigation électrochimique.	13 ^{èmes} Journées internationales de Chimie Théorique et Computationnelle JCTC'13 02-03Février 2020 Biskra ;
2019	Electrochemical, structural and electronic properties of a novel tetradentate diazomethine oxovanadium material: à theoretical study.	First international Workshop on Environmental Engineering (IWEE 2019) 16- 17 November 2019 Poster Presentation Setif.
2019	X-ray structure, Spectroscopic and electrochemical properties of a symetric diazomethine iron Complex.	Conférence Nationale sur la Chimie des Matériaux Boumerdes, 03 Juillet 2019



2019	Recent developments in unsymmetrical tetradentate oxovanadium Schiff base (SB) complexes: Synthesis, Spectroscopy, Electrochemistry and Theoretical Investigations,	Les 1 ères Journées d'Etude sur la Chimie et ses Applications (JECA-1-2019) Batna, 27 Novembre 2019.
2019	Elaboration of novel unsymmetrical oxovanadium Schiff base (SB) complex: electrochemical investigation and DFT calculation,	1 er Séminaire National sur la Chimie Analytique, Matériaux et Substances Naturelles (CAMSN 2019), 17 décembre 2019 à l'Université Blida1.

PUBLICATIONS

Books
Article Under reviewing
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]

Articles in reviews
[title of the article, review, place, publishing house, year ...]
[title of the article, review, place, publishing house, year ...]
[title of the article, review, place, publishing house, year ...]

Congress proceedings
[title, structure, place, year]
[title, structure, place, year]
[title, structure, place, year]

OTHER INFORMATION

KEY WORDS
Schiff Base, Complex, X-Ray, NMR, Characterization, DFT, Molecular Docking, Materials

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

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Place and date: **Algeria in 11.05.2023**