

# Boughoual Amina

## *Curriculum Vitae*

Birth Date: 23.06.1990

Birth Place: Khenchela, Algeria

Nationality: Algerian

Address: Laboratory of Engineering and Advanced Materials Sciences (ISMA)  
Abbes Laghrour University of Khenchela, Algeria

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### ***DIPLOMAS OBTAINED***

**2018**; **Ph.D. in** structural chemistry

Abbes Laghrour University of Khenchela, Algeria

**2018**; **Ph.D. in** coordination chemistry

Claude Bernard Lyon 1, University of Lyon . France

**2014**: Master's degree in Chemistry and Physics of Condensed Matter.

Abbes Laghrour University of Khenchela, Algeria.

**2012**: Bachelor degree in Chemistry

Abbes Laghrour University in Khenchela, Algeria.

**2009**: Baccalaureate degree in Scientific Experimental Sciences

### ***PROFESSIONAL ACTIVITIES***

**July 2023** **Grade: Lecturer class A** Department of Matter Sciences - University of Abbes Laghrour-Khenchela

**2019-2023** **Grade: Lecturer class B** Department of Matter Sciences - University of Abbes Laghrour-Khenchela

**2018-2019** **Grade: Assistant lecturer class B-** Department of Matter Sciences - University of Abbes Laghrour- Khenchela

### ***SCIENTIFIC OUTPUT***

#### **International Publications**

“**Amina Boughoual and all**.”Novel copper (II) and zinc (II) complexes with enrofloxacin and oxolinic acid: synthesis, characterization, Hirshfeld surface and DFT/CAM-B3LYPD3BJ studies: NBO, QTAIM and RDG analysis“, 15 February 2023 Journal of Molecular Structure 1282 (2023) 135141

<https://doi.org/10.1016/j.molstruc.2023.135141>

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“**Amina Boughoual and all** “New model of metalloantibiotic: synthesis, structure and biological activity of a zinc(II) mononuclear complex carrying two enrofloxacin and sulfadiazine antibiotics Journal of New Journal of Chemistry., 2018,42, 15346-15352 <https://doi.org/10.1039/C8NJ01774C>

## International Communications

**Amina Boughougal**, Rayene Kadri, Mekki Kadri, Jean Bernard Tommasino, Guillaume Pilet, Amel Messai, Dominique Luneau, “Novel copper (II) and zinc (II) complexes with enrofloxacin and oxolinic acid: synthesis, characterization by single –crystal x ray diffraction, infrared and <sup>1</sup> H NMR spectroscopy” . International Conference on Materials Science and Applications. Février 2023. Université Abbes Laghrour Khenchela, <http://icmsa.rf.gd/?i=1>

**-Amina Boughougal**, Jean Bernard Tommasino, Guillaume Pilet, Amel Messai, Dominique Luneau. “New zinc (II) complex with two Enrofloxacin and Sulfadiazine antibiotics: Structure–biological activity“. Colloque Maghrébin sur la Chimie Hétérocyclique CMCH 5-2022. Juillet 2022. Université Moulay Ismail, Meknès au Maroc et L’Association Tunisienne de Chimie Hétérocyclique et ses Applications (STCHA) en Tunisie. <http://www.cnrsrnrt.tn/fr/index.php?typeactu=85&actu=516>

## National Communications

**Amina Boughougal**, Jean Bernard Tommasino, Guillaume Pilet, Amel Messai, Dominique Luneau “Metal-antibiotic complex associating two types of different antibiotic as ligands with Zn(II) Spectroscopy and X-ray structural characterization; Antibacterial studies”. 2<sup>ème</sup> séminaire national des sciences d’interfaces Chimie-Biologie. 20 Février 2021. Université de Mohammed-Chérif Messaadia , soukahras. <https://www.univ-soukahras.dz/fr/relex/43235>

**-Amina Boughougal**, Fatima Zahra Cherchali, Amel Messai, Nina Attik , Dominique Decoret , Maggi Hologne, Corinne Sanglar, , Guillaume Pilet , Jean Bernard Tommasino, Dominique Luneau, “Synthesis, characterization, biological activity and crystal structure of a zinc (II) complex with sulfonamide family member (sulfadiazine) and with quinolone family (enrofloxacin)” The First National Conference on Materials Sciences and Engineering. 28-29 juin 2022 Université de Abbes Laghrou. Khenchela <https://www.jetjournal.org/index.php/ajet/announcement/view/9>

## International Days

**Amina Boughougal**, Jean Bernard Tommasino, Guillaume Pilet, Amel Messai, Dominique Luneau. “Synthesis and characterization of new antimicrobial compounds based on modified sulfonamide ligands “. International Days on organic chemistry of Annaba JICOA’22. décembre 2022 Université de Badji Mokhtar .Annaba. <https://www.univ-annaba.dz/events/les-cinquiemes-journees-internationales-de-chimie-organique-de-annaba-jicoa22/>

## Organisation commette member

-The International Workshop on Structural Resolution by Single Crystal and Powder X-ray Diffraction + Remonte Control of Single Crystal x Ray Diffractometer Online., 6-7 /11/ 2022 Abbes LAGHROUR university Khenchela, (Algeria).

The first International conference on Materials Sciences and Technology ( MATScience-20222), 13-15 /12/ 2022 Abbes LAGHROUR university Khenchela, (Algeria). <https://matscience2022.wixsite.com/uakh>

- The first International conference on materials science and applications (ICMSA'23), February 08-09.2023, Abbes LAGHROUR university Khenchela, (Algeria). , <http://icmsa.rf.gd/?i=1>

### **Article expertise**

I reviewed some articles for the first National conference on Materials sciences and Engineering, (MSE'22)" 28-29/06/2022. Abbes LAGHROUR university Khenchela, (Algeria).

<https://www.jetjournal.org/index.php/ajet/announcement/view>

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## **COMPUTER SKILLS and LANGUAGES**

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**Characterization techniques:** X-ray diffraction (XRD), Fourier transform infrared spectroscopy (FTIR), Ultraviolet–visible spectroscopy (UV-Vis) , Nuclear magnetic resonance (NMR), electrochemical analyzes, molecular docking, biological activity.

**Programs:** .WinGX package, Origin,Mercury, ChimDraw .Autodock tools, VoltaMaster4, MesterNova Endnote.,

PASCAL, and Office (Word, Excel, and PowerPoint).

### **Languages:**

- **Arabic:** proficient in both written and spoken forms;
- **French:** proficient in both written and spoken forms;
- **English:** average in both written and spoken forms.