

# Curriculum Vitae



University of Echahid Hama Lakhder  
Faculty of technology  
Department of Process Engineering and  
Petro chemistry  
B.P.789, 39000, El Oued Algeria

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## Hadia Hemmami , PhD

Birth Date: april 27, 1990 El-Oued

### Education

- Nov 2013 – March 2017*      **University of Echahid Hama Lakhder , El-Oued**  
Phd, Chemistry : Electrochemistry Analytical and Environment  
El-Oued, El-Oued, Algeria
- Sep 2011 – Sep 2013*      **University of Echahid Hama Lakhder , El-Oued**  
Master, Chemistry : Analytical Organic Chemistry  
El-Oued, El-Oued, Algeria
- Sep 2008 – Jun 2011*      **University of Echahid Hama Lakhder , El-Oued**  
Licence , Chemistry : organic chemistry  
El-Oued, El-Oued, Algeria

### Thesis

Hadia Hemmami: *Synthesis, characterization and in vitro evaluation of the biological activity and mutagenicity of some N- (ferrocenylmethyl) nitroaniline*

03/2017, Degree: PHD, Supervisor: LANEZ Touhami

Hadia Hemmami: *evaluation of the antioxidant activity of the extracts of Capsicum annuum L from the El-Oued region*

Degree: Master, Supervisor: KHELEF abdelhamid

### Research Experience

- Sep 2018 – present*      **Associate researcher**  
University of Echahid Hama Lakhder, chemistry  
El Oued, Wilaya d' El Oued, Algeria

## Skills & Activities

*Skills* Antioxidants, Chromatography, Electroanalytical Chemistry, Antioxidant Activity, Cyclic Voltammetry, Voltammetry, Electrochemistry, total phenolic, Analytical Chemistry, Polyphenols, Electrochemical Analysis, Electrochemical Techniques, Flavonoids, DPPH, Phenolic Compounds, Electrodes, Electrochemical Methods, Phytochemicals, Natural Product Chemistry, Electrochemical Detection, Electroanalysis, Amperometry, Electrodeposition, Electrocatalysis, Potentiometry, Bioelectrochemistry, Bioactivity, Natural Product Isolation, High-Performance Liquid Chromatography, Extraction, Free Radical

*Languages* Arabic, Franch ,English

## Professional History

Department of Process Engineering and Petro chemistry, University of Echahid Hama Lakhder, Eloued, Algeria

2018-2019 ; Assistant Professor of Chemistry (MAB)

2019-2021 ; Associate Professor of Chemistry (MCB)

2021 -present Associate Professor of Chemistry (MCA)

## Teaching

### Courses Taught

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Université Echahid Hama Lakhdar, El-Oued		
Faculté de Technologie, Département de génie des procédés et pétrochimie		
1 <sup>st</sup> Licence ST	Course + TD +TP 2018-2019 2019-2020 2020-2021	Structure of Matter
3 <sup>rd</sup> Licence GP+ Raff	Course + TD 2018-2019 2019-2020	Electrochemistry
2 <sup>nd</sup> Licence GP+ Raff	Course+ TD 2018-2019 2019-2020 2020-2021	Organic chemistry
2 <sup>nd</sup> master GCH+ PC+ GF	Course: 2020-2021	Documentary research and design from memory

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## Graduate Student Theses/Dissertations Directed

Dahem Imene & medjoure bechira , M.S." Phytochemical study of capsicum pepper spp and valorisation of biological activities " june 2018.

Ghouli Imane & Meki Aicha, M.S." Study of the biological activity of extracts of orange cortex and citrus in vitro study " june 2018.

Geunoni Manel ,Khalo Amel & Othmani Sana , M.S." Evaluatin of antioxidant activity of some natural compounds and Determination of bond coefficients for the radical of : DPPH and O<sub>2</sub> , Septembre 2020.

Aouitti Sabrine ,Soid Nabila & Zaabi Khaola , M.S." Evaluatin of antioxidant activity of some natural and synthetic compounds and Determination of bond coefficients for the radical of DPPH, "spectroscopic and electrochemical method" Septembre 2020.

Randa Benismail, yousra khelil, zineb mokeddem, M.S." Green synthesis of chitosan nanoparticles and study of its application : A review " june 2021.

Tamma Mereim, Baraika wassila, Azeb Atmane Aicha M.S." Electrochemical Biosensors based on molecularly imprinted of polysaccharide chitosan : Areview " june 2021.

## Journal Publications

Touhami Lanez, Meriem Henni, **Hadia Hemmami** : *development of cyclic voltammetric method for the study of the interaction of antioxidant standards with superoxide anion radicals case of  $\alpha$ -tocopherol. scientific study & research chemistry & chemical engineering, biotechnology, food industry 2015, 16 (2) .*

Touhami Lanez , **Hemmami Hadia**: *development of spectrophotometrical assay for the study of the interaction of antioxidant standards with 1,1-diphenyl-2-picrylhydrazyl free radicals. scientific study & research chemistry & chemical engineering, biotechnology, food industry 2015, 16 (3).*

A. Chouikh, E.H. Adjal, M. Mekki, **H. Hemmami**, A. Feriani, A. Rebiai, A. Zaater, A. Chefrour: *Comparison of ultra-sound and maceration extraction methods of phenolics contents and antioxidant activities of Saharian medicinal plant Calligonum comosum L'her.. Journal of Materials and Environmental Science 05/2016; 7(6).*

Omar Ben Mya, Laroussi Ben Amar, Bilel Zarroud & **Hadia Hemmami**:*Deglet Nour Dates Phoenix dactylifera L.: An Alternative Source to Sugar in Algeria. An International Journal of Sugar Crops and Related Industries ISSN 0972-1525 Sugar Tech . DOI 10.1007/s12355-016-0462-x*

Touhami Lanez, **Hemmami Hadia**: *Antioxidant Activities of N-ferrocenylmethyl-2- and -3-nitroaniline and Determination of their Binding Parameters with Superoxide Anion Radicals. Current Pharmaceutical Analysis, 2017, 13, 000-000. DOI: 10.2174/1573412912666160831145524*

- Bachir Ben Seghir , Ilham Ben Amor , Ahlam Beki , Imane Souici , **Hadia Hemmami** , Zeghoud Soumeia , Laouini Salah eddine , Abdelkrim Rebiai : *Preparation and Optimization of Keratin from Sheep Wool Using Response Surface Methodology, Asian Journal of Research in Chemistry 13(3):157-162, June 2020. DOI: 10.5958/0974-4150.2020.00031.0*
- Bachir Ben Seghira, **Hadia Hemmami**, Zeghoud Soumeia, Salah Eddine Laouini, Abdelkrim Rebiai , Ilham Ben Amor , Imane Souici, Ahlam Beki: *Preparation methods keratin and nanoparticles keratin from wool: a review. Algerian Journal of Chemical Engineering 01 (2020) 5–11*
- Hadia Hemmami** , Bachir Ben Seghir , Abdelkrim Rebiai , Abdelhamid Khelef and Zeghoud Soumeia: *Comparative Study on Polyphenols Content and Antioxidant Activity of Three Sweet Peppers Varieties (Capsicum annuum L.). Current Chemical Biology, 2020, 14, 00-00*
- Hadia Hemmami**, Bachir BEN SEGHIR , Mustapha BEN ALI, Abdelkrim REBIAI, Soumeia ZEGHOUD, and Fatima BRAHMIA: Phenolic profile and antioxidant activity of bee pollen extracts from different regions of Algeria. *Ovidius University Annals of Chemistry*, pp. 93 - 98, 2020, DOI: 10.2478/auoc-2020-0017
- Soumeia Zeghoud, Abdelkrim Rebiai, **Hadia Hemmami**, Bachir Ben Seghir, Nouredine Elboughdiri, Saad Ghareba, Djamel Ghernaout, and Nadir Abbas: *ATR–FTIR Spectroscopy, HPLC Chromatography, and Multivariate Analysis for Controlling Bee Pollen Quality in Some Algerian Regions. American Chemical Society ; 2021 ; <https://dx.doi.org/10.1021/acsomega.0c05816>*
- Rebiai, Abdelkrim, **Hadia Hemmami**, Soumeia Zeghoud, Bachir Ben Seghir, Imane Kouadri, LaouiniSalah Eddine, Nouredine Elboughdiri, Saad Ghareba, Djamel Ghernaout, and Nadir Abbas. "Current Application of Chemometrics Analysis in Authentication of Natural Products: A Review." *Combinatorial Chemistry & High Throughput Screening (2021). DOI: [10.2174/1386207324666210309102239](https://doi.org/10.2174/1386207324666210309102239)*
- A. Rebiai , B. Ben Seghir, **H. Hemmami**, S. Zeghoud , T. Siham , I. Kouadri , H. Terea , F. Brahmia, Clustering and discernment of Algerian bee pollen using an image analysis system, *Algerian Journal of Chemical Engineering 02 (2021); [http://dx.doi.org/ 10.5281/zenodo.5105756](http://dx.doi.org/10.5281/zenodo.5105756)*
- A. Rebiai, B.B. Seghir, **H. Hemmami**, S. Zeghoud, M.L. Belfar, I. Kouadri, Determination of some phenolic acids in Algerian propolis, *Ovidius University Annals of Chemistry*, 32 (2021) 120-124.
- S. Zeghoud, **H. Hemmami**, A. Rebiai, B. Ben Seghir, Using FTIR spectroscopy and chemometrics for classifying of algerian medicinal plant species, *Vegetos, (2021) 1-8.*
- I. Kouadri, A. Rebiai, **H. Hemmami**, B.B. Seghir, S. Zeghoud, D. Berra, R.M. Bouchra, Impact of geographic variation on the chemical composition and antioxidant activity of Algerian propolis.

## Conference Proceedings

- Khelef Abdelhamid, **Hemmami Hadia** et Guezei Nadia: *evaluation of the antioxidant activity of polyphenols extracted from two varieties of capsicum annuum L of the el-Oued region by cyclic voltammetry* . First **National Seminar** on Electrochemistry - Methods and Applications , University of El Oued; 05/2014
- Mekki. M, E.H. Adjal, A. Chouikh , **Hemmami Hadia**: *effets of extraction method on the phenolic contents and antioxidant activities of ethanol extract from plants medicinal saharian colligonum comosum l'her*. First **National Seminar** « biologie et santé» , University of El Oued ; 16-17/03 /2015
- Adjal. E.H, A. Chouikh , **Hemmami Hadia**: *contribution a l'étude de l'effluence de différentes méthodes d'extraction sur la quantification des composés phénoliques et l'activité antioxydant des extraits méthanoïques de colligonum comosum l'her* , First **National Seminar** « biologie et santé» , University of El Oued ; 16-17/03 /2015
- Adjal E.H, M. Mekki, Chouikh .A, Rebiai Abdelkrim, **Hemmami Hadia**: *contribution a l'etude de l'effet de methode d'extraction et le solvant sur la quantification de quelques composees phenoliques chez calligonum comosum l'her*, 1<sup>er</sup> **Séminaire National** de Valorisation des Ressources Naturelles et Environnement , University of El Oued ; 10-11/11/2015
- Hemmami Hadia**, LANEZ Touhami : *Electrochemical approach for the determination of superoxide anion radical interaction parameters – Antioxidant*, First **National Seminar** on the Valorization of Natural Resources and the Environment, University of El Oued ; 10-11 /11 /2015
- Hemmami Hadia** : *electrochemical study of the interaction between the radical superoxide anion and "n-(ferrocenylmethyl) -3-nitrobenzenamine"*, **3<sup>rd</sup> day of study** on electrochemistry and the environment , University of El Oued ; 28 /01/ 2016
- Houga sara ,meraghni amel , Adjal el hadda , chuikh atef , Hemmami Hadia: *antioxydant activity of methanol extract , flavonoids and tannins fro plant medicinal saharian retamaraetam (forssk)webb et berthel* , **2<sup>nd</sup> national seminar** « biologie et santé», University of El Oued ; 14-15 /03/ 2016
- Meraghni amel, Sara houga, chuikh atef, Adjal el hadda , **Hemmami Hadia**: *Antibacterial activity of methanol , ethyl acetate , 1- butanol, tannins extracts of retamaraetam (frssek) webb et berthel . on ten strains bacteria's pathogens* , **2<sup>nd</sup> national seminar** « biologie et santé», University of El Oued ; 14-15 /03/ 2016
- Hemmami Hadia** : *In vitro evaluation of the antioxidant activity and mutagenicity of N-ferrocenylmethyl-N-(meta and para-nitrophenyl) acetamide* , **First Day of studies** medicinal plants, health and environment ,University of El Oued ; 27 /04/ 2017
- Hemmami Hadia** : *In vitro electrochemical and spectroscopic study of the interaction of some ferrocene amines with DNA*, **3<sup>rd</sup> day** biological science, University of El Oued ; 30 /04/ 2017

**Hemmami Hadia** : *Contribution a l'étude de l'effet de solvant sur la quantification de quelque composés phénoliques chez Capsicum annuum / spp* , **1<sup>st</sup> International Seminar** on Green Chemistry and Sustainable Engineering , University of El Oued ; 17-18/12/ 2019

**Hemmami Hadia** : *Détermination électrochimique des paramètres d'interaction de O<sub>2</sub><sup>°</sup> avec quelques amines Fc* , **1<sup>st</sup> International Seminar** on Green Chemistry and Sustainable Engineering , University of El Oued ; 17-18/12/ 2019

Zeghoud Soumeia, Rebiai Abdelkrim, **Hemmami Hadia** and Ben Seghir Bachir :

*تحديد نواتج الأيض الثانوي بالطرق الطيفية (تقدير المحتوى الكلي لمتعدد الفينول و الفلافونويد) لبعض النباتات الصحراوية,*

**International Pluridisciplinary PhD Meeting (IPPM'20)** 1st Edition, University of El Oued, February 23-26, 2020

Zeghoud Soumeia, **Hemmami Hadia** and Rebiai Abdelkrim : *Etude quantitative par méthode spectral (UV) a partir plante saharienne " la genista saharae cosson et dur (fabaceae) "* , **3<sup>rd</sup> International** symposium medicinal plants and materials (MPM 2020), University of El Larbi Tebessi - Tebessa (Algeria ), February 25-27, 2020