

# Amel Haouas

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72 Street Mohamed Habib Chatti, 4070 Msaken-Tunisia  
Northern Border– Arar- Saudi Arabia

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## SECONDARY AND UNIVERSITY SCHOOL TEACHER

- A dynamic and respected professional teacher with an exemplary track record of designing and delivering excellent interactive lesson plans tailored to the needs of each student.
  - Is always fully able to establish and maintain productive relationships with children and parents.
  - Stimulating, reliable mentor and motivator known for setting and maintaining high standards and instilling the confidence students need to succeed.
  - Strives to foster self-esteem, encourages understanding of cultural diversity and restrictions. Emphasizes a sense of collaboration in her classes.
  - Solution-oriented, highly skilled at adapting to various learning styles.
- My goal is to integrate a teaching team in a school in Canada, teaching is in my blood and building the future generation is my daily desire.

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## PROFESSIONAL EXPERIENCE

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| Higher level teacher                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sep 2016 – untel now |
| Faculty of Science, Arar, Arabie Saoudite.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                      |
| <ul style="list-style-type: none"><li>• Preparing the subject matter to be taught to students</li><li>• Provide students with bi-weekly progress reports, present challenges and share successes.</li><li>• Teach students according to a methodical plan that includes lectures, discussions, audio-visual presentations, laboratory, workshop and hands-on studies.</li><li>• Distribute and correct assignments</li><li>• Prepares, administers and corrects exams</li><li>• Assess students' progress, identify individual needs and discuss results with parents and school authorities.</li><li>• Prepare and implement remedial programs for students who require further guidance and supervision</li><li>• Participate in staff meetings, educational conferences and teacher training workshops</li><li>• Teach or evaluate, as appropriate, students enrolled in online or distance education courses.</li></ul> |                      |
| Contract assistant professor with the Ministry of Higher Education                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2015 –2016           |
| Faculty of Pharmacie, Monastir, Tunisia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |
| Assistant professor in Organic Chemistry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2014 –2015           |
| Faculty des sciences, Monastir, Tunisia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                      |
| Teacher in primary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2008 –2009           |
| School Hay Al-Jadid, Msaken, Tunisia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                      |
| Contract Teacher with the program of education of adult                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2010 –2012           |
| School Hay Al-Nour, Msaken, Tunisia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                      |

## EDUCATION

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| P.h.D in Chemistry                                                   | 2015 |
| University de Monastir– Tunisia                                      |      |
| - Recognized by World Education Services Canada as a P.H.D           |      |
| Master's in Applied Organic Chemistry                                | 2010 |
| University de Monastir– Tunisia                                      |      |
| - Recognized by World Education Services Canada as a Master          |      |
| Master's Degree in Chemistry                                         | 2007 |
| University de Monastir– Tunisia                                      |      |
| - Recognized by World Education Services Canada as a Master's Degree |      |
| University undergraduate degree in Science of Material               | 2005 |
| University de Monastir– Tunisia                                      |      |
| - Recognized by World Education Services Canada as a Diploma         |      |
| ▪ End of secondary education certificate Mathematics                 | 2003 |
| School Farhat Hached M'saken – Tunisia                               |      |
| - Recognized by World Education Services Canada as a Baccalaureate   |      |

## Research activity

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### Publications

1. “Opto-Electronic Properties Enhancement of Silicon Solar Cells by Nickel Doped ZnO Nanoparticles “ M Salem, A Haouas, A Almohammed, H Ghannam, Silicon, 1-8 (2025)
2. “Tuning surface roughness and carrier dynamics using ZnO-doped CsPbBr<sub>3</sub> for enhanced efficiency in silicon photovoltaics“ M. Salem, A. Haouas, N, khemiri, O. Amor, A Almohammed, F Hassenjournal of Materials Science: Materials in Electronics 36 (30), 1927 (2025).
3. “Improved optoelectronic efficiency of CsPbBr<sub>3</sub> perovskite thin films decorated by ZnO nanoparticles “ M. Salem, O. Amor, **A Haouas**, Y. Litaïem, H. Brahim, H. Ghannam, F. Hassen, Optical and Quantum Electronics57 (8), 1-13 (2025).
4. “Enhanced optoelectronic performance of Ni-incorporated ZnO nanoparticles on silicon substrates “ M. Salem, **A. Haouas**, A. Almohammed, H. Ghannam, Journal of Materials Science: Materials in Electronics, 36 (21), 1323 (2025).
5. “Investigation of Stability of Emulsions Containing two Gums from the Gummiferae Family and Combinations“ D. Rabeea, **A. Haouas**, Egyptian Journal of Chemistry (2025).
6. “Zinc Oxide nano-sized derived from Zeolitic imidazolate framework-8 with enhanced electroactive properties of annealed homogenous composites film  $\beta$ -polyvinylidene fluoride PVDF“ M. Ahmadipour R. Halawani, N. Missaoui, J. Wannassi, **A. Haouas**, H. Kahri, F. A. Aloufi, B. Jamoussi, Z. H. Alnakhli, A. k. Hajri, H. Barhoumi; Journal of Materials Science: Materials in Electronics (2025).

7. "Advancing Silicon Surface Passivation by Copper Doped Zinc Oxide and Graphene Oxide Nanocomposite Thin Films" M. Salem, A. Haouas, A Almohammed, H Ghannam, Silicon, 1-9 (2025).
8. "Bi-doped ZnO nanoparticles: enhanced structural and dielectric properties for device applications" E. Bouzaïene, F.H. Rhouma, **A. Haouas**, K. Khirouni, J. Dhahri, Journal of Sol-Gel Science and Technology, 1-21(2025).
9. "Crystal structural characteristics and optical and electrical properties of Bi-doped  $(\text{Ba}_{0.8}\text{Sr}_{0.2})(\text{Ti}_{0.85}\text{Zr}_{0.15})\text{O}_3$  perovskite ceramics" R. Dhahri, F. Tayari, **A. Haouas**, H. J. Alathlawi, H. B. Albargi, E. B. Elkenany, A.M. Al-Syadi, N. Sharma, M. Lal, K. I. Nassar, Journal of Materials Science: Materials in Electronics, 36 (5), 331(2025).
10. "Noncovalent Interactions and Physicochemical Properties of a 8-hydroxyquinolinium-Bromoferrate(III) Hybrid Material: Experimental and Computational Approaches" B. Hamdi M. Hajji, **A. Haouas**, A. Jellali, N. Karâa, ChemistrySelect (2025)
11. "Structural and Optoelectronic Properties of Ni doped ZnO based Thin Films Deposited by Coprecipitation Spin Coating Method" M. Salem · **A. Haouas** · A. Almohammed · H. Ghannam, Journal of Electronic Materials (2025).
12. "Critical behavior and magnet effect simulation in  $\text{La}_{1-x}\text{Te}_x\text{MnO}_3$  manganites" M. Hsini, Houda Kaouach, **A. Haouas**, Applied Physics A, (2025) 131:417.
13. "Critical Behavior and Magnetocaloric Properties of LPSMO Nanocrystals via Landau Theory" M. Hsini, **A. Haouas**, F. Aouaini, Advanced Theory and Simulations, 2500092, (2025).
14. "Exploring the structure and reactivity of organic crystals: A combined crystallographic and quantum chemical analysis of a 1,5-benzodiazepine-based heterocycle" **A. Haouas**, Chemical Papers 79 (2557), (2025).
15. "Interfacial treatment insights of promising ternary Cu-doped ZnO-GO thin films for improved silicon surface passivation" **A. Haouas**, A. Boussaid, M. Salem, A. Almohammed, H. Ghannam, Journal of Materials Science: Materials in Electronics 36 , 364 (2025).
16. "Effect of annealing treatment on microstructure and properties of porous silicon combined alumina coating film for silicon solar cells application" M. Salem, B. M. Yahmadi, **A. Haouas**, A. Boussaid, , A. Almohammed, H. Ghannam, Journal of Materials Science: Materials in Electronics 36 (1), 1-9 (2025).
17. "Facile synthesis of Cu doped ZnO-graphene oxide nanocomposites hybrid photoanodes for enhanced photoelectrochemical activity" M. Salem, A. Haouas, H. Ghannam, **Multiscale and Multidisciplinary Modeling, Experiments and Design** 8, 8 (2025).
18. "Unravelling the structure and reactivity of N,O-heterocycles: a multifaceted quantum chemical approach using a benzoxazole derivative as a case study" F. Abdellaoui, A. Haouas, A. M. Samud, A.

- K Belaid, H. Al-Ghulikah, Y. A Taher, T. Guerfel, Z. M Bannur and M. Hajji, **journal of chemical sciences** 136, 76 (2024).
19. "Highly effective passivation of crystalline silicon surfaces achieved through transparent conductive Al-doped ZnO layers" M. Salem, A. Haouas, B. M. Yahmadi, H. Ghannam, A. Almohammed, **Optical and Quantum Electronics** 56, 1729 (2024).
20. "Synthesis and Characterization of Fe, Cu, and Cr Doped ZnO Nanocrystallite Films and the Effects on Passivation of Silicon Surface" M. Salem, **A. Haouas**, J. Salem, R. Daoub, M. Gassoumi, **Silicon** (2024).  
<https://link.springer.com/article/10.1007/s12633-024-03040-6>.
21. "Significant advancements in passivating crystalline silicon surfaces achieved through the implementation of metal-doped zinc oxide layers" M. Salem, **A. Haouas**, H. Ghannam, A. Almohammed, I. Massoudi, **J Mater Sci: Mater Electron** 35 (2024) 790.
22. "Comparative study of metal (Fe, Cu and Cr) doped ZnO nanostructure: Self-templated synthesis and application for photoelectrochemical water splitting" M. Salem, H. Ghannam, **A. Haouas**, A. Almohammed, I. Massoudi, **Brazilian Journal of Chemical Engineering** (2024).  
<https://doi.org/10.1007/s43153-024-00452-0>.
23. "Probing the significance, nature, and energetics of weak hydrogen bonding in the crystal structure of a 1-chloro-4-methoxybenzene derivative through structural and computational modeling" **A. Haouas**, **Journal of Chemical Papers** (2023). <https://doi.org/10.1007/s11696-023-03245-w>.
24. "Bis(DMAP) cobalt(II) porphyrin complexes: dielectric properties and visible light irradiated photocatalytic degradation of Toluidine Blue studies" N. Amiri, M. Guergueb, A. Haouas, M. Bourguiba, H. Nasri, **Inorganic Chemistry Communications** 158, (2023) 111551.
25. "The Unconventional Noncovalent Interactions Control: Crystallographic and Theoretical Analyses of the Crystalline Structure of 1,1'-(1-Chloro-4-methoxyphenyl)dibenzene as a Case Study" M. Hajji, **A. Haouas**, N. Abad, T. Guerfel, **Journal of Chemistry Select** 8(33) e202302624 (2023).
26. "The Unconventional Noncovalent Interactions Control: Crystallographic and Theoretical Analyses of the Crystalline Structure of 1,1'-(1-Chloro-4-methoxyphenyl)dibenzene as a Case Study" M. Hajji, **A. Haouas**, N. Abad, T. Guerfel, **Journal of Chemistry Select** 8(33) e202302624 (2023).
27. "Chemoselective chlorination of 1,5-benzodiazepin-2-one derivatives by activated DMSO" A. Ghabi, H. Mtiraoui, **A. Haouas**, H. Alghulikah, M. Sanselme, M. Msaddek, **Journal of Molecular Structure** 1294 (2023) 136520.
28. "Design and synthesis of new N-Substituted benzimidazolidinone as predicted Human BRD4 and Human Chymase inhibitors via molecular Docking Studies" A. Ghabi, H. Mtiraoui, **A. Haouas**, H. Alghulikah, M. Sanselme, M. Msaddek, **Journal of Molecular Structure** 1294 (2023) 136325.

29. "Synthesis, non-covalent interactions and chemical reactivity of 1- pentyl-3-phenylquinoxalin-2(1H)-one- Structural and computational studies"  
N. Abed, L. Guelmami, **A. Haouas**, M. Hajji, M. El Hafi, J. Sebhaoui, T. Guerfel, J. T. Mague, E. M. Essassi, Y. Ramli, **Journal of Molecular Structure** 1286 (2023) 135622.
30. "Synthesis of new 1,2,3-triazole linked benzimidazolidinone: single crystal Xray structure, biological activities evaluation and molecular docking studies"  
H. Al-Ghulikah, A. Ghabi, **A. Haouas**, , H. Mtiraoui, E. Jeanneau, M. Msaddek, **Arabian Journal of Chemistry** 16 (2023) 104566.
31. "Synthesis and structure of polycyclic 1,2,3-triazolylmethyl-benzimidazole derivatives — Experimental and computational quantum chemical studies"  
S. Ibrahim, **A. Haouas**, H. Al-Ghulikah, H. Mtiraoui, E. Jeanneau, M. Msaddek, and M. Hajji, **Journal of Molecular Structure** 1270 (2022) 133978.
32. "Synthesis of New Chiral Triazoles Linked 1,5-Benzodiazepine Conjugates via Copper- Catalyzed 1,3-Dipolar Cycloaddition Reaction"  
**A. Haouas**, H. Mtiraoui, N. Bouzayani, S. Ibrahim, S. Marque, M. Hajji , R. Bel-Hadj-Tahar and M. Msaddek **ChemistrySelect** 6(3), 419 (2021) .
33. "Synthesis of New Spirocyclopropane and Oxadiazole Products" **A. Haouas**, N. B. Hamadi and M. Msaddek **Heterocyclic Chemistry** 52, 1765 (2015).
34. "A facile one pot synthesis of substituted pyrazole derivatives" **A. Haouas**, N. B. Hamadi, A. Nsira and M. Msaddek **Journal of Chemical Research** 37, 435 (2013).
35. "Synthesis of new pyrazolines and their biological evaluation as antimicrobial agents"  
N. Louhichi, **A. Haouas**, N. B. Hamadi, M. Msaddek **Journal of Heterocyclic Chemistry** 49, 267 (2012).
20. "Synthesis and Chemistry of New Spiro- $\Delta^1$ -Pyrazoline" N. B. Hamadi, **A. Haouas**, M. Methamem and M. Msaddek **Journal of Chemical Research** 36, 563 (2012)
21. "The Synthesis and Chemistry of Pyrazolines Derived From Diphenyldiazomethane"  
N. Louhichi, **A. Haouas**, N. B. Hamadi and M. Msaddek **Heterocyclic Communications** 17, 215 (2011).

#### Oral Communications

1. 16<sup>èmes</sup> Journées Nationales de Chimie, Hammamet 19-22 December 2010.  
"Synthèse de nouveaux composés hétérocycliques à jonction spirannique"  
**A. Haouas**, N. Louhichi, N. B. Hamadi, M. Msadek
2. 2<sup>ème</sup> Forum des jeunes chercheurs chimistes Monastir 30 September-02 October 2011.  
"Synthèse de nouveaux spiro-cyclopropanes *gem*-diméthylés dérivés de la benzofuran-2-one"  
**A. Haouas**, J. Lachheb, M. Msadek

3. 5<sup>èmes</sup> journées de chimie organique, Hammamet 12-15 September 2012. "Étude de la réactivité du 2-diazopropane avec divers (Z) et (E)-arylidènebenzofuran-2-ones"

**A. Haouas**, J. Lachheb, M. Msadek

4. Second International Conference on "Research to Applications & Markets" Sousse 28-30 June 2013

"Synthesis Of New Pyrazolines And Their Biological Evaluation As Antimicrobial Agents"

**A. Haouas**, N. B. Hamadi, M. Msadek

5. 3<sup>èmes</sup> Forum des Jeunes Chercheurs Chimistes, Monastir 5-6 May 2014. "Synthèse de nouveaux spirocyclopropanes et des oxadiazoles" **A. Haouas**, M. Msadek

6. 4<sup>èmes</sup> Forum des Jeunes Chercheurs Chimistes Monastir, 31 October-01 November 2015. "Réactivité des esters propargyliques vis-à-vis des diazoalcanes. Évolution des cycloadduits."

**A. Haouas**, N. B. Hamadi, M. Msadek

#### Poster presentations

1. 5<sup>èmes</sup> journées de chimie organique, Hammamet 12-15 September 2012. "Cycloaddition 1,3-dipolaire des aryldiazométhanes avec des dérivés de la benzofuran-3-ones. Un nouveau système hétérocyclique hautement substitué" **A. Haouas**, N. B. Hamadi, M. Msadek

2. 4<sup>èmes</sup> Forum des Jeunes Chercheurs Chimistes, 31 October-01 November 2015. "Élaboration de nouveaux dérivés spirocyclopropaniques" Monastir. **A. Haouas**, N. B. Hamadi, M. Msadek

#### Research training

**01-10-2014 to 31-12-2014**

▪ 3 month of Scientific training under the supervision of Dr. Sébastien Vidal in the Institute of Molecular and Supramolecular Chemistry and Biochemistry, Laboratory of Organic Chemistry 2- Glycochemistry, University Claude Bernard, Lyon 1, Villeurbanne, France.

#### Formations

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1. Blackboard e-learning system
2. Building achievement tests
3. Managing the university education environment according to the different types of learners
4. Quality in the teaching process
5. Learning Outcomes and Curriculum Maps
6. Description of courses
7. Effective teaching planning
8. Academic advising and student support
9. The culture of research and qualitative scientific publication and its importance for universities
10. Cooperative Education and its Strategies

#### Languages

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French, English, Arabic

#### Computer skills

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Operating systems: MS-DOS, Windows 2000, Windows XP,...

Office organization: Office (Word, Excel, Power point...), image processing, Web of Science and EndNote, ...

Programming languages (C, C++ and Pascal)

Software: ChemDraw, MestReC, MestReNova