

CURRICULUM VITAE

Name and first name: Fatma Ammar Saadi

Date of birth: June 17th 1982

Nationality: Tunisian

Address: Northern Border University- Faculty of Sciences and Arts- Turaif

Department: Chemistry

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EDUCATION

Degree	University	Date
PhD in Chemistry, specialty: Organic Chemistry	University of Tunis El-Manar-Tunisia	2013
Master in Organic Chemistry	University of Tunis El-Manar-Tunisia	2010
Bachelor degree in chemistry	University of Tunis El-Manar- Tunisia	2008

WORK EXPERIENCE

Employment Status	Institution and Address	Date
Temporary Assistant Professor	University of Tunis El-Manar-Tunisia	2012-2017
Assistant Professor	Northern Border University - KSA	2018-Now

Scientific publications

1/ **Saâdi, F.**; Arfaoui, A.; Hassen, A. An elegant synthesis of highly functionalized 1,2,3-trisubstituted cyclopentanes. *Synthetic Comm.* **2013**, 43, 1594.

2/ **Saâdi, F.**; Jebali, K.; Arfaoui, A.; Hassen, A. An expedient approach for the synthesis of 1-alkyl-4-propionylpyrrolidin-2-ones. *Synthetic Comm.* **2014**, 44, 42.

- 3/ **Saâdi, F.**; Arfaoui, A.; Hassen, A. Michael addition of nitroalkanes to allyl nitrile derivative: Synthesis of 1,2,3-trifunctionalized cyclopentanes. *J. Soc. Chim. Tunisie* **2014**, 16, 29.
- 4/ **Saâdi, F.**; Ben Amor, F.; Arfaoui, A.; Driss, A.; Hassen, A. Synthesis and structural study of 3-cyano-2-(ethoxycarbonyl)-*N*-(4-fluorobenzyl)cyclopentan ammonium chloride C₁₆H₂₀ClFN₂O₂. *J. Soc. Chim. Tunisie* **2014**, 16, 89.
- 5/ Arfaoui, A.; **Saâdi, F.**; Ben Smida, Y.; Arfaoui, Y.; Nefzi, A.; AMRI, H. A Convenient synthesis of chiral 3,4-disubstituted pyrrolidin-2-ones. *Tetrahedron Lett.* **2015**, 56, 98.
- 6/ Jebali, K.; Arfaoui, A.; **Saâdi, F.**; Lebreton, J.; AMRI, H. Direct synthesis of 4-acetyl-1-alkyl-1*H*-pyrrol-2(5*H*)-ones from difunctionalized allyl bromide, *Synthetic Comm.* **2014**, 44, 3400.
- 7/ Arfaoui, A.; **Saâdi, F.**; Nefzi, A.; AMRI, H. An easy conversion of dimethyl α -(bromomethyl)fumarate into functionalized allyl ethers mediated by DABCO. *Synthetic Comm.* **2015**, 45, 2627.
- 8/ Arfaoui, A.; **Saâdi, F.**; Nefzi, A.; AMRI, H. An easy conversion of dimethyl α -(bromomethyl)fumarate into functionalized allyl ethers mediated by DABCO. *Synthetic Comm.* **2018**, 45, 2627.
- 9/ Elleuch, H.; Yaccoubi, F.; Ayari, S.; **Saadi, F.**; Novel nucleophilic addition S_N2'-S_N2' pathway: utilizing phosphonium salts as electrophilic agents for synthesizing new phosphine oxides of Morita-Baylis-Hillman (MBH) adducts. *Comptes Rendus Chimie*, **2024**, 27, 269.
- 10/ Walha, S.; Mhadhbi, N.; Ktari, N.; Aouaini, F.; Basha, B.; Wahbi, H.; Ben Salah, R.; **Saadi, F.**; Ben Ahmed, A.; Naïli, H. Antimicrobial dynamics and DNA nicking within 1, 3-propanediaminium dibromide and dichloride supramolecular frameworks: The critical role of strong hydrogen bonding and subtle molecular interactions. *J. Mol. Struct.* **2025**, 1325, 140984. <https://doi.org/10.1016/j.molstruc.2024.140984>.
- 11/ Kadri, I.; Ben Hassena, A.; Aouaini, F.; Basha, B.; Wahbi, H.; **Saadi, F.**; Abd El-Fattah, W.; Sánchez-Coronilla, A.; Naïli, H. Chemical preparation, thermal behavior, magnetic properties and biological activities of a new manganese chloride templated by piperazine (C₄H₁₂N₂)[MnCl₄(H₂O)₂]. *Inorg. Chim. Acta*, **2025**, 577, 122509. <https://doi.org/10.1016/j.ica.2024.122509>.
- 12/ Ferjani, H.; Lemine, O.M.; Ben Smida, Y.; Salah, N.; Kaouch, H.; **Saadi, F.**; Wahbi, H.; Almahnowi, Y.M.; Ramadan, R. Onwudiwe, D.C. *J. Mol. Struct.* Visible emission from a zero-dimensional tin-based organic-inorganic metal halide for luminescent devices: Experimental and theoretical investigation. *J. Mol. Struct.* **2025**, 1327, 141210. <https://doi.org/10.1016/j.molstruc.2024.141210>.
- 13/ Hosni, Z.; Achour, S.; **Saadi, F.**; Lin, J.; Sheng, J.; Al Qaraghuli, M. Specific surface area (SSA) of perovskites with uncertainty estimation approach. *Computational Materials Science* **2025**, 249, 113668. <https://doi.org/10.1016/j.commatsci.2025.113668>.
- 14/ Hosni, Z.; Achour, S.; Saadi, F.; Chen, Y.; Al Qaraghuli, M. Machine Learning-Driven Nanoparticle Toxicity. *Toxicity* **2025**. <https://dx.doi.org/10.2139/ssrn.5062020>.
- 15/ Hosni, Z.; Chen, X.; Achour, S.; **Saadi, F.** Predictive Modeling of Yield Sooting Index Using Machine Learning with Uncertainty Estimation. *ACS Omega* **2025**, 10, 25336. <https://doi.org/10.1021/acsomega.5c00042>.

16/ Alnoor, F.; Wahbi, H.; **Saadi, F.**; Daoub, R. A Mathematical Model for the Dengue Fever Epidemic with Vaccination and Treatment. *Eur. j. pure appl. math.* **2025**, *18*, 5815. <https://doi.org/10.29020/nybg.ejpam.v18i2.5815>.

17/ Daoub, R.; Misran, M.; Haous, A.; Ali, A.A; **Saadi, F.**; Hassan, E.A.; Osman, M.E. Investigation of Stability of Emulsions Containing two Gums from the Gummiferae Family and Combinations. *Egypt. J. Chem.* **2025**, *68*, 113. DOI: 10.21608/ejchem.2025.339393.10899.

ORAL COMMUNICATIONS

- **Fatma Saâdi**, Hassen Amri. A novel Strategy for the synthesis of 1,2,3-trifunctionalized cyclopentane. **JNC16**, 19-22 December 2010, Hammamet, Tunisia.
- **Fatma Saâdi**, Aïcha Arfaoui, Hassen Amri. Effective synthesis of functionalized pyrrolidin-2-ones. **JCO**, 12-15 September 2012, Hammamet, Tunisia.
- Aïcha Arfaoui, **Fatma Saâdi**, Hassen Amri. Selective methods for the synthesis of heterocycles Nitrogen-containing compounds from unsaturated 1,4-diester and 1,4-keto ester. **Tramech VII**, 27 - 30 November 2013, Rabat, Morocco.

COMMUNICATIONS BY POSTERS

- **Fatma Saâdi**, Aïcha Arfaoui, Hassen Amri. New Approach to the Synthesis of 1,2,3-trifunctionalized Cyclopentanes, **JNC17**, 16-19 December 2012, Monastir, Tunisia.
- **Fatma Saâdi**, Aïcha Arfaoui, Hassen Amri. A direct use of α -functionalized vinyl ketones in the synthesis of β -acylated pyrrolidin-2-ones. **JCO**, 12 -14 September 2014, Hammamet, Tunisia.
- Aïcha Arfaoui, **Fatma Saâdi**, Hassen Amri, An efficient synthetic route to highly functionalized allyl ethers from dimethyl Z-(bromomethyl)fumarate. **JCO**, 12 - 14 september 2014, Hammamet, Tunisia.

Ongoing Scientific Research

No	Project & Date	Institution	Investigator(s)
1	Asymptotic study of the generalized Kramers - Smoluchowski equation	Deanship of the Scientific Research in Northern Border University , Arar	Fatma Saadi , Samia Ouni, Ridha Selmi
2	A differential equations model for sustainable circular economy	Deanship of the Scientific Research in Northern Border University , Arar	Ridha Selmi Fatma Saadi

Membership of Professional

Tunisian Chemical Society (TCS), Tunisia, <http://www.sctunisie.org/3rdjcc/>.

Attended Training Courses

No	Name of course/organized by	Date
1	A training course entitled “Academic Advising”	2018
2	A training course entitled “Effective Teaching Strategies”	2019
3	Elsevier training course entitled “Uniqueness Science Direct platform”.	2021
4	Elsevier training course entitled “Science Direct: Personalize to Save Time and Accelerate Discovery”.	2021
5	Elsevier training course entitled “Exploration du Legacy Content sur Science Direct”.	2022

ADMINISTRATION AND COMMITTEES

No	Work and/or Activity	Date
1	Rapporteur of the Chemistry Department Council	2020-2023 in NBU
2	Examinations Committee at the Faculty of Sciences and Arts in Turaif / Member	2018- 2024 in NBU
3	Quality and academic accreditation committee, department of Chemistry / member	2019-2022 in NBU
4	Excuses committee, department of Chemistry / President	2021- 2023 in NBU
5	Advisory Board of the Department of Chemistry / member	2023-2024

Social, Cultural and Voluntary

No	Title Of Activity	Place	Time period
1	The chemistry of fruits and the secrets of their colors	The Second Secondary School in Turaif, KSA	2019
2	The importance of chemistry in the pharmaceutical industries	A virtual session via the Blackboard platform	2020

3	Introduction to the Chemistry Department	A virtual session via the Blackboard platform	2021
4	A field visit to a charitable organization	Turaif Charitable Association-KSA	2022
5	Chemical composition of fruits and vegetables	Twelfth Primary School in Turaif, KSA	2023
6	Visit to the Women's, Maternity, and Children's Hospital in Arar	Women's, Maternity, and Children's Hospital in Arar	2025

Foreign Language Skills

NO	Foreign Language	Level		
		Medium	Good	V. Good
1	Arabic			✓
2	French			✓
3	English		✓	✓