



Mohammad Alidmat

Work Experience

Teacher, Ministry of Education, Mafraq, Jordan
May 2011 – April 2023

Research assistant, School of Chemical Sciences, Universiti Sains Malaysia (Part-Time), Malaysia
January 2017 – February 2022

Lecturer, Chemistry Department, The University of Jordan, Amman, Jordan
October 2022 – February 2023

Assistant Professor, Jadara University, Irbid, Jordan
October 2023 – Present

Assistant Professor of organic chemistry at the faculty of Pharmacy
October 2023–September 2024

Head of the Chemistry Department at the College of Science
October 2024–present

Assistant Professor of Chemistry at the Faculty of Science
October 2024– Present

Assistant Dean for Quality Affairs, Faculty of Science, Jadara University, Irbid, Jordan.
October 2024– Present

Education

Bachelor of chemistry, Al-Bayt University, Jordan (Good)
September 2007 – August 2010

Master of chemistry, Al-Bayt University, Jordan (good)
September 2011 – January 2015

Master's research thesis : "Synthesis and Biological Activity of New 4,6–(Diheteroaromatic) pyrimidine–2–amines"

Doctor of philosophy in organic chemistry, School of Chemical Sciences, University Sains Malaysia **(April 2017 – June 2021)**

During the study period, I worked as a research assistant with the professor supervising my research thesis.

PhD'S research thesis : "SYNTHESIS, CHARACTERIZATION, CYTOTOXICITY AND DOCKING STUDIES OF NEW CHALCONE, PYRAZOLINE AND PYRIMIDINE DERIVATIVES"

References

Prof. Melati Khairuddean, School of Chemical Sciences, Universiti Sains Malaysia
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Prof. Mohammad M. Ibrahim, Associate Professor of Organic Chemistry, Al al-Bayt University
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Mafraq, Jordan

Date of birth: 29/01/1988

Links

[Google Scholar](#)

[Research Gate](#)

[Scopus](#)

Skills

Synthesis of

heterocyclic

Molecular docking

Experienced in using MS Office applications (Word, Excel, PowerPoint)

Excellent knowledge in the programs: Sciensfinder, ChemDraw, Endnote

Interpersonal skills

Leadership

Problem-solving

Communication

Time management

Creativity

Work ethic

Languages

Arabic

English

Publications

2026

Hirani, B. S., **Alidmat, M. M.**, Hasoun, L. Z., Gurubaxani, S. B., Sundookah, A., Ahmed, S., ... & Al-Lohedan, H. A. (2026). Green synthesis of tetrahydropyridine-3-carboxylate derivatives and evaluation of antimicrobial and antimalarial activities supported by molecular docking, POM studies, and drug-likeness analysis. *Scientific Reports*.

Wani, J. A., Dabre, K. V., **Alidmat, M. M.**, Dhoble, S. J., Sheikh, Z. A., Alam, M., ... & Bhat, A. R. (2026). Structural and Materials Chemistry of Eu^{3+} -Doped $\text{K}_2\text{SrP}_2\text{O}_7$ Phosphors: Photoluminescence and Thermoluminescence Studies via Judd-Ofelt and Crystal Field Analyses. *Journal of Molecular Structure*, 145673.

Alidmat, M. M. , Alshhab, A. and Alokour, M. (2026). Chalcones: Multifunctional Scaffolds Bridging Synthesis, Structure-Activity Relationships, and Therapeutic Applications: A Review. *Journal of Chemical Reviews*, 8(2), 296-321. doi: 10.48309/jcr.2026.547064.1503

Mehta, A. W., Patil, R. C., Bhat, A. R., **Alidmat, M. M.**, Alotaibi, S., Hadda, T. B., ... & Tataringa, G. (2025). Microwave-assisted synthesis of poly aromatic pyrimido [4, 5-b] quinoline derivatives: Design, in silico pharmacokinetics, molecular dynamics simulation, molecular docking, POM analysis, and in vitro antimicrobial screening. *Journal of Molecular Structure*, 144201.

Alidmat, M. M. , Dababneh, M. Fuad, Alshhab, A. , Alokour, M. , Al Saoud, H. A. , Waleed, R. and Younis, R. (2026). Synthesis, Characterization, Antioxidant, and Antimicrobial Evaluation of Novel (E)-4-(Substituted Benzylideneamino)phenol Derivatives Featuring Heteroaryl and Aryloxy Substituents. *Chemical Methodologies*, 10(2), 164-179. doi: 10.48309/chemm.2026.551489.2018

Alidmat, M. M. , Alshhab, A. , Alokour, M. , Younes, R. , Waleed, R. , Shdiefat, T. S. and Jaradat, H. M. (2026). Synthesis, Structural Elucidation, and Antioxidant Evaluation of ZnCl_2 and HgCl_2 Complexes with Substituted (E)-4(Benzylideneamino)Phenols. *Journal of Applied Organometallic Chemistry*, 6(1), 32-42. doi:10.48309/jaoc.2026.547898.1337

2025

Alidmat, M. M., Alhawarri, M. B., Al-Refai, M., Mansi, I. A., Al-Balas, Q., & Ibrahim, M. M. (2025). Synthesis, Characterization and Glyoxalase inhibitory activity of 4, 6-Diheteroarylpyrimidine-2-amine derivatives: In vitro and in silico studies. *Egyptian Journal of Chemistry*.

2024

- Ismail, N. Z., Khairuddean, M., **Alidmat, M. M.**, Abubakar, S., & Arsad, H. (2024). Investigating the potential of mono-chalcone compounds in targeting breast cancer receptors through network pharmacology, molecular docking, molecular dynamics simulation, antiproliferative effects, and gene expressions. 3 Biotech, 14(6), 1–23.

2023

- Ismail, N. Z., Khairuddean, M., **Alidmat, M. M.**, Abubakar, S., & Arsad, H. (2023). Cytotoxicity effect, network pharmacology, molecular docking, and molecular dynamics simulation of new mono-chalcone compounds for breast cancer.

2022

- Bakar, B. I., **Alidmat, M. M.**, Khairuddean, M., Ibrahim, W. N. A. W., Mun, K. W., Kamal, N. N. S. N. M., & Muhammad, M. (2023). Synthesis, characterization, cytotoxicity evaluation and molecular docking study of new bis-chalcone, fused-pyrimidine and fused-pyrazoline derivatives. Indian Journal of Chemistry (IJC), 62(3), 251–264.
- Othmani, T. E., **Alidmat, M. M.**, Khairuddean, M., & Wahyuningsih, T. D. (2022, September). Synthesis, Characterization and Molecular Docking of New Naphthalene-Based Chalcone and Pyrazoline Compounds. In Materials Science Forum (Vol. 1068, pp. 167–174). Trans Tech Publications Ltd.
- Bakar, B. I., **Alidmat, M. M.**, Khairuddean, M., & Wahyuningsih, T. D. (2022, September). Molecular Docking Study, Synthesis and Characterization of New Hybrid Anthracene-Thiophene Compounds with Chalcone and Pyridine Scaffolds. In Materials Science Forum (Vol. 1068, pp. 175–181). Trans Tech Publications Ltd.
- Al-Anazi, M., Khairuddean, M., Al-Najjar, B. O., **Alidmat, M. M.**, Kamal, N. N. S. N. M., & Muhamad, M. (2022). Synthesis, anticancer activity and docking studies of pyrazoline and pyrimidine derivatives as potential epidermal growth factor receptor (EGFR) inhibitors. Arabian Journal of Chemistry, 15(7), 103864.
- **Alidmat, M. M.**, Khairuddean, M., Kamal, N. N. S. N. M., Muhammad, M., Wahab, H. A., Althiabat, M. G., & Alhawarri, M. B. (2022). Synthesis, characterization, molecular docking and cytotoxicity evaluation of new thienyl chalcone derivatives against breast cancer cells. Syst. Rev. Pharm, 13(1), 1.

2021

- **Alidmat, M. M.**, Ning, T. Z., Khairuddean, M., Shayazi, N. H., Nik Mohammad Kamal, N. N. S., & Muhammad, M. (2021). Synthesis, Characterization, Cytotoxicity Study and Docking Studies of New Fused-pyrazoline Derivatives derived from Bis-Chalcones Against Breast Cancer cells. *Egyptian Journal of Chemistry*, 64(12), 6901–6911.
- **Alidmat, M. M.**, Khairuddean, M., Norman, N. M., Asri, A. N. M., Suhaimi, M. H. M., & Sharma, G. (2021). Synthesis, characterization, docking study and biological evaluation of new chalcone, pyrazoline, and pyrimidine derivatives as potent antimalarial compounds. *Arabian Journal of Chemistry*, 14(9), 103304.
- **Alidmat, M. M.**, Khairuddean, M., Salhimi, S. M., & Al-Amin, M. (2021). Docking studies, synthesis, characterization, and cytotoxicity activity of new bis-chalcones derivatives. *Biomedical Research and Therapy*, 8(4), 4294–4306.
- Al-Anazi, M., Khairuddean, M., Al-Najjar, B. O., **Alidmat, M. M.**, Kamal, N. N. S. N. M., Muhamad, M., & Hariono, M. (2021). EGFR Inhibitors and apoptosis inducers: design, docking, synthesis, and anticancer activity of novel tri-chalcone derivatives. *Systematic Reviews in Pharmacy*, 12(3), 809–820.

2020

- Salum, K. A., **Alidmat, M. M.**, Khairuldddean, M., Kamal, N. N. S. N. M., & Muhammad, M. (2020). Design, synthesis, characterization, and cytotoxicity activity evaluation of mono-chalcones and new pyrazolines derivatives. *Journal of Applied Pharmaceutical Science*, 10(8), 020–036.
- Khairuddean, M., Slaihim, M. M., **Alidmat, M. M.**, Al-Suede, F. S. R., Ahamed, M. B. K., Shah, A. M., & Majid, A. (2020). Synthesis, characterisation of some new schiff base for the piperidinium 4-amino-5-substituted-4h-1, 2, 4-triazole-3-thiolate, and their in-vitro anticancer activities. *Int. J. Natural Sci. Human Sciences*, 1(1), 48–58.