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Experienced researcher in analytical chemistry and medicinal plant chemistry with over 20 years in food analysis, mycotoxins, and bioactive compound extraction. Worked at the Industrial Research Center (2004–2005) and Libyan Biotechnology Research Center since 2005. Holds a Master's from Bangor University (2010) and a PhD from Metropolitan University, Serbia (2020). Awarded a patent in 2018 and published multiple scientific papers. Research focuses on isolating bioactive plant compounds, improving crop quality through agricultural treatments, studying biological activities for therapeutic applications, and promoting sustainable practices in natural resource conservation.

Research Interests

- Isolation and analysis of bioactive compounds from medicinal plants.
- Improving crop quality through innovative and sustainable agricultural treatments.
- Studying the biological activities of natural compounds for therapeutic and pharmaceutical applications.
- Developing efficient extraction and analytical techniques for bioactive compounds.
- Investigating mycotoxins and their impact on food safety.
- Promoting sustainable practices in natural resource conservation and environmental protection.
- Developing and applying modern analytical chemical methods in food and natural product analysis.

Publications

1. M. Elahmar; M.S. Baird; J.R. Al-Dulayymi: Can we find a use for chemicals from gorse, Conference- Plants as Providers of Fine Chemicals, School of Chemistry, Bangor University, Bangor, Gwynedd, LL57 2DW, August 2012.
2. M. Elahmar; M.S. Baird; J.R. Al-Dulayymi, Y. Zaitouni: Preparing Intermediates for the Synthesis of Mycolic Acids, VI National Conference of Biotechnology, University of Misurata, Libya, 2013.
3. S. A. Tweib; A. Y. A. Alhaj; M. A. Elahmar, F. A. Abdussamad; A. M. Fellah. Effective Treatment of Industrial Effluent by Using Biofilm Reactors American Journal of Biomedical Science and Engineering; 3(1): 1-7, 2017.
4. Hagir M Salih; Rabya A. Lahmer; M. Elahmar: Effect of addition of Tertiary Butyl Hydro Quinon (TBHQ) and Vitamin E antioxidants on the stability of sun flower and olein oil before and after frying. Journal of Biosciences and Medicines, 2017.
5. Hagir M Salih; Rabya A. Lahmer; M. Elahmar; Fouad Al-Nuaimi: Manufacture and production of a soft drink flavored from Dates treacle. A patent from the Industrial Research Center, Tripoli, Libya, 01/2021
6. A. A. Zawia, L. Nesseef, M. A. Elahmar, A. A. Andjelkovic, S. B Djurovic, D. M. Pavlovic, 2021. Fluorescence and chlorophyll content as indicators of the efficacy of plant extracts of Ambrosia artemisiifolia and Sorghum halepense in weed control. Journal of Fresenius Environmental Bulletin.. Volume 30– No. 01/2021 pages 707-715.
7. Mohamed Elahmar, Layth Nesseef, Alsadeh Zawia, Rabya Lahmer, Ana Andjelkovic, Sanja Djurovic, Danijela Pavlovic, 2022, the effect of plant extracts on shikimic pathway in weeds avena fatua bromus rigidus and convolvulus arvensis in wheat Volume 31- No. 02/2022 pages 2250-2258.
8. Hussein Habeeb Mustafa, Mohamed A. Ibrahim Elahmar, Rwoaa Tareq Hameed Mohammed Alsultan, Layth Nesseef and Gerhard F. Swiegers, 2022. Extraction and Identification of Effective Compounds from Natural Plants. Journal of Composites Science. 2022, 6, 149.
9. Ali F. Alynad, Nenad R. Trkulja, Sanja B. Đurović, Snežana M. Janković, Mohamed A. Elahmar, Layth Nesseef and Danijela M. Šikuljak, 2023, effects of fertilizer treatment on the polyphenol content in maize and velvetleaf competition Journal of Agricultural Sciences (Belgrade) Volume. 68, No. 4, 2023 Pages 389-401.