



## Dr. Rizgar Hassan Mohammad

**Mobile:** +964 (0)7504644851  
**Specialty:** Analytical chemistry  
**Education:** **PhD** in Analytical Chemistry, 2016, Bangor University, Bangor, North of Wales, UK.  
**MSc.** in Analytical Chemistry, 2008, Salahaddin University, Erbil, Iraq.  
**BSc.** in Chemistry, 2003, Salahaddin University, Erbil, Iraq.

**Work address:** General Sciences Department  
Faculty of Education - Soran University – Soran – Iraq.

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## PERSONAL INFORMATION

**Sex:** Male  
**Material status:** Married  
**Religion:** Muslim  
**Nationality:** Iraqi - Kurdish  
**Date and place of birth:** 1980 - Sulaymaniyah

**Language Skills:** My mother language is Kurdish.

### *Foreign language*

<u>Skills</u>	<u>Arabic</u>	<u>English</u>
Speaking	Good	Very good
Listening	Good	Very good
Writing	Very Good	Very good
Reading	Very good	Very good

## Computer Skills:

<u>Programs</u>	<u>Skill level</u>
Microsoft office (Word, Excel, Power point)	Very good
MestreNova (MNOVA)	Very good
Mendeley	Excellent

## Summary of Qualifications and Experiences:

1. I have got experiences in several areas in chemistry including: extraction and chemical separation methods, identification and quantification of compounds, structural elucidation of natural products using different analytical techniques.
2. I have also experienced in teaching 1<sup>st</sup> and 2<sup>nd</sup> stage students (about 19 years) at both Salahaddin and Soran universities (theoretical and practical). Subjects included general chemistry, inorganic chemistry and analytical chemistry. Also, I was participating as a member in teaching 2<sup>nd</sup> stage students during 2012-2015 at Bangor university. The following points summarise progressing of all my academic working:
  - I have been given a PhD certificate in August 2016 in Bangor University. So, I am currently a PhD holder in Analytical Chemistry, and restarted working as a Lecturer at Soran University in December 2016, I was taught 1<sup>st</sup> stage undergraduate students in General Sciences Department for a year (2016-2107). At the same time, I have been selected as a member to teach MSc students (Gas chromatography and separation methods) at Hawler Medical University – Chemistry department. I was worked as a Head of General Sciences Department in Faculty of Education – Soran University (February 2017 – October 2019). Currently, I am teaching undergraduate students (2<sup>nd</sup> stage, Analytical Chemistry, Theoretical + Practical) and supervising undergraduate research projects for the academic year 2024-2025.
  - I have got a PhD scholarship by Ministry of Higher Education and Scientific Research – Kurdistan Regional Government in 2011 under the program entitled Human Capacity Development Program (HCDP). I have had an intensive English course for almost a year in two centres: Centre for English Language Education (CELE) in Nottingham University (October 2011 – March 2012) and the English Language Centre for Overseas Students (ELCOS) in Bangor University (April 2012 – September 2012). Then I started PhD study at School of Chemistry - College of Physical and Applied Sciences - Bangor University. Period of PhD study: November 2012 – June 2016.
  - I was worked as an Assistant Lecturer at Soran University. Teaching 1<sup>st</sup> stage undergraduate students (General Chemistry) for one year (November 2008 – September 2009) at General Sciences Department – College of Basic Education - Salahaddin University. Then I was continued in teaching of the 2<sup>nd</sup> stage undergraduate students (Analytical Chemistry (Theoretical + Practical) for two more years (September 2009 – October 2011) at Soran University (General Sciences Department – College of Basic Education). During the same time, I was taught students practically in the lab in Soran Technical Institute for one year: Analytical Chemistry Experiments.
  - I have done my MSc in Chemistry Department – College of Education - Salahaddin University in the field of Analytical Chemistry (September 2005 - February 2008).
  - I was worked as an assistant researcher for two years (November 2003 – November 2005) at Chemistry Department – College of Science - Salahaddin

University. During this period, laboratory experiments have been demonstrated practically to undergraduate students including 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> stage students in the field of Analytical Chemistry (Volumetric analysis and Gravimetric analysis). At the same time, I also had responsibility in running of the library of the department.

- I supervised a MSc student (Dlgash Hamad Haruf) at Chemistry Department – Faculty of Science - Soran University (November 2021 - August 2023).

### Research Interests:

- Extraction, isolation and structural elucidation of natural products from medicinal plants using different techniques (NMR, MS, X-ray).
- Biological activity tests for plant extracts and isolated compounds.
- Chromatographic separation including preparative -TLC and flash chromatography.
- Quantification of compounds using HPLC technique.
- Flow-Injection Analysis (FIA).
- Spectrophotometric determination of compounds.

### Scientific membership:

- Kurdistan Chemists Syndicate, since 2004.

### Publications:

#### • Papers:

1. **Mohammad, R.H.**, Nur-e-Alam, M., Lahmann, M., Parveen, I., 2016. Isolation and characterisation of 13 pterosins and pterosides from bracken (*Pteridium aquilinum* (L.) Kuhn) rhizome. *Phytochemistry* 128, 82–94.
2. Fakhre, N., **Mohammad, R.H.**, 2016. Flow-injection spectrophotometric determination of chlorogenic acid in some natural samples. *Adv. Food Sci. Technol.* 3, 146–155.
3. Saadatian, M., **Mohammad, R.H.**, Jumaah, A.A. and Oagaz, J.A., 2022. Evaluation of Nutritional Value, Fatty Acids and Polyphenols Profiles of *Pyrus amygdaliformis* L. Grown in North-East Kurdistan Regional Government, Iraq. *Journal of Oleo Science*, 71(7), pp.985-990.
4. Maruf, D.H. and **Mohammad, R.H.**, 2024. Derivative Spectrophotometric Methods for Simultaneous Determination of Quercetin and Gentisic acid in *Capparis spinosa* L.. *Baghdad Science Journal*, 21(5), pp.1536-1536.

#### • Scientific Activities: (Conference, Workshop, Symposium)

1. Plants as Providers of Fine Chemicals. Organized by Bangor University, Bangor, North of Wales, UK (Conference, 29<sup>th</sup>-30<sup>th</sup> August 2012).
2. Plants as Providers of Fine Chemicals. Organized by Bangor University, Bangor, North of Wales, UK (Conference, 28<sup>th</sup>-29<sup>th</sup> August 2013)
3. 28<sup>th</sup> Royal Society of Chemistry Young Scientist Symposium 2013. Organised by RSC North West Trust Metrohm Quay Pharma, Glyndwr University, Wrexham, UK (19<sup>th</sup> September 2013).

4. Advances in GC IV. Organised by Royal Society of Chemistry, Runcorn, Cheshire, UK (Conference, 30<sup>th</sup> October 2013).
5. 29<sup>th</sup> Young Scientist Symposium. Organised by RSC North West Trust Metrohm Quay Pharma, Bangor, North of Wales, UK (2<sup>nd</sup> July 2014).
6. International Mother Language Day Symposium, Faculty of Education-Soran University, Soran, (22<sup>nd</sup> February 2017).
7. Local SWOT analysis workshop, Faculty of Education-Soran University, Soran, (28<sup>th</sup> March 2017).

### **Awards & Grants:**

Scholarship: The Human Capacity Development Program (HCDP) in Higher Education Higher and Scientific Research in Kurdistan, October 2011.

### **Thesis:**

Rizgar H. Mohammad: *Pterosins and Pterosides in Bracken (Pteridium aquilinum (L.) Kuhn)*, 30/06/2016, Degree, **PhD**, Supervisor: Dr Vera Thoss.

Rizgar H. Mohammad: *Batch and flow-injection spectrophotometric determination of chlorogenic acid and their applications*, 14/02/2008, Degree, **MSc**, Supervisor: Dr Nabil A. Fakhri.