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Education:

2009-2013 The University of Manchester UK

Ph D degree in Chemistry

- My research is based on the environmental radiochemistry, especially in the field of sorption of radionuclides onto clay minerals such as montmorillonite, bentonite, kaolinite and the diatomite at different parameters: pH, ionic strength, metal ion concentration, sorbent amount and humic acid fraction concentration.
- My research includes also, uptake of some di- and tri-valent metal ions by such minerals.
- Many techniques were utilized to analyse the samples and characterise the minerals such as gamma ray spectrometry, UV/Visible spectroscopy, FTIR, XRD, XRF, TG/DTA and SEM.

1995-2001 The University of Tripoli Libya

M Sc Analytical Chemistry (very good)

- On the synthesis and characterisation of inorganic ion-exchangers and their application. I was able to prepare some of crystalline and pellicular products of: γ -hafnium phosphate, γ -hafnium phosphate phosphite, γ -titanium phosphate γ -titanium phosphate phosphite, α -hafnium and zirconium phosphate phosphite etc.
- Registered a patent on the synthesis of pellicular (thin films) of γ -zirconium and hafnium phosphate phosphite membranes.

1979-1983 The University of Tripoli Libya

B Sc Chemistry (good)

Work and Experience:

2020 till present

- **Head of Chemistry Department Faculty of Education, University of Tripoli Libya.**

December 2015 till now, University of Tripoli

- University staff member, professor assistant at the faculty of education. Teaching analytical chemistry and nuclear chemistry.

2013-2015 Zawia University

- University staff member, lecturer at the faculty of education. Teaching Analytical Chemistry and Nuclear Chemistry.

2013-2015 The University of Tripoli

- Part time lecturer at faculty of Education, Chemistry Department, I taught Analytical Chemistry (I) and (IV) in spring semester 2013/2014 and Analytical Chemistry (III) and (IV) in autumn semester 2014/2015. Analytical Chemistry (III), Analytical Chemistry (IV) and Nuclear Chemistry 2015/2016.

2008-2012 The Libyan School in Manchester

- Part time chemistry teacher in the Libyan high school in Manchester for the years 1-3.

2005–2008 Zawia University

- University staff member, lecturer and head of chemistry department in the faculty of education (2006/08).

2006 – 2007 Industrial Research Centre

- Member of the administration committee.

2004-2005 Al-Zaroug company

- Private work in a chemical and laboratory appliances company, Tripoli Libya.

2002-2008 High institute of Comprehensive Occupations, Garabolli Libya

- Part time lecturer in analytical chemistry.

2002-2008 University of Al-Mergeb, Msalata Libya

- Part time lecturer in analytical and Industrial chemistry.

2002-2004 Industrial Research Centre

- Laboratories Manager.

1988-2001 Industrial Research Centre

- Head of Chemistry Department.

1984- 1988 Industrial Research Centre

- Research worker and quality control chemist, at Industrial Research Centre, Tripoli Libya (first job).

Courses I have been teaching:

- General chemistry, 2001-2002.
- Analytical Chemistry-I, (Fundamentals, Volumetric & gravimetric analysis), 2002-2008.
- Analytical Chemistry-II, (Electrochemistry, Principles of spectroscopy, Separation & principles of chromatography, 2001-2006, 2013-2014.
- Industrial Chemistry, 2004-2005.
- Instrumental chemistry, 2005-2006 & 2007-2008, 2013-2016.
- All chemistry subjects in secondary school in Libyan high school in Manchester during the period 2008-2012.
- Nuclear chemistry 2013-2016.

Graduation projects I had supervised:

During the time I'm teaching in the faculty of education at the University of Tripoli, I have supervised more than 10 BSc. graduations. I'm also supervising three MSc. Projects at the Libyan Academy of Higher Studies. One of these has finished, and the student is waiting for the examiners regulation to evaluate. The other two are in the writing stage and supposed to be finished by the end of 2024 or in the first quarter of 2025.

Training Courses:

- Atomic Absorption Spectroscopy, one week at Bristol UK 1987.
- Atomic Absorption Spectroscopy, three months in Karachi Pakistan, 1990.
- Inductively Coupled Plasma, three weeks in Hungary 1998.
- Inductively Coupled Plasma, one week in Germany 1999.
- Inductively Coupled Plasma-Mass Spectrometry, 4 weeks in Hungary 2001.
- Inductively Coupled Plasma-Mass Spectrometry, 4 weeks in France 2001.

Experiences:

- (a) Good operator of the following Instruments:
- Atomic Absorption Spectroscopy, PYE UNICAN & SHIMADZU.
 - Inductively Coupled Plasma, SPECTRO.
 - Inductively Coupled Plasma-Mass Spectrometry, VARIAN.
 - Thermal Analyzer, DU PONT & SEIKO.
 - Gas Liquid Chromatography, PYE UNICAM.
- (b) Have some experience regarding the following instruments:
- X-ray Diffraction.
 - X-ray fluorescence.

Talks and Conferences presentations:

2013 Egypt

- A poster presentation at Isis Hotel, Luxor-Egypt, 16-19 February 2013.

2-7/09/2012 ATALANTE 2012 France

- Oral presentation at the ATALANTE 2012 conference, Le Corum, Montpellier France.

31/07/2012 University of Newcastle

- A poster presentation at the postgraduate Chemistry Committee Conference.

2009-2012 University of Manchester

- Three talks presenting my research work on the sorption of radionuclides and heavy metal onto clay minerals.

14-17/04/2003 University of Mansoura Egypt

- Poster presentation at 7th International Conference on Chemistry and its role in Development held in Sharm El-Sheikh.

14-16/10/2002 Manama Bahrin

- Two poster presentations at 5th International Conference & Exhibition on Chemistry in Industry.

Publications:

- **Ragiab A. M. Issa**, Hana B. AlHanash, Mona M. Abdulsalam, Amar A. Tekalli, Laila K. Ben Hamed, and Suha A. Ben Omran, Study on Natural Diatomite as an Adsorbent for Uranyl (VI) ions, Using Spectrophotometric Method, SEBHA UNIVERSITY JOURNAL OF PURE & APPLIED SCIENCES VOL.23 NO. 1 2024, DOI: 10.51984/JOPAS.V23I1.2910.
- **Ragiab A. M. Issa**, Ayoub O. El Amari, Hana B. AlHanash, Husein M. Etmimi, Removal of uranium (VI) ion from aqueous solution using kaolinite, <https://doi.org/10.1016/j.kjs.2023.03.010>.
- Hana B. AlHanash, **Ragiab A M Issa**, and Heba A AlJabo, (2022) Adsorption of UO_2^{2+} on Fibrous Cerium Phosphate and its Alanine and Arginine Intercalated Materials Academic Journal of Chemistry, ISSN(e): 2519-7045, ISSN(p): 2521-0211, Vol. 7, Issue. 4, pp: 47-54, 2022
- **Ragiab A. M. Issa**, Abtisam S. A. Aljarmi, Faraj A. Almoudi, Hana B. AlHanash*, Mabroukah M. Hamzah, Ruqayah M. A. Kesheem and Nurdeen M. ElKemjaje, Assessment of some heavy metals in roadside soil samples in Zawia city, Libya, Malaysian Journal of Chemistry, 2020, Vol. 22(4), 110-116
- **Ragiab A. M. Issa**, Aborawi M. Elgornazi, Abubaker A. B. Atrog and Imad M. Aghila, Determination of Some Trace Elements in Different Vinegar Samples from Libyan Market using Inductively Coupled Plasma Atomic Emission Spectrometer ICP-AES, Journal of Faculties of Education, The Nineteenth issue-November 2020.
- H.B. Alhanash, N.A. Edriss, S.M. Ksheid and **R.A.M. Issa**, Residual Bromate Assessment in Bread Samples from Tajoura city bakeries, Liby, Academic Journal of Research and Scientific Publishing | Vol 2 | Issue 13, Publication Date: 5-5-2020, ISSN: 2706-6495.
- **Ragiab A. M. Issa**, Ezzudeen Beshlou*, Hana B. AlHanash, Najwa S.A. Salem, Faraj A. Almoudi and Mustafa A. A. Benamer, Spectrophotometric determination of iron in dietary supplements in Libyan market, Academic Journal of Research and Scientific Publishing, Vol 1 Issue 12, Publication Date: 5-4-2020 ISSN: 2706-6495
- The Use of Fourier-Transform Infrared Spectroscopy to Assess Libyan Virgin Olive Oil Adulteration with Corn and Sun Flower Oils, Hana B. AlHanash*, Rabea G. Elhabishi, Wael Elhrari and **Ragiab A. M. Issa**; Academic Journal of Chemistry; Vol. 3, Issue. 5, pp: 40-45, 2018
- Determination of lead in human blood and serum and the relationship among its exposures, Zawia. Libya, Mustfa A. Bin Aamer, Alia A. AlArabi, Farag A. Almudi, Mabrouka M. Hamza and **Ragiab A. M. Issa**, Journal of Faculties of education, vol. 10, February (2018) 33-40.
- **Ragiab. A. M. Issa*** and Nick. D. Bryan, Sorption of humic acid and europium onto montmorillonite as a function of pH, ionic strength and metal ion initial concentration, ATALANTE 2012 conference, 2-7 September 2012, Le Corum, Montpellier, France. Oral presentation.
- **Ragiab. A. M. Issa*** and Nick. D. Bryan, Competitive uptake of selected metal ions onto montmorillonite, Chemistry Postgraduate Committee Conference, Newcastle University, Bedson Building 31st July 2012. Poster presentation.
- An investigation on Libyan olive oil in the western region, **Ragiab A. M. Issa**, Hana B. AlHanash, Thuraya E. Kaakul, Rowida Alkout and Hanadi Alkmishi, Mor. J. Chem. 5 N°4 (2017) 652-658.

- Reversibility in radionuclide/bentonite bulk and colloidal ternary systems, Nick Sherriff, **Ragiab Issa**, Katherine Morris, Francis Livens, Sarah Heath and Nick Bryan, Mineralogical Magazine, November 2015, Vol. 79(6), pp. 1307–1315.
- Competitive sorption of some di- and tri-valent metal ions by Libyan kaolinite and its modified, phases, **Ragiab. A. M. ISSA**, Nick D. BRYAN and Hana B. AlHanash, The Journal of Faculty of Education, Zawia University (2015).
- F.Z. Shtewi, **R.A. Mokhtar**, A. Al-Zawik, S. Karshman (2009) the use of kinetic methods for the determination of ultra-trace amount of iodide in water, Arabian Journal of Chemistry (2009) 2, 19–24.
- **R. A. Mokhtar***, F. Z. Shtewi, A. Al-Zawik, S. Karsheman, The Determination of Ultra-trace Amounts of N,N-Diethylhydroxylamine Residues in Water Used for High-Pressure, High-Temperature Steam Turbines, Jordan Journal of Chemistry Vol. 3 No.3, 2008, pp. 305-319.
- S. K. Shakshook, M. F. Farhat , **R. A. Mokhtar Issa** and H. B. El-Agaili, Intercalation of Benzimidazole, Indole, 1,10-Phenanthroline, 2,2'-and 4,4'-Bipyridine into Crystalline Cerium Phosphate, 12th Ibn Sina International Conference on Pure and Applied Heterocyclic chemistry, Isis Hotel, Luxor-Egypt, 16-19 February 2013. Poster presentation.
- Thermal Behavior and XRD of Li, Na, K, and Cs forms of γ -Titanium phosphate and γ -hafnium phosphate, Held in 5th International Conference & Exhibition on Chemistry in Industry, Manama Bahrain, October 14-16, 2002.
- Studies on the Adsorption of some lanthanides and UO_2^{2+} on fibrous cerium phosphate and its 1,10-phenanthroline product held in 4th Arabic Conference on Peaceful Use of Nuclear Energy, Tunisia, 16-20, November 1998.
- Inorganic Ion-Exchange membranes of Insoluble acid Salts of tetravalent metals, [Preparation of pellicles zirconium phosphate, hafnium phosphate, zirconium phosphate-phosphite and hafnium phosphate-phosphite via Intercalation-deintercalation of Arginine in to their crystalline materials], Held at 5th International Conference in Inorganic membranes, Nagoya, Japan 22-26, June 1998.
- Inorganic Ion Exchange membranes of Insoluble Acid Salts of tetravalent metals, pellicular of γ -hafnium phosphate and γ -hafnium phosphite. Presented at the 4th International Conference and Industrial Exhibition on Ion Exchange Processes in Wrexham, Clwyd, UK, 10-14 September 1995.
- Preparation of γ -Zirconium phosphate-phosphite, presented in 35th IUPAC congress, 14-19 August 1995, Istanbul, Turkey.
- S. K. Shakshooki, R. A. Mokhtar, R. H. Idris, L. O. Morgom and H. B. El-Hanash, *Patent No.* 352, 22.10.1994, Industrial Research Center.
- Some chemical Properties of mineral water in Libya (presented in the 1st water conference, Benghazi Libya 1995).
- The use of palm bead oil in the production of soap (presented in the 3rd Arabic conference of soap and detergent manufacturer, June 1989 and was also registered as a **patent** in (IRC).
- Thermal Behavior of pellicular γ -hafnium phosphate and its alkali Metal form products, Held in 5th International Conference & Exhibition on Chemistry in Industry, Manama Bahrain, October 14-16, 2002.
- Sadek K. Shakshooki *, Ramadan M. El-Mahdwi, Mohamed. T. Mehabis, Mahmoud A. Elrais, Salwa. O. Etter and **Ragiab A. Mokhtar** (2007) Uptake of Some Divalent Metal Ions Layered α -VOP₄.2.5H₂O and its 1,10-Phenanthroline, 2,2'-Bipyridyl and 4,4'-Bipyridyl Intercalated Products, Jordan Journal of Chemistry Vol. 1, pp 45-52.

- S. K. SURI AND RAGIAB A. MOKHTAR (1991) Material Characterization by combined Thermovolataic Detection (TVD) and Thermal analysis (DTA) techniques, Thermochemica acta 176, 285-291.
- Registered a patent on the manufacture of soap from Libyan palm oil.

Other skills:

IT

- PHREEQC speciation modelling, Excel mathematical sheet modelling and general computing (Microsoft word, excel and power point).

Languages

- Arabic (native) and English (fluent).

Interests

- Enjoy reading, writing poems, cycling, playing cards, camping, picnics and cooking. Good experience in farming, planting and irrigations. Also interesting to do my own house works such as electricity, plumbing and painting and repairing the small problems of my car.

منشورات باللغة العربية

- د. رجب علي المختار عيسى و أ.د. فرج زايد الشتيوي، أسس الكيمياء التحليلية العملية لطلاب المرحلة الجامعية (كتاب)، الطبعة الأولى، رقم الإيداع 2019-604 دار الكتاب الوطنية -بنغازي / ليبيا، -15-9959-861-978 ISBN: 3 ردمك.
- عزالدين بشلوع، رجب علي مختار عيسى، إيناس الفقيه، تقدير تركيز فيتامين C في عينات من أصناف البرتقال والليمون بالطريقة الحجمية، المجلة العربية للغذاء والتغذية، السنة الحادية والعشرون – العدد التاسع والأربعون – 2021.