CURRICULUM VITA

Professor Fawwaz I. Khalili **ألاستاذ الدكتور فواز عزت الخليلي**

Born in 26. 12. 1954 Amman-Jordan.

Status Married with three children, a boy and two girls.

1960-1972 Elementary, preparatory and secondary Education at Derar School and King Hussein College.

1972 General Secondary (High School) Certificate Examination.

1972-1976 Bachelor of Science in Chemistry from the University of Jordan/Amman.

1975 Worked as research assistant on oil shale with Dr. R. Haddadin.

1976 Worked as research assistant in inorganic complexes with Prof. A. Seyam.

June 1976-April 1977 Assistant Manager of the Chemical Division at M. Sukhtian Co.

April 1977 - July 1977 Sales manager at the chemical industry company

July 1977- Sept 1979

Fellowship in Inorganic and Radiochemistry from the **International Atomic Energy Agency** at the Florida State University chemistry department, Tallahassee, Fl. U.S.A.

Sept 1979 PhD Research assistantship from the Florida

- March 1982 State University.

March 1982 PhD : The nature of Inner and Outer Sphere Complexes

Sept 1982 Assistant Professor, University of Jordan/Chemistry Department.

Jan 1989 Promotion to Associate Professor.

Sept 1991-Aug 1992 Sabbatical leave at Florida State University/Chemistry Department with Professor G. R. Choppin.

Nov 1994 Promotion to Full Professor.

Sept 1996 – August 2000 Chairman of the Science Department and Prof. of Inorganic Chemistry at Sohar College for Teachers, Ministry of Higher Education Sohar, Sultanate of Oman.

Sept 2000 Back at the University of Jordan.

Sept 2005– Sept 2007 Chairman of the Chemistry Department/ University of Jordan.

Sept 2007- Sept 2011 Back as Professor of Chemistry /Chemistry Department/ University of Jordan.

2008 – Head of accreditation committee with ministry of higher education (Accreditation Agency) for the following universities: Al- Hussien University, Al Tafeelah Technical University, Jerash private University and Israa University.

Sept 2011 – Sept 2013 Vice dean of Science.

Head of

1- Promotion committee

2- Tenders committee
3- Graduate studies committee
4- Teaching plans committee
5- Scientific research committee

Sept 2013 - Now	Back as Professor of Chemistry /Chemistry Department/ University of Jordan.
Sept 2013 – 2021	Member of Board of Trustees in Huitien Community College, Amman – Jordan.
Sept 2015– August 2016	On sabbatical leave at the chemistry department- Al albayt University, Al mafraq- Jordan.
April 2017- April 2020	Member of the Jordan Journal of Chemistry editorial board.

Specialization :	Inorganic, Nuclear and Environmental Chemistry.
Research interests:	Inorganic Complexes, Solvent Extraction of Radioactive Elements, Humic Acid and its Environmental Behavior, Geopolymers, Nanomaterials and Chelating polymers with metal ions.

Publications

1. Determination of Bromide in Jordanian Table Salt by the
   Chloramine-T- Method.
   Dirasat, 13, 179, 1986.
   F. Khalili and M.Fayyad
2. Preparation and Antimicrobial Activity of Glyoximes.
   Dirasat, 13, 185, 1986.
   F. Khalili and A.Mahasneh.
3. Humic and Fulvic Acids from Several Locations in Jordan.
   F. Khalili Dirasat, 14, 151, 1987.
4. X-ray Diffraction studies on Jordanian Humic and Fulvic Acids.
   Dirasat, 14, 163, 1987.
   F. Khalili and H. Ajjouri
5. The Nature of the Azraq Oasis Humic Acid.
   Journal of the Iraqi Chemical Society. 13, 71, 1988
   F. Khalili.
6. Preparation and complexation of 3,3'-bis(1,2,4- Δ^2-oxathiazoline) with some Transition metals.
   Synth and React in Inorg and met-Org Chem. 18, 919, 1988.
   N. Sayyed and F. Khalili.
7. Nature of U(VI) complexes with halates and haloacetates.
   Inorg. Chimica. Acta. 143, 1988.
   F. Khalili, G. R. Choppin and E. Rizkalla.
8. Some Features and Antimicrobial activity of humic acid Isolated from Jordanian Soils.
   Journal of Biological Sciences Research. 20, 255, 1989.
   A.Mahasneh and F. Khalili.
9. Synthesis and Characterisation of some Lanthanide Chloride
   Complexes of Pyridinaldazine and Pyrrolaldazine Schiff Bases.
   Polyhedron. 8, 21, 1989.
   M.Dawod, F. Khalili, and A. Seyam.

10. Effect of dichloroglyoxime and dimethylglyoxime on the acellular slime mold physarum polycephalum.
    The Arab Gulf Journal of Scientific Research. 7. 129, 1989.
    Z.Shraideh and F. Khalili.
11. Effect of humic acid on the oscillatory contractions in protoplasmic strands of physarum polycephalum.
    Microbio letters. 42, 73, 1989.
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12. Preparation of dipotassium 3,3'-bis(1,2,4-oxadiazole-5(4H) onate) and its coordination behaviour with Mn(II), Co(II), Ni(II), and Zn(II).
    Synth and React in Inorg and met-Org Chem. 20, 425, 1990.
    N. Sayyed and F. Khalili.
13. Isolation and characterization of humic acid from Jordanian Oil Shale.
    Fuel. 69 (2): 151, 1990
    F. Khalili.
14. Preparation and Characterization of selected metal-humate complexes.
    Soil Science. 150 (3), 565, 1990.
    F. Khalili.
15. Synthesis and Characterisation of some actinide complexes of
    pyridin-, pyrrol-, furan- and thiophenealdazine.
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    M. Dawod, F. Khalili and A. Seyam.
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17. The nature of calcium and thorium complexation by halate ligands.
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    G. Choppin, F. Khalili and E. Rizkalla.
18. Effects of dichloroglyoxime on isolated Guinea-Pig smooth muscle and atrium.

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19. Preliminary leaching study on the Jordanian oil shale.
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M. Alawi and F. Khalili.

20. Lead (II) complexation by Azraq humic acid.
Mutah Journal for Research and Studies (Jordan). 8, 121, 1993.
F. Khalili.

21. Extraction and spectrophotometric determination of Nd(III), Th(IV) and U(VI) in synthetic brine using Chlorophosphonazo III.
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22. Determination of trihalomethanes concentration produced through the chlorination of water as a function of its humic acid content.
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F. Khalili and A. A. Issa.

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48. Preparation and Characterization of Poly(bisphenol A oxalate) and Studying its Chelating Behavior Towards Some Metal Ions.
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49. Synthesis, Characterization and Solvent Extraction Properties of New Thiophene Based Trifluoromethyl-Substituted β-Diketones for Thorium (IV) and Uranium (VI) Ions.
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    Rosli**.**
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56. Adsorption of Lead, Zinc,and Cadmium Ions Polyphosphate- modified Kaolinite Clay.
    Mohammad W. Amer, Fawwaz Khalili, and Akl M. Awwad.
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57. Adsorption of Zn(II), Pb(II), Cr(III) and Mn(II) from water by Jordanian bentonite
    Jameel Sulieman Al – Jariri and Fawwaz Khalili.
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58. The Effect of Ionic Strength On the Extraction Of Thorium (IV) From Nitrate Solution By Didodecylphosphoric Acid (HDDPA).
    Mohammad A. Bayyari, Mazen K. Nazal, Fawwaz I. Khalili.
    Journal of Saudi Chemical Society 14, 311–315, 2010.

59. A Study on using Date Palm Fibers and Leaf Base of Palm as Adsorbents for Pb(II) from Its Aqueous Solution.
A M Muhsen Al- Haidery, F H Zanganah, S R F Al-Azawi, F I Khalili and A H Al-Dujaili.
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60. Preparation and Characterization of Poly(2,2-dimethyl-1,3-propylene oxalate) Polymer and Studying its Metal Uptake Behavior Toward Pb(II), Cd(II) and Hg(II) Ions.
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63. Adsorption of Ce(III), Gd(III) and Yb(III) Onto Azraq Humic Acid
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Ivan H. R. Tomi , Maha T. S. Al-Mahdawi , Isam A. Latif, Fawwaz I. Khalili, and Ammar H. Al-Dujaili

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A study on Using Date Palm Fibers and Leaf Base of Palm as Adsorbents for Pb(II) ions from its aqueous Solution
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66. Removal of Nitrate ions from Water Using Jordanian Lemon Wood and Olive Seeds Charcoal.
Mohammed M. Al-Jboor and Fawwaz I. Khalili
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Ahmad K. Mohammad and Fawwaz I. Khalili
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69. Development of functional geopolymers for water purification, and construction purposes.
M. Alshaaera, B. El-Eswed, R.I. Yousef, F. Khalili, H. Rahier

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70. Adsorption of Cu(II), Ni(II), Zn(II), Cd(II) And Pb(II) Onto Kaolin/Zeolite Based- Geopolymers.
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Fawwaz Khalili and Ghadeer albanna
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Basel M. Jafar, Imad Hamadneh, Fawwaz I. Khalili, and Ammar H. Al-Dujaili
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80. Synthesis and Characterization of New Polyamides Containing Symmetrical and Unsymmetrical Thiadiazole Rings.
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81. Sorption of Pb (II) Ions by Modified Kaolinite with Humic Acids
Khansaa Al-Essa and Fawwaz I. Khalili
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Mazen. K. Nazal, Mohammed. A. Albayyari , Fawwaz. I. Khalili and Ihsan Al Soudani

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85. Removal of Pb(II), Cd(II) and Zn(II) ions using a new poly(1,3-cyclohexylene oxalate) polymer.

Fawwaz I. Khalili, Faten Alruqub, and Bassam Swieleh

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Frezah J. Muhana, Bassam I. El-Eswed, Fawwaz I. Khalili

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87. Removal of U(VI) and Th(IV) from aqueous solutions by organically modified diatomaceous earth: Evaluation of equilibrium, kinetic and thermodynamic data.

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Abdullah Al-Mashqbeh, Salam Abuali, Bassam El-Eswed, Fawwaz I. Khalili

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89. Immobilization of organic dyes in geopolymeric cementing material

AbdullahAl-Mashaqbeh,BassamEl-Eswed, RaidBanat, Fawwaz I.Khalili

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Khansaa Al-Essa and Fawwaz I. Khalili

Science Journal of Chemistry 6(1), 1-10, 2018

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Khansaa Al-Essa and Fawwaz I. Khalili

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Aisha N Al-Blawi, Fawwaz I Khalili and Bassam A Sweileh

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95. Salvadora Persica Branches Biomass adsorbent for Removal of Uranium (VI) and Thorium (IV) from Aqueous Solution: Kinetics and Thermodynamics Study

Mazen K. Nazal , Mohammad Al-Bayyari , and Fawwaz I. Khalili

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Jafar I. Abdelghani, Fawwaz I. Khalili, Yahya S. Al-Degs, Eyad S. Abu-Nameh

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Imad Hamadneh. Abdulmonem Alatawi, Ruba Zalloum, Rula Albuqain, Shorouq Alsotari, Fawwaz I. Khalili, Ammar H. Al-Dujaili

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98. Adsorption of Cu(II), Ni(II) and Zn(II) ions by nano kaolinite: Thermodynamics and kinetics studies

Aisha Muthana Alasadi, Fawwaz Izzat Khaili and Akl Mohammad Awwad

Chemistry International 5(4), 258-268, 2019

99. Synthesis, Characterization of Poly(1,4–cyclohexanedimethylene oxalate) and the Study of its Metal Uptake Behavior Towards Pb(II), Zn(II), and Cd(II) Ions

Yousef A. Al-Dalahmeh, Fawwaz I. Khalili, Bassam A. Sweileh

Journal of the Chemical Society of Pakistan, 41(3), 421-436, 2019

100. Synthesis, Characterization and Solvent Extraction Properties of New Lipophlic Thiophene-Based Trifluoromethyl-Substituted b-Diketone Ligands for Uranium (VI) and Thorium (IV) Ions. Evidence for synergism

Samir A. Al-Taweel; Elham A. AL-Qudah ; Salah A. AL-Trawneh and Fawwaz I. Khalili.

Jordan Journal of Chemistry, 14(4), 157-167, 2019

101. Modification of silica nanoparticles with cysteine or methionine amino acids for the removal of uranium(VI) from aqueous solution

Latifa Ismail, Fawwaz Khalili, Faten M. Abu Orabi.)

Silicon, 12:2647–2661, 2020

102. Manganese ferrite ($MnFe_2O_4$) as potential nanosorbent for adsorption of uranium(VI) and thorium(IV).

Marwa Alaqarbeh, Fawwaz I. Khalili, Olfa Kanoun

Journal of Radioanalytical and Nuclear Chemistry, 323, 515–537, 2020

103. Thorium(IV) removal and recovery from aqueous solutions using modified silica nanoparticles with cysteine or methionine amino acids

Latifa S. Ismail, Fawwaz I. Khalili, Faten M. Abu Orabi

Desalination and Water Treatment, 196, 161-176, 2020

104. Removal of lead ions from aqueous solutions by insolubilized Iraqi humic acid

Hutaf M. Baker, Fawwaz I. Khalili, Baraa Ibraheem Abass Aldulaimy

Desalination and Water Treatment, 206:286-296, 2020

105. Synthesis and Characterization of Mesoporous Silica Carrier Releasing Valsartan

F. Muhana, R. Abu-huwaij, N. Khalaf, F. Khalili and N. Shalan

Asian Journal of Chemistry, 32(11), 2927-2933, 2020

106. Removal of Pb(II), Zn(II), Sn(II) and Cu(II) Ions from Aqueous Solutions by Linear Alternating Poly(4,4'-biphenol oxalate) Oligomer

Fawwaz I. Khalili, Bassam A. Sweileh, Rana S. Massad and Eshraq Z. Aljamal

Jordan Journal of Chemistry, 15(2), 73-85, 2020

107. Removal of thorium (IV) ions from aqueous solution by polyacrylamide-based monoliths: Equilibrium, kinetic and thermodynamic studies.

Ayat Allah Al-Massaedh and Fawwaz I. Khalili

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108. Biochar Derived from Salvadora Persica Branches Biomass as Low-cost Adsorbent for Removal of Uranium (VI) and Thorium (IV) from Water

Mohammad Albayari, Mazen K. Nazal, Fawwaz I. Khalili, Norazzizi Nordin, Rohana Adnan

Journal of Radioanalytical and Nuclear Chemistry, 327, 1201-1217, 2021

109. Synthesis and characterization of mesoporous silica and its application as drug delivery system for glimepiride.

F. Muhana, N. Shalan, F. Al-Akayleh, H. Mutti, F. Khalili, D. Marzouqa, I.

Al-Ani, H. Al-Khatib

Pharmazie 76, 1309, 1-7, 2021

110. Biosorption of Neodymium(III) and Cerium(III) ions by Loquat leave (Eriobotrya japonica) kinetics and thermodynamic studies.

Latifa S. Ismail and Fawwaz I. Khalili

Desalination and Water Treatment 229, 291–301, 2021

111. Removal of heavy metal ions from aqueous solution by anionic polyacrylamide- based monolith: equilibrium, kinetic and thermodynamic studies.

Ayat Allah Al-Massaedh, Fawwaz I. Khalili

Desalination and Water Treatment 228, 297–311, 2021

112. Removal of Uranium(VI) and Thorium(IV) from aqueous solution by Hedera Helix leaves: Kinetics and thermodynamic studies

Faten M. Abu Orabi, Fawwaz I. Khalili, Latifa S. Ismail

Desalination and Water Treatment, 237, 202-213, 2021

113. Enhanced method for the removal of U (VI) and Th (IV) from aqueous solutions using chemically modified kaolinite.

Mohammad W. Amer, Jameel S. Aljariri Alhesan, Fawwaz I Khalili

International Journal of Environmental Analytical Chemistry (GEAC), 2021. https://doi.org/10.1080/03067319.2021.2010726

114. Adsorption of Cd(II), Pb(II) and Ni(II) onto natural sediments from the Gulf of Aqaba – Jordan.

Eshraq Aljamal, Mohmmed Rasheed, Fawwaz I. Khalili

International Journal of Environmental Analytical Chemistry (GEAC), 2022 https://doi.org/10.1080/03067319.2022.2032008.

115. Synthesis and characterization of chelating hyperbranched polyester nanoparticles and studying its metal) uptake behavior towards Cd(II) ions from water

Faten Alregeb, Fawwaz Khalili, Bassam Sweileh, Dalia Khalil Ali

Molecules 27(12), 3656, 2022

116. Adsorptive removal of cationic dyes (methylene blue and crystal violet) from aqueous solutions using anionic polyacrylamide-based monolith.

Ayat Allah" Al-Massaedh, Fawwaz I. Khalili, Ahmad Al Shra'ah

Desalination and Water Treatment 270, 260–274, 2022

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117. Blending plastics waste with highly available Jordanian kaolin for preparation of alkali activated mortars

Mohamed Khalil El-Tanani, Bassam Zaal Mahasneh, Frezah Muhana, Bassam El-Eswed, Fawwaz Khalili, Tariq Alkhrisat

Sustainability 14, 15742, 2022.

https://doi.org/10.3390/su142315742

118. Synthesis, Characterization and Investigation of Cross-Linked

Chitosan/($MnFe_2O_4$) Nanocomposite Adsorption Potential to Extract U(VI) and Th(IV).
Marwa Alaqarbeh, Fawwaz Khalili, Mohammed Bouachrine, Abdulrahman Alwarthan
Catalysts. 13(1), 47, 2023.
https://doi.org/10.3390/catal13010047

119. Biosorption of Uranium(VI) and Thorium(IV) from Aqueous Solution by Marine Sargassum Aquifolium Macroalga.
Mohammad Albayari, Norazzizi Nordina, Rohana Adnan, Fawwaz I. Khalili and Mazen Nazal .
Accepted in Biomass Conversion and Biorefinery 2023.

120. A simple, stable and highly sensitive spectrophotometric method for the determination of arsenic(III) from different biological media in presence of nanosilica-cysteine composite.
Omar al nasra and Fawwaz I. Khalili
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121. Synthesis and characterization of poly(pentamethelene-2,6-pyridinedicarboxylate) and the study of its ability to absorb Pb(II), Cd(II) and Zn(II) ions.
Fawwaz Khalili, Omar Alaa Numan Alnasra, Shorouq Al Sotari, Bassam Sweileh.
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122. Design, Synthesis, Anticancer Screening and Molecular Modelling Studies of Novel Thiazoles".
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ChemistrySelect 8(42), e202302319
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123. Synthesis and characterization of nanosilica-cysteine composite for arsenic(III) ion removal from water.
Omar Al nasra and Fawwaz I. Khalili
Acta Chimica Slovenica, 674-689, 2023

124. Preparation and characterization of Poly(BPA-PHTH) and its Metal Removal Behavior toward Pb(II), Cu(II), and Cd(II) Ions

Mohammad noralden O. Al-Dweri, Fawwaz I. Khalili, Diab El shrafat's and Bassam A. Sweileh

Sustainable Environment, 2024, 10 (1), 2292309

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125. Kinetics and thermodynamics of Uranium(VI) and Thorium(IV) ions adsorption from aqueous solutions onto Nanokaolinite.

Ikhlas Alosoufi and Fawwaz I. Khalili

Nanotechnology for Environmental Engineering. 2024

https://doi.org/10.1007/s41204-024-00360-1

126. Removal of Th(IV) from groundwater by adsorption onto nano-Kaolin and nano-Kaolin/MnFe2O4 composite.

Jaaferh, J., Khalili, F.I., Masadeh, A.S.

International Journal of Environmental Analytical Chemistry. 2023

Conferences

1- Preparation and characterisation of 3,3'-bis(1,2-oxadiazol-5(4H)-onate) and its complexes with Mn(II) , Ni(II), and Co(II) was presented at-, the 8th Arab Chemical conference. June. 1988.

2- Isolation and characterisation of humic acid isolated from Jordanian Oil Shale was presented at 14th Iraqi Chemical conference Nov. 1989.

3- Characterisation and complexation of some schiff bases with Actinides was presented at the 15th Iraqi Chemical conference, Feb. 1990.

4- Lead (II) complexation by Azraq humic acid was presented at 16th Iraqi Chemical conference, Dec. 1992.

5- Extraction and spectrophotometric determination of Nd(III),Th(IV) and U(VI) in synthetic. brine using Chlorophosphonazo(III). Presented at the 1st Jordanian chemical conference. April. 1993.

6- Nd Solubility in Brine was presented at Migration 93. Charleston, South Carolina, U.S.A.

7- Determination of trihalomethanes concentration produced through the chlorination of water as a function of its humic acid content. Presented at 2nd Chemistry in Industry, Bahrain, Oct. 1994.

8- Interaction behaviour of Organochlorine pesticides with dissolved Jordanian Humic Acid. Presented at 35th science week. Syria, 1995.

9- Synthesis and chelation of new Mannich-type polymers towards some trivalent Lanthanides. Presented at 223rd ACS National Meeting. Orlando, FL, USA. April 2002.

10- Comparative study of binding strengths and thermodynamic aspects of Cu(II)and Ni(II) with humic acid by Schubert's ion exchange method.

Presented at The Second conference on Environment & Natural Resources. Taiz – Yemen May 6, 2003.

11- Preparation of new trifluoromethyl-substituted B-diketones and their extraction behavior of Thorium(IV) and Uranium(VI). Presented at The Fifth Jordanian Conference of Chemistry Amman– Jordan October 24, 2003.

12- Chelation properties of some phenolic-formaldehyde polymers toward some trivalent Lanthanides ions. Presented at The 2nd International Conference on Chemistry and its Applications. Doha – Qatar Dec 6, 2003.

13- Solvent extraction of Thorium(IV) by Didodecylphosphoric acid.

Presented at The Seventh Arab Conference for the Peaceful Uses of Nuclear Energy. Sana'a - Yemen Dec 4, 2004.

14- A Study of Complexation Thermodynamic of Humic acid with Lead (II) by Schubert's ion exchange method. Presented on the Second International Conference on Chemistry and the Environment. Indore – India. Dec 24, 2005.

15- Chelation Properties of Modified Humic Acids towards Some Trivalent Lanthanide Ions. Presented on the Second International Conference on Solid state Science and Technology 2006. Kuala – Terengganu, Malaysia. 4- 6 Sept 2006.

16- Interaction of Polychlorinated Biphenyls with Dissolved Humic Acid from Azraq(Jordan). Presented on the International Humic Substances Society - 11 th Nordic -Baltic Symposium**,** Joensuu, Finland. 14 – 16 June 2007.

17- Synthesis and Characterization of Some Lanthanide and Actinide Metal Complexes of Pyridine-2-Aldeyde Semicarbazones.

Presented on the 10th ICCA, Qaryounis University, Benghazi, Libya. 18-21 Nov 2007.

18- Preparation and Characterization of Poly(bisphenol A oxalate) and

Studying its Chelating Behavior Towards Some Metal Ions.

Sharif T. Al-Hamidi, Bassam A. Sweileh and Fawwaz I. Khalili

Presented on the 24th Polymer Processing Society meeting, Salerno, Italy 15 – 19 June 2008.

19- Adsorption of Thorium(IV) and Uranium(VI) by Tulul al-Shabba

Zeolitic Tuff, Jordan. Mona Al-Shaybe and Fawwaz Khalili

Presented on the ICMJ March 2009.

20- Effect of Nano Sized oxalate Precursor on The Formation of $REBa_2Cu_3O_{7-\delta}$ (RE= Gd, Sm, Ho) Ceramic Via Coprecipitation Method

Imad Hammadneh, Fawwaz Khalili, Ahmed Mustaza Rosli

Presented on the 9th Europian Conference on Applied Conductivity, Dresden, Germany 13 – 18 sept 2009.

21- ADSORPTION OF Ce(III), Gd(III) and Yb(III) ONTO AZRAQ HUMIC ACID. Tala K. Nabtiti and Fawwaz Khalili. Presented on the Fourth International Conference on Chemistry and the Environment. UBP, Thailand 21-23 Jan 2010.

22- Adsorption Of Cu(II), Ni(II), Zn(II), Cd(II) and Pb(II) Onto

Kaolin/Zeolite Based- Geopolymers.

Bassam El-Eswed, Mazen Alshaaer, Rushdi Ibrahim Yousef, Imad

Hamadneh, Fawwaz Khalili

2012 world congress on Engineering and Technology

Beijing- China 26-28 October 2012.

23-Combustion and Emission Characteristics of Vegetable Oils with Diesel Oil Blends.

Omar Bashir, Fawwaz I. Khalili, Bassam A. Sweileh

The international conference (Humboldt Kolleg)

Amman – Jordan April 3-5, 2014.

24- Syntheise and characterization of Poly(1,4- cyclohexasimethylene oxalate) and the study of its Metal uptake behavior towards Pb(II), Zn(II) and Cd(II).

Fawwaz Khalili

International conference on water, energy and environment.

March 24-26, 2015. Sharjah, UAE.

25- Adsorption of uranium(VI) and thorium(IV) by insolubilized humic acid from Azraq soil- Jordan.

Fawwaz Khalili * Alia'a Khalifa and Ghadeer Al-Banna

International conference on Radioanalytical and Nuclear chemistry

April 10-15, 2016. Budapest, Hungary

26- Diya Alsafadi, Francesca Paradisi and Fawwaz Khalili.

Asymmetric reduction of aromatic ketones by halophilic alcohol dehydrogenase ADH2 from Haloferax volcanii with high activity and enantioselectivity.

13th International Symposium on Biocatalysis and Biotransformations (BioTrans 2017) 9-13 July 2017. Budapest, Hungary.

27- Diya Alsafadi, Fawwaz Khalili, Mohammad W. Amer.

Biobutanol production from date palm waste by Clostridium acetobutylicum.

18th International Conference on Bioenergy and Innovative Biorefineries (ICBIB 2016) 24-25 Nov 2016. London- United Kingdome.

Books

1- Manual for experimental Chemistry for third secondary. Ministry of Education, 1986, (Arabic). (With the Jordanian Chemical Society).

2- General Chemistry for Nursing students. University of Jordan Press. 1987, (Arabic) with Prof. K. Abu-Dari.

3- General Chemistry for freshman students majoring in sciences. Press Dar AL Feker, 1989, (Arabic) with Prof. A. Jarr'ar and K.

Abu- Dari.

4- Manual for Experimental General Chemistry, Dar AL Feker, (1991), (Arabic) with Prof. A. Jarrar and K. Abu-Dari.

5- General Chemistry for Junior colleges. Dar AL Dia Press. 1992, (Arabic) with Prof. A. Jarrar and K. Abu-Dari.

6- University Chemistry. Dar Honeen Press. 1992, (Arabic) with Prof. A. Jarrar and K. Abu-Dari.

7- Nuclear and Radiochemistry. Dar Aldia. 2002, (Arabic).

8- General Chemistry (Arabic) Press Dar AL Feker 2008.

9- Heavy metal adsorption. Lambert Academic Publishing, Germany. M. Amer, F.Khalili and A.Awad. 2010. ISBN 978-3- 8383-8029-1.

10- Adsorption of Actinides. Lambert Academic Publishing, Germany. F. Khalili and A. K. Mohammad. 2011. ISBN 978-3- 8443-1058-0.

10- Head of Translation team for higher education With Obeikan:

I: General Chemistry by Raymond Chang.

II: Inorganic chemistry by Miessler and Tarr.

12- Head of Translation team for higher education With Obeikan:

Grade 11 chemistry for Saudi Arabia

13- A study on Adsorption of Fatty Hydoxamic Acids by Natural Clays. Lambert Academic Publishing, Germany. Imad Hamadneh, Basel M. Jafar and Fawwaz I. Khalili. 2015. ISBN 978-3-659-74753-5.

14- Extraction of U(VI) From High Ionic Strength Solutions By (HDDPA). Lambert Academic Publishing, Germany. Mazen Nazal, Fawwaz Khalili. 2015. ISBN 978-3-659-19327-9

Graduate Students M.Sc

1- Hatem R. Marqah. M.Sc. 1986.
Kinetics of decomposition of some B-diketones and their
actinide complexes with halates.
2- Mahmoud M. Dawod. M.Sc. 1986.
Synthesis and characterisation of transition metal complexes of
Some quadridentate schiff-base ligands.
3- Nayef M. Ahmad. M.Sc. 1987.
Synthesis and characterisation of some transition metal complexes
With heterocyclic ligands derived from dichloroglyoxime.
4-Emad Sahili, M.Sc. 1993.
Chlorination of humic acid solutions isolated from the Azraq oasis in
Jordan.
5- Kefah Dass. M. Sc. 1993.
Interaction of humic acid isolated from King Talal dam with
Pesticides found in the dam water.
6-Iman Abdellah, M.Sc. 1994.
Thermodynamics of the ionization of some Nitrophenols and
associated buffers in mixed aqueous media.
7-Majed Attari. M.Sc. 1995.
Preparation and characterisation of new schiff bases and their
complexes with some metal ions.
8-Faiha Drass. M.Sc. 1995.
Interaction behaviour of Jordanian Volcanic Ash with some Ions.
9-Khaled Abdel-Hadi. M.Sc. 1996.
Solvent extraction of U(VI) and Th(IV) by Didodecylphosphoric
acid.
10-Khaldoun Khaled Saoud. M.Sc 1996.
Preparation and Characterisation of new oxadiazole derivatives and
their complexes with some metal ions.

11-Suhair Abu Wardeh. M.Sc. 1996.

Extraction of Uranium (VI) and Thorium(IV) by using Hydroxy pyridienthion amid derivatives.

12-Ehsan Ismail Al- Soudani 2001.

Synergistic effect of Didodecylphosphoric acid with Tri-n-butyl phosphate(TBP) and Tri-n-octylphosphine oxide (TOPO) on the extraction of U(VI) and Th(IV).

13-Ali Issa Ismail. M.Sc. 2001.

Synthesis and chelation of new Mannich-type polymers towards some Trivalent Lanthanides.

14-Fuad Shafiq Al Rimawi. M.Sc 2002.

Chelation properties of some phenolic-formaldehyde polymers toward some trivalent Lanthanides ions.

15-Ayman Ahmad Mohammad Ahmad. M. Sc 2002.

Chelation properties of some condensation polymers toward some trivalent Lanthanides ions by complexometric titrations.

16-Salah Al Trawneh. M. Sc 2002.

Preparation of new trifluoromethyl-substituted B-diketones and their extraction behavior of Thorium(IV) and Uranium(VI).

17-Suha Al Tarawneh M. Sc 2003.

Preparation of new trifluoromethyl-substituted B-diketones complexes with Fe(III), Co(III), Th(IV) and U(VI).

18-Remah Naim Yaghmour M. Sc 2003.

Chelation properties of Modified Humic acids towards some trivalent Lanthanides ions.

19-Kareman al Saraireh M. Sc 2004.

Preparation of new Trifloromethyl – substituted B-diketones and its extraction behavior of Lanthanum (III) and Cerium (III) Ions.

20-Nashwa nabeel Shafa Amry M. Sc 2004.

Chelation properties of some Mannich-type polymers towards some

metal ions.

21-Elham abdul Wahab Al qudah M. Sc 2004.

Preparation of new Triflоromethyl–substituted B-diketones and its extraction behaviour of Uranyl (II) and Thorium (IV) Ions.

22-Jafar Ibrahim M. Abd El- Gani M. Sc 2005.

Interaction of polychlorinated biphenyls with dissolved humic acid from Azraq.

23- Tala Nabtetee. M. Sc 2005.

Adsorption of lanthanides onto Azraq Humic Acid.

24- Mazen Khalid Nazzal. M. Sc 2006.

The effect of ionic strength on the extraction of U (VI) from perchlorate, nitrate and phosphate solutions by Didodecylphosphoric acid.

25- Mohammed Abed al- Karim al- Bayyari. M. Sc 2006.

The effect of ionic strength on the extraction of Th (IV) from perchlorate, nitrate and phosphate solutions by Didodecylphosphoric acid.

26- Sharif T. Al-Hamidi. M. Sc 2006.

Preparation and Characterization of BisPhenol A Based Oxalate Containing Polymer and Its Chelation Behaviour Toward Some Metal Ions.

27- Ahmad Kayyed Mohammad. M. Sc 2007.

Adsorption of Uranium (VI) and Thorium (IV) onto Azraq humic acid.

28- Diaa Alsafadee. M. Sc 2008.

Preparation and Characterization of hydroquinone based polyoxalate polymer and studying its chelation behaviour towards Pb (II), Cd (II) and Hg (II) ions.

29- Ibraheem Awad. M. Sc 2008.

Preparation and Characterization of poly(neopentyl oxalate) polymer and studying its chelation behaviour towards Pb(II), Cd(II) and

Hg(II) ions.

30- Omar Bashere. M. Sc 2008

Assessment of Used Vegetable Oils Blended with Jordanian Diesel as Bio- Diesel Fuel.

31- Mohammad Sultan M. Sc 2009.

Adsorption of Sulfur compounds in Jordanian Diesel by Jordanian Bentonite.

32- Gameel Jareeree M. Sc 2009.

Removal pf Pb(II), Mn(II), Zn(II), and Cr(III) from waste Water using Jordanian Bentonite.

33- Mona Al –shaeb M. Sc 2010.

Adsorption of Uranium (VI) and Thorium (IV) by Jordanian Zeolite

34- Faisal Mustafa M. Sc 2010.

Adsorption of Sulfur compounds in Jordanian Diesel Fuel Using Jordanian Bentonite.

35- Rana Masad M. Sc 2010.

Preparation and Characterization of 4,4'– biphenol-based polyoxalate oligomer and studying its chelation behaviour towards Pb(II), Zn(II), Cu(II) and Sn(II) ions.

36- Najla salama M. Sc 2010.

Adsorption of Uranium (VI) and Thorium (IV) by Jordanian bentonite.

37- Mohammed M. Al-Jboor M. Sc 2010.

Removal of Nitrate ions from Water Using Jordanian Lemon Wood and Olive Seeds Charcoal.

38- Yousef Ali Al-Dalahmeh M. Sc 2010.

Preperation and Characterization Of 1,4-Cyclohexandimethanol Based Polyoxalate Polymer and Studying Its Chelation Behaviour Towards Pb(II), Zn(II) And Cd(II) Ions.

39- Basel M. Sc 2011

Modification of Jordanian clays by using prepared fatty hydroxamic acids (FHAs) from several vegetable oils.

40- Ghadeer A. Al-Banna M. Sc 2011

Adsorption of Uranium (VI) and Thorium (IV) by insolubizied humic acid from Ajloun soil.

41- Alia M. Khaliefeh M. Sc 2011

Removal of uranuim(VI) and thoruim(IV) by insolubilized humic acid from Azraq soil in Jordan.

42- Mohammad Ayoub M. Sc 2012

Modification of Kaolinite by amino acid and its adsorption of heavy metals.

43- Faten Al- Ruqub M. Sc 2012

Preparation and characterization of poly(1,3-cyclohexylene oxalate) and the study of its uptake characteristics towards Pb(II), Cd(II) and Zn(II) ions.

44- Aisha Nawaf Al Blawi M. Sc 2012

Synthesis And Characterization of Poly(1,4-Benzenedimethylene Phthalate) And The Study of Its Ability To Adsorb Pb(II), Cd(II), and Zn(II) ions

45- Mosab Shehdeh Al-kakah M. Sc 2014

Removal of Pb(II), Cd(II), and Zn(II) ions from aqueous solution using Jordanian kaolinite modified by the amino acid: methionine

46- Faris Atalah Obeid Alhnafat M. Sc 2014

Removal of lead(II), zinc(II) and cadmium(II) by insolubilized humic acid from tafila soil in jordan

47- Shorouq Al-Sotari M. Sc 2015

Synthesis and characterization of poly(pentamethylene 2,6-pyridinedicarboxylate) and the study of its ability to adsorb Pb(II), Cd(II), and Zn(II) Ions.

48- Tamara Ghrear M. Sc 2015

Synthesis and characterization of poly(hexamethylene-2,6 pyridenedicarboxylate) and poly(1,4-cyclohexylene 2,6-pyridenedicarboxylate) and the study of their adsorption behavior towards Pb^{2+} and Cd^{2+}ions.

49- Slam. I.Y. Salameh M. Sc 2015

Kinetic and thermodynamic studies for the adsorption of U(VI) and Th(IV) ions from aqueous solutions by surfactant-modified Jordanian diatomaceous matter.

50- Omar Mohammad Salman Aldagag M. Sc 2015

Stablization and solidification of heavy metals-humic acid complexes using inorganic polymers.

51- Faisal Suleiman Mustafa M. Sc 2016

Stability of Rosuvastatin in the presence of some pharmaceutical excipients in solid state.

Supervisor: Dr. Fawwaz Khalili, Prof. and Co. supervisor: Dr. Fadwa M. Odeh

52- Azizah Mohammd Almadhi M. Sc 2016

Synthesis and characterization of zeolite (ZSM-5) for drug delivery applications.

Supervisor: Dr. Fawwaz Khalili, Prof. and Co. supervisor: Dr. Fadwa M. Odeh

53- Abdullah Mafleh Falah Al-Mashaqbeh M. Sc 2016

Stabilization and solidification of organic dyes by using inorganic polymers.

Supervisor: Dr. Fawwaz I. Khalili, Prof. and Co-supervisor: Dr. Bassam El-Eswed

54- Salam Ahmad Abdel-Rahman Abuali M. Sc 2016

Stabilization and solidification of several anions using inorganic polymers.

Supervisor: Dr. Fawwaz I. Khalili, Prof. and Co-supervisor: Dr. Bassam El-Eswed

55- Manal Mahmoud Asa'd Al-Khamaiseh M. Sc 2016

Heavy metals content in Jordanian imported basmati rice grains

56- Bara'a Ibrahim M. Sc 2018

Removal of some metal ions onto insolubilized humic acid from Iraq soil

Supervisor: Dr. Hutaf Baker, Prof. and Co-supervisor: Fawwaz I. Khalili, Prof

57- Mohammed Jaradat M. Sc 2018

Source Rock Quality Characterization of Deeply Buried Oil Shale of MCM Formation within Hamza Field, Azraq Basin - Jordan.

Supervisor: Dr., Prof Abdallah abu Hamad. and Co-supervisor: Dr. Fawwaz I. Khalili, Prof

58- Youmn Othman Ghalawinji M. Sc 2019

Purification and biochemical charactrization of polyhydroxyalkanoate (pha) synthase enzyme from haloferax mediterranei: the key enzyme of biodegradable plastic synthesis

Supervisor: Fawwaz I. Khalili, Prof and Co-supervisor: Dr. Diya Amer Alsafadi

59- Aisha Muthana Alasadi M. Sc 2019

Adsorption of Cu(II), Ni(II) and Zn(II) ions by nano kaolinite: Thermodynamics and kinetics studies

Supervisor: Fawwaz I. Khalili, Prof and Co-supervisor: Dr. Akel Awwad, Prof.

60- Akram Ismail Abu Shawer M. Sc 2022

Removal of thorium(IV) By Olive Pomace from Madaba in Jordan and Its Modified Forms

Supervisor: Fawwaz I. Khalili

61- Ekhlas Haroun Alosofee M. Sc 2022

Nanokaolinite Extracted From Sweileh Sand Deposits And Its Modified Form As An Efficient Adsorbent For uranium(VI) And thorium(IV) From Aqueous Solutions

Supervisor: Fawwaz I. Khalili

62-Ehab Hamzeh

Removal of uranium(VI) By Olive Pomace From Madaba In Jordan And Its Modified Forms

63- Shrouq Al azeh M. Sc 2023

Study of the Removal of thorium (+4) and uranium (+6) ions from aqueous solutions using lemon charcoal

64- Heba Taher M. Sc 2023

Study of the removal of thorium(IV) and uranium(VI) ions from aqueous solutions using oak charcoal.

65- Aya Aledwan M. Sc 2024

Removal of Methylene blue and Crystal violet from aqueous solution by
Jordanian Oak charcoal

66- Bayan Al huniti M. Sc 2024

Study of the removal of thorium (4+) and uranium (6+) ions from aqueous solutions using Nigerian charcoal.

Graduate Students PhD

1- Hutaf Mustafa Baker. PhD. 2002.

Complexation of Azraq Humic Acid with Heavy Metal Ions.

2- Bassam I. El –Eswed PhD 2005.

Adsorption of heavy metals by humic acid from Azraq area.

3-Mahmoud M. Salman PhD 2005.

Adsorption of heavy metals on Azraq humic acid immobilized on Azraq bentonite clay.

4-Ibrahim A. Al-Saraierh. PhD 2005.

Synthesis and characterization of some α-amino-β-keto esters complexes with some transition metals.

5- Ayad Shawabkeh. PhD 2008.

Adsorption of Some Chlorinated Pesticides on Azraq Humic Acid Immobilized on Azraq Bentonite.

6- Safa'a Abdulla Al-Momani PhD 2010.

Adsorption of Heavy Metals by Jordanian Humin.

7- Mohammad nor aldine" Obaid Al-Dweri PhD 2010.

Preparation and characterization of some polyesters and studying their ability to adsorb Pb(II), Cd(II) AND Cu(II) ions

8- Khansa Issa PhD 2011.

Adsorption of heavy metal ions on modified Jordanian kaolin clay by humic acid.

9- Ashraf Al-saudi PhD 2013.

Complexation of Humic acid by heavy metals and their theoretical calculations.

Supervisor: Dr. Fawwaz I. Khalili, Prof. and Co-supervisor: Dr. Murad Al Damen

10- Frezah Jamil Ibrahim Muhana PhD 2015.

Adsorption of selected ions on commercial humic acid and humic acid extracted from Ajloun area modified with chitosan.

Supervisor: Dr. Fawwaz I. Khalili, Prof. and Co-supervisor: Dr. Bassam El-Eswed

11- Amal Ibraheem Alsayaheen PhD 2017.

Effect Of Irrigation With Thermal Water On Tomato And Cauliflower Plants Uptake Of Radium-226, Radium-228 And Potassium-40.

Supervisor: Dr. Fawwaz I. Khalili, Prof. and Co-supervisor: Dr. Jamal Y. Ayad

12- Marwa Mohammed AL-a'qarbeh PhD 2018.

Removal of uranium(VI) and thorium(IV) by superparamagnetic manganese spinel ferrite nanoparticles

Supervisor: Dr. Fawwaz I. Khalili, Prof

13- Faten M. " Abu Orabi Aladwan" PhD 2018.

Biosorption of Uranium(VI), Thorium(IV), Neodymium(III) and Cerium(III) by Hedera Helix leaves.

Supervisor: Dr. Fawwaz I. Khalili, Prof

14- Latifa Saeed Ismail PhD 2019.

Sorption of uranium(VI) and thorium(IV) by modified silica nanoparticles with cysteine or methionine amino acids

Supervisor: Dr. Fawwaz I. Khalili, Prof

15. Eshraq al Jamal PhD 2020

Assessment of Heavy Metals Contamination in Seawater and their Adsorption onto Natural Sediments from the Gulf of Aqaba- Jordan

Supervisor: Dr. Mohammed Rasheed Prof. and Dr. Fawwaz I. Khalili, Prof

16. Jafar Al Jaffreh 2023

Removal of uranuim(VI) and thoruim(IV) from water by adsorption onto nano-composite MnFe2O4 / kaolin.

17. Omar Al nasra 2023

Preparation, characterization and Investigation of nanosilica-cysteine system loaded with arsenic trioxide (SiO_2-Cys/ATO) and applying computational biology tools and machine learning to assess the potential of drug combination for cancer therapy.

18. Diab Al sharafat 2024

Removal of humic acid by nano kaolinite and nano manganese ferrite and then the adsorption of Th(IV) and U(VI) by the modified composite.

19- Khaled Harasheh 2024

Adsorption of uranuim(VI) and thoruim(IV) from water by nano nickel oxide and its modified forms with humic acid or methionine acid

Courses taught.

For undergraduate students.

- General Chemistry courses for Medical, Nursing, Engineering and Science Students.
- Experimental general chemistry course for non-chemistry major.
- Experimental general chemistry course for chemistry major
- Inorganic Chemistry (1)
- Inorganic Chemistry (2)
- Inorganic Chemistry (3)
- Organometallic chemistry
- Practical inorganic Laboratory
- Nuclear and radiochemistry course for chemistry, biology and medical analysis students.
- Soil Chemistry course for chemistry students.

For graduate students.

- Group theory for master students
- Advanced Inorganic Chemistry for PhD students.
- PhD students graduate seminar.

Positions

1991-1995 Vice president for the Jordanian Chemical Society.

1992-1996 Under Secretary for the Union of Arab Chemist.

July 95-Sept 96 President of the Jordanian Chemical Society.

Sept 1992-1996 Head of the Disposal of Chemical and Nuclear Wastes Committee at the University of Jordan.

Sept 1996 – August 2000 Chairman of the Science Department and Prof. of Inorganic Chemistry at Sohar Teacher College for Chairman of the science department, Ministry of Higher Education, Sultanate of Oman.

Member of the International Society for Humic Acid.

Member of the International Congress for Chemistry, India.

Head of the Jordanian student team to the 2nd Arab Chemistry Olympiad Sept 2004.

References

1- Prof. Raid Banat. Chemistry Department. Dean of Faculty of Science
Al-Albyet university, Mafraq - Jordan.

2- Prof. Dia Eddin Arafah. Ex-president of Al-Albyet university. The University of Jordan. Amman - Jordan 11942.

3- Prof. Fuad Kettaneh. Mathematics Department. The University of Jordan. Amman - Jordan 11942.