

Name: Maha H. Al-Qunaibit

Personal Details

1- Home address: P.O.Box 75 318 Riyadh 11 578 KSA

2- Tel: +966 (11) 805 5734

3- E-mail address: maha@ksu.edu.sa

<http://fac.ksu.edu.sa/maha>

Qualifications:

1- Ph.D. (Inorg. Chem.) 2000, Riyadh, King Saud Univ., KSA. (Spectroscopic investigations, FT-IR, Mössbauer and NMR of metal binding sites in algae).

2- M.Sc. (Inorg. Chem.) 1994, Riyadh, King Saud Univ., KSA. (Substitutions in Hydroxyapatites, Calcium by Rubidium or Cesium and Hydroxyl by Carbonate).

3- B.Sc. (Chemistry/ Biology), 1981, King Abdulaziz Univ., Jeddah, KSA.

Publications:

Books

1. K. C. Molloy, Arabic, translated; **Maha Al-Qunaibit**, Group Theory for Chemists-Fundamentals and Applications, Translation Center, KSU press, 2014.
2. **Maha Al-Qunaibit**, Spectroscopic Investigations of Metal Binding Sites in Algae: FT-IR, Mössbauer and NMR, Lambert Academic Publishing, 2012 (Ph.D. Thesis).
3. Mutasim I. Khalil and **Maha H. Al-Qunaibit**, Mössbauer Spectra: Theory and Applications, Arabic, Dar Alzahraa, Riyadh 2008.
4. S. Owen and A. brooker, Arabic, translated; **Maha Al-Qunaibit**, A Guide in Modern Inorganic Chemistry, King Saud University Press, 2007.

Published Research Papers

1. A. Alanasi, W. Alkayali, **M. Al-Qunaibit**, T. Qahtan and T. Saleh, Synthesis of exfoliated polystyren/anionic clay Mg Al double hydroxide: structural and thermal properties, *RSC Advances*, 2015, 5, 71441.
2. A. Alanasi, W. Alkayali, **M. Al-Qunaibit**, T. Qahtan and T. Saleh, Synthesis, surface morphology and properties of polystyrene modified synthetic clay nanocomposites, *Asian Journal of Chemistry*, 27 (2015), 10, 2900-3906.
3. M. I. Khalil, **M. H. Al-Qunaibit**, A. M. Al-zahem, J. P. Labis, Synthesis and characterization of ZnO nanoparticles by thermal decomposition of a curcumin zinc complex, *Arabian Journal of Chemistry*, 7, (2014), 1178-1184.
4. Mutasim I. Khalil, Aisha M. AL-Zahem, **Maha M. Qunaibit**, Synthesis, Characterization, and Antitumor Activity of Binuclear Curcumin–Metal(II) Hydroxo Complexes, *Medicinal Chemistry Research*, April 2014, Volume 23, Issue 4, 1683-1689
5. Mutasim I. Khalil, Aisha Al-Zahem, and **Maha H. Al-Qunaibit**, Synthesis, Characterization, Mössbauer Parameters and Antitumor Activity of Fe(III) Curcumin Complex, *Bioinorganic Chemistry and Applications*, Article ID 982423, 5 pages, (2013), doi: 10.1155/2013/982423.
6. **M. Al-Qunaibit** and L. Al Juhaiman, Mechanical Modification of Khulays Clay; Structural and Textural Effects, *Int. J. Basic & Appl. Sci.*, 12;6, pp 205-209 (2012).
7. **M. H. Al-Qunaibit**, Divalent Cu, Cd and Pb Biosorption in mixed solvents, *Bioinorganic Chemistry and Applications*, Vol. (2009), ID561091.
8. Wafaa K. Mekhemar and **Maha H. Al-Qunaibit**, Kinetics of copper (II) Adsorption by Bentonite in Mixed Solvents, *J. King Saud University*, Vol. 21, Science (Special issue), pp 11-20 (2009)
9. Mutasim I. Khalil, Hamda S. A-Enzi and **Maha H. Al-Qunaibit**, A New Route to the Preparation of K₂CrO₄, *J. Saudi Chem. Soc.*, Vol.11, No. 2: pp 287-292 (2007)
10. **M. Al-Qunaibit**, M. Khalil, and A. Al-Wassil, The effect of solvents on metal ion adsorption by the alga chlorella vulgaris, *Chemosphere* 60 (2005) 412-418.
11. T.I.A. Al-Muhaimid, **M.H. Al-Qunaibit**, K. Al-farhan and R.M. Mahfouz, Kinetic Analysis of The Thermal Decomposition of Pristine and γ -irradiated Zinc Uranyl Acetate, *Radiation Effects and Deffects in Solids*, Vol. 159 (2005) 613-635.
12. **M.H. Al-Qunaibit**, W.K.Mekhemar, A.A. Zaghloul, The adsorption of Cu(II) ions on bentonite- a kinetic study, *J. Colloid and Interface Sci.*, 283 (2005) 316-321
13. **M. H. Al-Qunaibit**, A Kinetic Study of Uptake of Some Cationic Entities by the Alga *Chlorella Vulgaris*, *Chemindix 2004*, WTR06, September 2004, Bahrain.
14. A.Al-Wassil, **M.Al-Qunaibit** and M. Khalil, FT-IR Spectroscopic study of the nature of Cd(II), Fe(III) and Sn(IV) moieties biosorped by *chlorella vulgaris*. *J. of Saudi. Chem. Soc.*; Vol.7. No. 3, pp.327-330 (2003).
15. Abdulaziz I. Al-Wassil, Mutasim I. Khalil and **Maha H. Al-Qunaibit**, Study of Metal Exchange Mechanisms in Microorganisms, *J. Saudi Chem. Soc.*, Vol.4, No.1, pp 33-42 (2000).

Research Papers Presented in Conferences

1. L.A. Al Juhaïman, W.Q. Mekhamer and **M. H. Al Qunaibit**, "*Particle size reduction of Bentonite by mechanical grinding: Effect on the structure, shape and particle size distribution*", Colloids and Materials 2011, 8-11 May 2011, Amsterdam, Netherlands
2. Hawazin A. Al-nafisah, Waed Z. Kayali and **Maha H. Al-Qunaibit**, "*Preparation and Characterization of Mg/Al Layered Double Hydroxides*", First United Arab Emirates Conference on Pure and Applied Chemistry (ECPAC11), March 2011, AUS, Sharjah Arabian Emirates.
3. **M. Al-Qunaibit**, "*A Spectral Investigation of Thermally Treated Ni-exchanged Montmorillonite*", 2010 SEA- CSSJ-CMS Trilateral Meeting on Clays, Madrid-Seville, Spain, June 2010.
4. **M. H. Al-Qunaibit**, "*The effect of polarity on metal binding by chlorella vulgaris; FT-IR study*", ICIBIC XIII, July 2007, Vienna.
5. W. Mekemar, **M. Al-Qunaibit**, and I. Abd-Elaal, "*Kinetics of Copper(II) Adsorption by Bentonite in Mixed Solvents*", Third Saudi Science Conference "New Horizons in Science and Their Applications", March, 2007.
6. S.M. Abo-Zeid, **M. H. Al-Qunaibit** and O.M. AboulWafa, "*Structural and biochemical studies of metal complexes with estrone derivatives*", The 9th International Pharmaceutical Conference and exposition, KSU, Dec., 2005, Riyadh.
7. **M.H. Al-Qunaibit** " *Algae as Green Ion Exchangers*", Environmental Citizenship Symposium, Riyadh, June 2002,.
8. **Maha Al-Qunaibit**, "*Applications in metal sequestering by algae*". Natural Products Symposium, Riyadh, March 2001.
9. M.Khalil. A. Al-Wassil and **M. Al-Qunaibit**, "*Microorganisms as ion exchangers*", The first National Symposium for Material Science, Riyadh, January 1998,.
10. M.Khalil, A. Al-Wassil and **M. Al-Qunaibit**, "*Metals and hydrocarbons biosorption by microorganisms; an environmental study*", Development and Environment Impact, Riyadh, September 1997,

Awards

Distinguished research and publication quality award, 2010, KSU.

Grants:

1. Metal-Organic Frameworks (MOFs), 2016, KSU, Women Sciences and Medical Studies Research Center, approved grant, principle investigator.
2. *Clay Studies Research Group*, 2011, KSU, Research Center, project No. RGP-VPP-102, co- investigator.
3. *Computational and vibrational analysis of 12-thiacrown-4 and 18-thiacrown-6*, KACST, 2010, co-investigator
4. *Modification of Clays by Physical and Chemical Methods*, 2010, KSU, Sections of Women Sciences and Medical Studies Research Center, grant 180149, principle investigator.
5. *A Kinetic Study of Uptake of Some Cationic Entities by the Alga Chlorella Vulgaris*, 2004, SABIC, Principle Investigator.

Theses Supervision

1. Amani Al-Anasi, *Preparation and characterization of Mg/Al Layered Double Hydroxides intercalated with polymer*, M.Sc., ongoing, co-supervisor
2. Hawazen Al-Nafesa, *Preparation and characterization of Layered Double Hydroxides containing divalent magnesium and nickel and trivalent aluminium and chromium ions*, M.Sc., submitted 2012, supervisor.
3. Fawaza Al-Enazi, *Radiolysis of some Iodo Compounds*, M.Sc. submitted 2011, co-supervisor.
4. Hamda Al-Enazi, *New Routes in Preparation of Metal Oxides*, Ph.D., submitted 2009, co-supervisor.
5. Hessa Al-Shamari, *Reactions of Lactone Moltens*, M.Sc, submitted 2005, co-supervisor.
6. Tahani Al-Muhaimeed, *Kinetic studies on behaviour of the thermal decomposition of some transition metals acetates before and after (gamma)-irradiation*, M.Sc., submitted 2003, co-supervisor

Appointments:

1. Teacher Assistant , Chem. Dept. KSU (1984- 1994)
2. Lecturer, Chem. Dept. KSU (1994- 2001)
3. Assistant professor, Chem. Dept. (2001-2010)
4. NMR lab supervisor (since 2000)
5. Research Center director (2002-2003)
6. Vice Dean, College of Sciences (2003 -2005)
7. Vice Dean, Deanship of Graduate studies (2009-2011)
8. Associate Professor, Chem. Dept, KSU (2010)
9. Vice Rector for Educational Affairs, PNU, November 2011- April 2013.
10. Vice Rector for Research and Graduate Studies, PNU, May 2013 – September 2014.