

CURRICULUM VITAE

SAMAR AL-SHAKSHIR AL-HAZZAM

Department of Chemistry, An-Najah N. University,
P.O. Box 7, University Street,
Nablus – West Bank, Palestine
Tel. (H) +970-9-239 1171 (O) +970-9-2345113
Fax +970-9-2387982

E-mail: salshakshir@najah.edu or ssalshakshir@yahoo.com

PERSONAL

Place of Birth: Nablus
Nationality: Palestine
Marital Status: Married

EDUCATION:

1990-1995 The University of Oklahoma at Norman, Oklahoma
Doctor of Philosophy in Chemistry.

1984 – 1986 Southern Illinois University at Carbondale, Illinois
Master of Science in Chemistry

1978 –1982 An-Najah N. University, Nablus
Bachelor of Science in Chemistry

OCCUPATIONS:

1995-Present An-Najah N. University
Assistant Professor

2009-2011 Head of Chemistry department

March- Sept. 1995 The University of Oklahoma at Norman, Oklahoma
General Postdoctoral Research Assistant.

1990- Jan.1995 The University of Oklahoma at Norman, Oklahoma
General Chemistry Teaching Assistant / Research Assistant

1987 – 1989 An-Najah N. University
Lecturer

Aug- Dec. 1986 Southern Illinois University at Carbondale, Illinois
General Chemistry Teaching Assistant

1982-1984

An-Najah N. University
Teaching and Research Assistant

RESEARCH INTERESTS:

1. Synthesis of fire retardant compounds based on organoalkylsilane compounds. Structural and conformational studies using spectroscopic techniques.
2. Homogeneous catalysis with organometallics.
3. Photoelectrochemistry.
4. Speciation and removal of metal ions from water

RESEARCH SKILLS:

Ability in performing chemical synthesis and reactions by employing Bench and Vacuum Line methods and techniques.

Experience in operating multinuclear NMR (Varian XR-300 S), Infrared, (Perkin Elmer 283B, IBM32 FTIR).

Mass Spectrometry (Hewlett Packard 5890 Series II) & HPLC Instruments.

COMPUTER AND SOFTWARE SKILL:

1. Basic knowledge of Windows, Dos, Graphics, MS word 7, Excel 7, power point, etc.
2. Internet and on line skills.

THESIS CO-SUPERVISION:

M.Sc student thesis 1999-2000, Moayyad Masoud.

M.Sc student thesis 2013, Jumana Ishtewie.

M.Sc student thesis 2016, Wala' Droubi

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THESIS EXAMINATION:

1. Moayyad Masoud, M.Sc. Thesis in Chemistry (2000)
 2. Ghazi Nour, M.Sc. Thesis in chemistry (2009)
 3. Maisaa Ateeq, M.Sc. Thesis in chemistry (2012)
 4. Waseem Mansour, M.Sc. Thesis in chemistry (2013)
- And others.

ADMINISTRATION:

1. Chairman, Chemistry Department at An-Najah N. University (2009-2011).
2. Coordinator for the Graduate Studies School for Chemistry Department at An-Najah N. University (2009-2011).

COMMITTEE MEMBERSHIP:

1. Member of the Science Faculty Council.
2. Graduate studies committee.
3. Social activity committee.
4. Graduate student admissions.
5. Study plan evaluation committee.
6. Fact finding committee.
7. General chemistry and practical general chemistry evaluation committee.
8. Member of committee for quality assurance.

9. Registration & student supervision.
10. Pure chemistry plan committee.
11. Audit grades committee.
12. Public safety committee.

TEACHING:

1. Advanced Inorganic Chemistry (senior level Chem. 23421)
2. Advanced Inorganic Chemistry (M.Sc. Chem. 423521)
3. Instrumental Analysis Laboratory (M. Sc. Chem.423515)
4. Inorganic Chemistry I and II and Inorg. Chem. Laboratory (Chem. 23321, 23322, 23325).
5. General Chemistry Lecture and Laboratory.
6. Analytical Chemistry Laboratory (Chem. 23215, 23216).
7. General chemistry for medicine students.

OTHER ACTIVITIES:

1. Tennis, Volleyball, Walking
2. Travel
3. Reading
4. Embroidery

MEMBERSHIPS:

American Chemical Society

AWARDS:

AMIDEAST Scholarship (1984 – 1986).

CONFERENCES:

1. 2nd International Conference of Pure, Applied and Environmental Chemistry, Yarmouk University, Irbid, Jordan. April 17-21, 2000.
2. Second conference on Biotechnology Research and Application In Palestine. An Najah N. University, Nablus, Palestine. Sep. 26, 2010.
3. Palestinian Conference on Modern Trends in Mathematics and Physics II. An Najah N. University, Nablus, Palestine. Aug. 2nd, 2010.
4. Palestinian International Chemistry Conference. Birzeit University, March 23-24, 2013.
5. The first International Palestinian Conference on nanotechnology for advanced material and devices. An Najah N. University, 26-3-2012.
6. The fifth Palestinian international chemistry conference. An Najah N. University, 1-6-2011.
7. Renewable energy and material science. An Najah N. University, 30-3-2013.
8. The science day on theoretical and applied physics. An Najah N. University, 23-11- 2013.
9. Renewable energy and material science. An Najah N. University, Sat, 30-03-2013.

10. The science day on theoretical and applied physics. An Najah N. University, Sat, 23-11-2013.
11. The second international Palestinian conference on olive in Palestine. Mon, 25-11-2013.
12. The eighth Palestinian international chemistry conference. An Najah N. University, Tue, 21-04-2015.
13. The second International Palestinian Conference on nanotechnology for advanced material and devices. An Najah N. University, Wed, 23-03-2016.
14. The Second Palestinian International Graduate Conference. An Najah N. University, Thursday, 20-04-2017.

VISITS:

Dr. Francois Cansell, ICMCB, Bordeaux University, France, (Summer, 2004)

PUBLICATIONS

1. "Speciation of Charged Complexes by Donnan Dialysis". James A. Cox and Samar Al-Shakshir, *Anal. Lett.* **21(9)**, 1787-1769 (1988)
2. Proceedings of the Oak Model conference on Waste Management: Volume1. Part 3, Pages 89-110, Oct. 1987: James A. Cox. Atul Bhatanger & Samar Al-Shakshir, Membrane- based Methods for speciation and removal of Metals from Waste Water.
3. Metalloporphyrin/polysiloxane modified n-GaAs surfaces: effect on photoelectrochemical efficiency and surface stability, Hikmat S. Hilal, Moayad Masoud, Samar Shakshir, Najeh Jisraw: *J. Electroanal. Chem.*, **527**,(2002), 47-55
4. Surface modification of n-GaAs semiconductor with metalloporphyrin/polysiloxane matrices. Hikmat S. Hilal , Moayad Masoud, Samar Shakhshir : 2nd International conference of pure, applied and environmental chemistry, Yarmouk University, Irbid- Jordan. April 17-21,2000
5. Repositioning of n-GaAs band edges by modification with metalloporphrin/polysiloxane matrices. Hikmat S. Hilal, Moayad Masoud, Samar Shakhshir : *Active and Passive Electronic Components*, **26**(2003)11.
6. Surface modified n-GaAs semiconductor with metalloporphyrinatomanganese (III) encapsulated in polysiloxane matrices: effect of modification on the semiconductor characteristics at the solid/liquid junction, H.S. Hilal S.

- Shakhshir, and Moayyad Massoud, (Sharjah International Solar Energy Conference, Sharjah University, Sharjah, UAE, Feb. 2001).
7. n-GaAs Band-edge repositioning by modification with metalloporphyrin/polysiloxane matrices, H.S. Hilal, M. Masoud, S. Shakhshir, N. Jisrawi, (proc. Sharjah Solar Energy, Conf., 2001).
 8. Stability and Cell Efficiency Enhancement of n-GaAs electrodes by Metalloporphyrin Complexes Embedded inside Polysiloxane Matrices, H.S. Hilal, M. Masoud, S. Shakhshir, N. Jisrawi, World Renewable Energy Congress VII, June 29th – July 5th, 2002 Cologne, Germany.
 9. Preparation, characterization, modification and application of thin-film cadmium chalcogenide semiconductors: enhancement of solar conversion efficiency and stability. Hikmat S. Hilal, Iyad Sadeddin, Rania Ismail, Amer El-Hamouz, Huda Sabri, Subhi Saleh, Maysaa Atatri, Ahed Zyoud, Mosa El-Hasan, Israa hamdan, Samar Al-Shakhshir, Moayyad Masoud. 2nd International Conference on Energy and Environmental Protection in Sustainable Development (ICEEP' 2009). Palestine Polytechnic University. Hebron, Palestine, November 10-12, 2009.
 10. Understanding the Mode of Action of ZnO Nano-Particles as Photocatalysts in Water Disinfection: Bacteria Killing vs. Complete Photo-degradation. Jumana Ishtaiwa , Majdi Dwikat, Samar Shakhshir, Ahed Zyoud and Hikmat Hilal. Palestinian International Chemistry Conference. Birzeit University, Birzeit, Palestine, March 23 - 24, 2013.
 11. Quality Assesment of Oil from Olive Trees Irrigated by Waste Water Using Fluorescence Spectroscopy. W. A. Droubi, S. Alshakshir, I. R. Abdelraziq. Second Palestinian International Conference on Material Science and Nanotechnology (PICNM2016). An Najah N. University New Campus, Nablus, Palestine, March 23-24, 2016.
 12. Natural dye-sensitized ZnO nano-particles as photo-catalyst in complete degradation of E. coli bacteria and their organic content. Hikmat Hilal, Ahed Zyoud, Majdi Dwikat, Samar Al-Shakhshir, Sondos Ateeq, Jumana Ishtaiwa, Amani Zu'bi, Muath Helal, Guy Campet, DaeHoon Park, Hansang Kwon, Tae Woo Kim, Maher Kharoof, Ramzi Shawahna. Journal of Photochemistry and Photobiology A: Chemistry 328 (2016) 207-215.
 13. ZnO nano-particles in complete photo-mineralization of gram negative bacteria and their organic content with direct solar light. Hikmat Hilal, Ahed

Zyoud, Majdi Dwikat, Samar Al-Shakhshir, Sondos Ateeq, Jumana Ishtaiwa, Muath Helal, Maher Kharoof, Suhad Al-Alami, Hassan Kelani, Guy Campet. Solar Energy Materials and Solar Cells 168 (2017) 30-37.