



## CURRICULUM VITAE

**Abeer Fayeز Mustafa Al-Bawab (عبر فایز مصطفى البواب)**

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Education			
Degree	Bachelor	Master	Ph.D.
University	University of Jordan ( UJ)	Clarkson University (CU)	Clarkson University (CU)
Graduation Date	Jan. 1991	Aug. 1996	May 1997
Specialization	Chemistry (First in class)	Chemistry	Physical Chemistry
Title of M.S. Thesis	Reaction between Aluminum Chloride and Octyldimethylmethoxysilane		
Title of Ph.D. Dissertation	Formation of Silica Iron Glasses		
Area of Specialization:	Colloid and Surface Chemistry		

Research Interests
<ul style="list-style-type: none"><li>➤ Applying Advance Colloid &amp; Surface Chemistry in Different Fields e.g Food, Water, Environmental, Nanoscience, <b>Material Science &amp; Conservation of Culture Heritage</b>, Cosmetics, Skin Care Products, Fragrances and Flavors Systems, Drugs.</li><li>➤ Chemical Education</li><li>➤ Studying Colloidal Solution Stability &amp; Phase Behavior and Diagrams&amp; Surfactant Systems in Different Environments; Emulsions, Microemulsions, Liquid Crystals, Micelles, liposomes and Foams.</li></ul>

Professional Experiences/ Academic Services			
Employer	Position Title	Date Served	
		From	To
Faculty of Science, Department of Chemistry, UJ	Professor of Physical Chemistry	2009	Present
Deanship of Academic Research	Dean	2014	Present
Hamdi Mango Center for Scientific Research, UJ	Director	2008	2014
Faculty of Science, Department of Chemistry, UJ	Associate & Assistant Professor of Physical Chemistry	May 2005 Sep. 1998	Aug. 2009 May 2005
Clarkson University, Potsdam, NY, Prof. R. Partch Lab. & Prof. Y. Li Lab.	Visiting Scientist	March2007 & June2001	August2007 & August 2001
Jordan University of Science and Technology, Irbid, Jordan	Full-time Lecturer	1997	1998
University of Jordan (UJ)	Member of University Council (Representative of Faculty of Science)	Sep. 2005	Sep. 2006
Faculty of Science, Department of Chemistry, UJ	Member of Faculty Council (Representative of Chemistry Department)	Sep. 2002	Sep. 2003
Faculty of Science, Department of Chemistry, UJ	Member of Academic Research or Graduate Studies Committee	Sep. 2005	Sep. 2013
Clarkson University, Potsdam, NY	Graduate Teaching & Research Assistant (Physical and General Lab)	Sep. 1993	May 1997
Clarkson University, Potsdam, NY	Graduate Teaching Assistant for ACS Short Course Titled: Surfactant Micelles, Liposome and Liquid Crystals in Emulsion and Microemulsion	May 1995/1996/1997 July 1994 & 1996	
Al-Jamia Secondary School, Amman, Jordan	Laboratory Supervisor	Sep. 1992	April 1993
Arab Pharmaceutical Manufacturing Co., Sult, Jordan	QA Chemist Analyzer	June 1991	June 1992
University of Jordan, UJ	Undergraduate Teaching & Research Assistant	Sep. 1989	June 1991

Teaching Experience	
Course	Level
General Chemistry I & II (101& 102)	Freshman
Experimental General chemistry (106) & (109)	Freshman
Experimental Physical Chemistry I & II (246 & 346)	Sophomore & Senior
Physical Chemistry I (241)	Sophomore
Colloid and Surface Chemistry (442 & 745)	Senior & Graduate

Research Output in Last 15 Years						
Type	Refereed Journals	Conferences	Invited Talks	Book	Chapter in Book	Review
Total Number	46	4	20	1	2	3

	Authors: Titles	Journal/ Book/ conference proceeding	Publishing Unit
1.	<b>Al Bawab, A.</b> Abu Dalo M , Abu Zurak R., Abu Malouh S., Bozeyya A Methods for Treatment of Olive Mill Wastewater (OMWW) In Jordan: A Review"	6th International Conference on Emerging Trends in Scientific Research	Kuala Lumpur, Malaysia. 2016
2.	<b>Al Bawab A.</b> , Al-Omari R. , Abd-Allah R. Preparation of Modified Sol- Gel Silica Coating for the Protection of Corroded Soda-Lime Silica Glass from Roman Period in Jordan: an Experimental and Analytical Study	<b>Journal of Non Crystalline solids</b> , Submitted 2016	<b>Elsevier</b>
3.	Odeh F., Ismai S., Abu Dahab R., <b>Al Bawab A.</b> , Development of DNA Aptamers against the ABL Tyrosine Kinase	J. Nuc. Acid Res, Submitted 2016	Oxford
4.	Odeh F., Ismai S., Abu Dahab, R., <b>Al Bawab A.</b> , Intracellular Liposome Delivery of Anti-Tyrosine Kinase Aptamers	J. Drug Delivery. Submitted 2016	Informa Healthcare USA, Inc.
5.	Sharar, M., <b>Al Bawab A.</b> , Al Bana L., Preparation of Janus Emulsion Formulation from Essential Oils with Fungicidal and Nematicidal Activities	Journal of Agriculture and Food Chemistry Submitted 2016	<b>Elsevier</b>
6.	Sharar M., Al Bana L., <b>Al Bawab A.</b> , Nematicidal and fungicidal activities of essential oils formulated in Janus emulsion	Journal of Nematicidal Submitted 2016	<b>Elsevier</b>
7.	Alshawawreh,F. Abu-Dalo,M., Al-Rawashdeh, N. , Bozeyya A., <b>Al Bawab A.</b> , Separation of soluble phenolic compounds from olive mill wastewater (OMW) using modified surfactant	J. of Envir. Manag. Submitted 2016	<b>Elsevier</b>
8.	<b>Al Bawab A.</b> , Abu Zurak R., Abu Malouh S., Bozeyya A., Dead Sea Salt and Mud Review	Arabian Journal of Chemistry Submitted 2015	<b>Elsevier</b>
9.	Hamati H, <b>Al Bawab A.</b> , Odeh F., Bozeyya A Abdallah R.,Preparation of Different Dispersions Formulation for Consolidation of Jordanian Basaltic Artifact	Journal of Archaeological Science, Submitted 2015	Elsevier
10.	<b>Al-Bawab A.</b> , Bozeyya A., Hasinovic H., and Friberg S. E., Three-Phase Surfactant-less Emulsions	Arabian Journal of Chemistry, 8(2), 246-254, <b>2015</b>	Elsevier
11.	Mehyar, G F, Al Bawab, A. Resistance to moist conditions of whey protein isolate and pea starch biodegradable films and low density polyethylene nondegradable films: a comparative study	IOP conference series Materials Science And Eng. 92 , 012- 013, <b>2015</b>	IOP Publ.IOP Conf on Adv. Mat. Sci. & Eng. JUST, Jordan 2015
12.	Pancera Aurelie, Al Bawab, A, First lessons learnt from the Mediterranean ERA-WIDE projects.	Options Mediteraneennes : series B, n71 p 63-78 2013	<b>CIHEAM</b>
13.	<b>Al Bawab A.</b> , Bozeyya A., Odeh F., Effect of Surfactant Tail Structure on Phase Behavior of Branched and Linear Alkylbenzene Sulfonate in Water and Oil Ternary Systems	GSTF International Journal of Chemical Sciences (JChem), 2014, 1(2), 32-39	Global Science and Technology Forum (GSTF)
14.	<b>Al Bawab A.</b> , Odeh F Na'es M., Al Ashqar H., Bozeyya A., Hamati H., Sharar M., Abdallah R., 2013, Conservation Materials and Archaeometry Techniques in Jordan (2000 – 2012): A Review	9 <sup>th</sup> International Symposium on the Conservation of Monuments in the Mediterranean Basin. Improvements in Conservation and Rehabilitation, Integrated Methodologies	Ankara, Turkey 2014 Conference
15.	Abu Dahab R., Odeh F, Ismai S., Hanan Azzam , <b>Al-Bawab A.</b> Preparation, characterization and antiproliferative activity of thymoquinone- $\beta$ -cyclodextrin self assembly nanoparticles	Pharmazie, 68: 939–944 (2013)	GOVI Verlag, Germany
16.	<b>Al Bawab A.</b> , Abdallah R., <b>Bozeyya A.</b> , Odeh F., Al Ashqar H., Jordan Conservation of Cultural Heritage in ER	Progress in Cultural Heritage Preservation-EUROMED 295-300, <b>2012</b>	EUROMED 2012 Conference, Cyprus
17.	Odeh F. , <b>Al Bawab A.</b> Fayyad M., Bozeyya A. Surfactant Enhanced Olive Oil Mill Wastewater Remediation	APCBEE Procedia, 5, 96-101, <b>2013</b>	Elsevier
18.	Bozeyya A. , <b>Al-Bawab A.</b> , Friberg S. E., Spontaneous Emulsification and Phase Equilibria in the System Water, Ethanol and Benzene	J. Disp. Sci. Tech., 34 (10), 1429-1436, <b>2013</b>	Taylor & Francis
19.	Bozeyya A. , <b>Al-Bawab A.</b> , Friberg S. E, Lingling Ge & Guo Rong Some experiments on complex spontaneous emulsification in the system water–	Colloid Polym Sci., 291, 1933-1938, <b>2013</b>	Springer

	benzene-ethanol		
20.	Bozeyya A., <b>Al-Bawab A.</b> , Friberg S. E Spontaneous Emulsification between Incompatible Aqueous Solutions in the Water /Benzene /Ethanol System	Journal of colloid and interface science (JCIS) Volume 395 issue 1, p. 161-165, 2013	Taylor & Francis
21.	<b>Al-Bawab A.</b> , Bozeyya A., Friberg S. E Spontaneous Emulsification in the System Water/Benzene/Ethanol: Phase Equilibrium and Emulsification Mechanism	Colloid & Surface A, Physicochemical and Eng. Aspects, 418, 1-6, <b>2013</b>	Elsevier
22.	Fasfous A., Asfar J., Hamdan M. Al-Salaymeh A., Sakhrieh A. Al Hamamre, Z and <b>Al Bawab A.</b> , Potential of utilizing Solar Cooling in The University of Jordan	Energy Conversion and Management, 65,729-735, 2013	Elsevier
23.	Odeh F, Ismai S., Abu Dahab R., <b>Al-Bawab A.</b> Thymoquinone in liposomes: A study of loading effecincy and biological activity towards breast cancer	Drug Delivery, 19(8): 371-377, <b>2012</b>	Informa Healthcare USA, Inc.
24.	Kayali I, Qamhieh K., Habjoqa F., <b>Al-Bawab A.</b> , Olsson U., Bemert L., Strey R., Phase behavior of microemulsions formulated with sodium alkyl polypropylene oxide sulfate and a cationic hydrotrope,	J.Disp. Sci. Techn. Volume 33, Issue 3, March <b>2012</b> , pages 369-373	Taylor & Francis
25.	Partch R. E., Stamper A., Powell E., <b>Al Bawab A.</b> , Odeh F. Medicine in Reverse: Colloid Technologies for Combating Chemical Overdoses”	Fine Particles in Medicine and Pharmacy Egon Matijević, Editor, 309 –340, <b>2011</b>	Springer
26.	Bozeyya A. , <b>Al-Bawab A.</b> , Friberg S. E., Guo R., Equilibration in a Geranyl Acetate Emulsion	Colloid & surfaces; A, (373) 110-115, <b>2010</b>	Elsevier
27.	El- Nahhal I. M., Zourab Sh. M., Kodeh F. S., <b>Al- Bawab A.</b> , Behavior of Phenol Red Immobilized Silica in Presence of Different Surfactants	Int. J. Environ. An. CH. 90(8) 644-656, <b>2010</b>	Informa UK Ltd
28.	<b>Al-Bawab A.</b> , Bozeyya A., Friberg S. E., Aikens, P. A., Geranyl Acetate Emulsions; Surfactant Association Structures and Stability	J. Disp. Sci. Tech. (31(2)) 606-610, <b>2010</b>	Taylor & Francis
29.	Odeh F., <b>Al-Bawab A.</b> , Li Y., Self-Assembly Behavior of Benzotriazole in Water	J.Disp. Sci. Techn. 30 (10), 162-168, <b>2010</b>	Taylor & Francis
30.	<b>Al-Bawab A.</b> , Alshannag Q., Abuhole I., The Effect of Using Computer, Multimedia System & Free Inquiry on Science Faculties Students for Practical Chemistry Learning on Acquiring Science Process Skills at the University of Jordan	Faculty of Education Journal , Ain Shams University, 33(1) 1-22, <b>2009</b>	Ain Shams University
31.	Friberg S. E., <b>Al-Bawab A.</b> , Bozeyya A., Aikens, P. A., Geranyl Acetate Emulsions; Surfactant Association Structures and Emulsion Inversion	J. Colloid Interfac. Sci., 336 (1) 345-351, <b>2009</b>	Elsevier
32.	<b>Al-Bawab A.</b> , Odeh F., Bozeyya A., Aikens, P. A., Friberg S. E., Comparison between Experimental and Estimated Evaporation Path from Emulsions	Flavour Fragr. J., 24, 155-159, <b>2009</b>	John Wiley & Sons
33.	Saadeh R. H., Al-Jabari M., Abdo A. A., <b>Al-Bawab A.</b> , Stability Study of Green Tea Natural Extract in Aqueous Solutions and its Chemical Kinetics	Dirasat, 36 (1), 62-75, 2009	DAR, UJ
34.	Friberg S. E., <b>Al-Bawab A.</b> , Odeh F., Bozeyya A., Aikens, P. A., Emulsion Evaporation Path. A First Comparison of Experimental and Calculated Values	Colloid & Surfaces; A, 338, 1-3, <b>2009</b>	Elsevier
35.	Bozeyya A., <b>Al-Bawab A.</b> , Fayyad M., Method development for analysis of Linear and Branched alkyl benzene sulfonates	Fresen. Environ. Bull., 18 (3) 590-600, <b>2009</b>	EVISA
36.	Al- Jabri M., <b>Al-Bawab A.</b> , Abdo A. A., Stability Study of the Natural Extract of Echinacea purpurea in Aqueous Solutions	Dirasat , 35 (1), 27-37 <b>2008</b>	DAR, UJ
37.	Friberg S. E., <b>Al-Bawab A.</b> , Abdo A. A., Surface Activity Inverse Micelles	Colloid Polym Sci., 285 (14), 1625-1630, <b>2007</b>	Springer
38.	<b>Al-Bawab A.</b> , Al-Zamar T., Friberg S.E., An "O/S" Emulsion in a System Containing Tween 80 Surfactant and Hexadecane Oil	J. Surfactant and Detergents, 10, ( 4) 195-200, <b>2007</b>	Springer
39.	<b>Al-Bawab A.</b> , Zarobi S., Evaporation of Fragrance Substances from Emulsions: Geranyl Acetate versus Limonene (ArabicLang.)	Dirasat , 34 (2) 133-143, <b>2007</b>	DAR, UJ
40.	<b>Al-Bawab A.</b> , Kayali I., Amphiphic Association of Flavor Substances in Oil; the Importance of Molecular Interactions (Arabic Lang.)	Dirasat, 34 (2), 125-132 , <b>2007</b>	DAR, UJ
41.	Friberg S. E., <b>Al- Bawab A.</b> , Some Non-equilibrium Phenomena in the Malic Acid / Water / Polysorbate 81 System	Int. J. Pharm. 322,140-146, <b>2007</b>	Elsevier
42.	<b>Al-Bawab A.</b> , Friberg S.E., Some Pertinent Factors in Skin Care Emulsion	Adv. Colloid Interface Sci., 123-126, 313-322, <b>2006</b>	Elsevier
43.	Friberg S. E., <b>Al-Bawab A.</b> , Phase Behavior of Beta Hydroxy- Acids with Laureth 4	J. Pharm. Scien, 95(8), 1834-1840, <b>2006</b>	Elsevier
44.	<b>Al- Bawab, A.</b> Beta-Hydroxy Acids from the formulation point of view	J. Disp. Sci. Tech., 27, 697-701, <b>2006</b>	Taylor & Francis
45.	Friberg S.E, <b>Al-Bawab A.</b> , Analytical Expression to Calculate Relative Amounts of Phase in a Three-Component Phase Diagram: Fragrance Evaporation	Langmuir, 21, 9896-99000, <b>2005</b>	ACS
46.	<b>Al-Bawab A.</b> , Heldt N., Li Y., Emulsified Orange Oil in an Aqueous Vesicle Solution	J. Disp. Sci. Tech. 26(2), <b>2005</b> .	Taylor & Francis
47.	<b>Al-Bawab A.</b> , Friberg S.E., Fusco C., Evaporation of a Model Skin Lotion with Beta Hydroxy- Acids	Int. J. Cosmt. Sci., 26 (5), <b>2004</b>	Soc. of Cosm. Scient. & Sons
48.	<b>Al-Bawab A.</b> , Friberg S.E., Amphiphilic Association Structures in a Model Skin Lotion with Hydroxyl Acids	Int. J. Cosmt. Sci., 26(3), 139, <b>2004</b>	Soc. of Cosm. Scient. & Sons
49.	<b>Al-Bawab A.</b> , Abuhola I., Alshannag Q., The Effect of Teaching Chemistry by Using Computer ( <b>Dry Lab</b> ) on Faculty of Science Students’ Scientific	Educational Sciences, Dirasat Journal 31(2) 409 – 432, <b>2004</b>	DAR, UJ

	Attitudes at the University of Jordan ( <b>Arabic lang.</b> )		
50.	<b>Al-Bawab A.</b> , Abuhola I., Alshannag Q., The Effect of Using Dry Lab Strategy on Science Students' Achievement at the University of Jordan ( <b>Arabic lang.</b> )	Educational Sciences , Dirasat Journal 31(2) 318 – 337, <b>2004</b>	DAR, UJ
51.	<b>Al-Bawab A.</b> , Investigation of the Phase Behavior and Vapor Pressure Study of Lavender Oil/ Water/ Laureth 4 and Tween 80	J.Cosmet. Sci., 54(5), 429, <b>2003</b>	Society Cosm. Chemists
52.	<b>Al-Bawab A.</b> , Friberg S.E., Aikens P.A., The Phase Behavior of $\alpha$ -Hydroxyoctanoic Acid / Laureth 4 / White oil / Water System and Preliminary Evaluation of the Phase Changes During Evaporation	J. Cosmet. Sci., 53(3), 151, <b>2002</b>	Society of Cosmetic Chemists.
53.	Friberg S.E., <b>Al-Bawab A.</b> , Sandburg J.D., Barber J., Yin Q., Phase Behaviour of a Fragrance Compound System: Water / Phenethyl Alcohol / Laureth 4 / Glycerol	J. Surfactants & Detergents, 2 (2), 159, <b>1999</b>	Springer
54.	Friberg S.E., <b>Al-Bawab A.</b> , Barber J., Phase Equilibria in the Systems of Acetic and Glycolic Acid with Water and Laureth 4	J. Disp.Sci. Tech., 19, 399, <b>1998</b>	Taylor & Francis
55.	<b>Al-Bawab A.</b> , Friberg S.E., Sjöblom J., Farrington G., Sol/Gel Glass with Ferric Nitrate Hydrate, Temperature Dependent Transition	Phys. Chem. Glasses, 39(2), 122, <b>1998</b>	Sci.&Techn. Facil. Council
56.	<b>Al-Bawab A.</b> , Friberg S.E., Sjöblom J., Farrington G., Sol/Gel Glass with Ferric Nitrate Hydrate, Temperature Dependent Transition II) High Concentration of Iron in the Glass	J. Disp. Sci.Tech., 19(5), 613, <b>1998</b>	Taylor & Francis
57.	<b>Al-Bawab A.</b> , Friberg, S.E., Zuman P., Sjöblom J., Reaction between Tetraethoxysilane and Chloral in Methanol. A <sup>29</sup> Si NMR Investigation	J. Disp. Sci.Tech., 19(5), 571, <b>1998</b>	Taylor & Francis
58.	Friberg S.E., Szymula M., Fei L., Aikens P.A., Barber J., <b>Al-Bawab A.</b> , Vapor Pressure of a Fragrance During Evaporation in Simple Emulsion	Int. J. Cosmet. Sci., 19, 259, <b>1997</b>	Soc. of Cosm. Scient. & Sons
59.	<b>Al-Bawab A.</b> , Formation of Silica Iron Glasses	Ph.D Thesis, CU, NY, USA, <b>1997</b>	Clarkson University
60.	Friberg S.E., <b>Al-Bawab A.</b> , Sjöblom J., Farrington G., Nie W., A Reaction between Aluminum Chloride and Octyldimethylmethoxysilane	Colloids Surfaces A, 105, 251, <b>1995</b>	Elsevier

### Presentations in Conferences and Meeting

	Conference Name	Presentation Title	Conference Date and Place
	Tourism Management & Heritage Conservation		Hashemite University , Zarqa –Jordan 15-18 March 2016
	Conservation work in Jordan: What has been done and what is needed		
	The 1 <sup>st</sup> International Conference on Natural Products & Drug Discovery		The University of Jordan 8-10 September 2015 Amman – Jordan
	NASIC Conference cum Workshop on Herbal Drug Development for Socio-Economic Uplift in Developing World		The University of Jordan 6-8 September 2015 Amman – Jordan
	لمؤتمر الكيميائي الأردني الرابع عشر		٢٠١٥/٤/8
	المؤتمر العربي لتطوير البحث العلمي		
1	International training workshop in conservation and management of stone buildings	JOCHERA, A Success Story for Jordanian-European Capacity Building Project	Amman Jordan April 2014
2	Deserts 2014, Man and the Deserts	Preparation of Different Dispersions Formulation for Consolidation of Jordanian Basaltic Artifact & JOCHERA	Amman Jordan March 2014
3	Water in the Arab world, status, Challenges and opportunities ( WAWCO 2014)	Surfactant Enhanced Olive Oil Mill Wastewater Remediation	Amman Jordan Feb 2014
4	Cultural Heritage Conservation Science and Sustainable Development	-JOCHERA, Jordan Conservation of Cultural Heritage in ERA -Preparation of Different Dispersions Formulation for Consolidation of Jordanian Basaltic Artifacts	Oct <b>2013</b> , Paris, France
5	IUPAC2013	- Preparation of different dispersions formulation for consolidation of Jordanian basaltic artifacts -JOCHERA, Jordan Conservation of Cultural Heritage in ERA -Conservation Materials and Archaeometry Techniques in Jordan	August <b>2013</b> , Istanbul ,Turkey
6	APCBEEES 2013	Surfactant Enhanced Olive Oil Mill Wastewater Remediation	Jan <b>2013</b> , Dubai, UAE
7	World Arcology Conference 7 (WAC7)	JOCHERA, Jordan Conservation of Cultural Heritage in European research area Conservation Materials and Archaeometry Techniques in Jordan (2000 – 2012): A Review	Jan <b>2013</b> Dead sea, Jordan
8	International Conference on Cultural Heritage, EUROMED 2012	JOCHERA, Jordan Conservation of Cultural Heritage in European Research Area	Oct 2012 , Lemesos, Cyprus

9	244 <sup>th</sup> ACS National Meeting	i) Medicine in Reverse: Colloid Technologies for Combating Chemical Overdoses ii) Surfactant Enhanced Remediation of Polluted Water	August, <b>2012</b> Philadelphia USA
10	6 <sup>th</sup> Jordanian International Conference of Chemistry	Surfactant less Emulsion	Yarmouk University, Irbid, Jordan April <b>2011</b>
11	8 <sup>2</sup> ACS Colloid and Surface Science Symposium & 13 <sup>th</sup> IACIS International Conference	Comparison of Calculated and Experimentally Determined Evaporation Path from an Emulsion	New York City, USA, June <b>2009</b>
12	9 <sup>th</sup> Jordanian Chemical Conference	Comparison of Calculated and <i>Experimentally</i> Determined Evaporation Path from an Emulsion	Hashemite University, Jordan, April <b>2009</b>
13	Nanostructure Advance Material And Technology	Microemulsions Containing Short Chain Anionic and Cationic Surfactant for Enhanced Oil Recovery (EOR)",	UJ, Amman- Jordan, Nov. <b>2008</b>
14	Nanostructure Advance Material And Technology	Analysis for a Pi-Pi Complex Interaction Between Toxin and Antidote Molecules Complex using dynamic NMR and AFM Analysis	UJ, Amman- Jordan, Nov. <b>2008</b>
15	Nanostructure Advance Material And Technology	SELF-ASSEMBLY BEHAVIOR OF BENZOTRIAZOLE IN WATER	UJ, Amman- Jordan, Nov <b>2008</b>
16	233 <sup>rd</sup> ACS National Meeting	An Oil in Surfactant Emulsion and Water- less Emulsion	Chicago, IL USA March, <b>2007</b>
17	7 <sup>th</sup> Jordanian Chemical Conference	The Role of Colloidal Structures in Emulsions For Topical Formulations	Al al-Bayt University, Jordan, March, <b>2007</b>
18	8 <sup>0</sup> ACS Colloid and Surface Science Symposium	Some Non-Equilibrium Phenomena in the Malic Acid /Water / Polysorbate 81 System	Boulder University Colorado, USA, June <b>2006</b>
19	7 <sup>9</sup> ACS Colloid and Surface Science Symposium	Salicylic Acid Vesicle Solutions, Emulsions and their Combinations" & "Some Phase Diagrams of Fruit Acids and the Consequences in their Application for Skin Lotions	Clarkson University, Potsdam, NY, USA, June <b>2005</b>
20	6 <sup>th</sup> Jordanian Chemical Conference	Amphiphilic Association of Flavor Substances in Oil; The Importance of Molecular Interactions	Hashemite University, Jordan, Dec. <b>2005</b>
21	1 <sup>7</sup> ECIS Conference (European Colloid and Interface Science)	Particle Size and Vapor Pressure of Orange Oil Droplets Stabilized by Liposomes	Firenze, Italy, Sep. <b>2003</b>
22	12 <sup>th</sup> Arabic chemical meeting & 5 <sup>th</sup> Jordanian Chemical Conference	Emulsion Orange Oil in an Aqueous Vesicle Solution	Amman, JORDAN, Oct. <b>2003</b>
23	29 <sup>th</sup> Northeast Regional meeting of the ACS (NERM 100)	Phase Behaviour of a Fragrance Compound System: Water / Phenethyl Alcohol/Laureth 4/Glycerol	Mass. USA, June <b>2001</b>
24	28 <sup>th</sup> Northeast Regional meeting of the ACS( NERM 99)	The Phase Behavior of $\alpha$ -Hydroxyoctanoic Acid / Laureth 4 / White oil / Water System and Preliminary Evaluation of the Phase Changes During Evaporation	Potsdam NY, USA, June <b>2000</b>
25	COSMO Amman first & second & third	i) Investigation of the Phase Behavior and Evaporation Study of a System of Lavender oil/ Water/ Laureth 4 and Tween80 ii) Amphiphilic Association Structures in a Model Skin Lotion with Hydroxyl Acids iii) Phase Equilibria in the Systems of Acetic and Glycolic Acid with Water and Laureth 4	Amman, JORDAN, June <b>1999/2000/2001</b>
26	4 <sup>th</sup> Jordanian Chemical Conference	Vapor Pressure of a Fragrance During Evaporation in Simple Emulsion	JUST, Irbid JORDAN, Nov. <b>1999</b>

### Attended Conferences and Meeting

6 <sup>th</sup> & 5 <sup>th</sup> & 4 <sup>th</sup> & 3 <sup>th</sup> Jordan National Tempus Day	2012 / 2011 / 2010/ 2009 Amman, Jordan
5 <sup>th</sup> Conference of Scientific Research in Jordan	Amman, Jordan, Nov 2011
Energy Conference	University of Jordan , Amman, Jordan / 2011& 2012 & 2013
3 <sup>rd</sup> German- Jordanian Workshop ( Energy) 2010	University of Jordan Amman Jordan Oct 2010
11 <sup>th</sup> Eurasia Conference on Chemical Sciences	Dead Sea, Jordan Oct 2010
14 <sup>th</sup> international Biotechnology Symposium and Exhibition	Rimini Italy, Sep 2010
-The Technology Transfer Conference Annual Conference "Building on 10 years of success ---The Technology Transfer Conference Annual Conference "Best Practices in Transfer of Science and Technology	Paris, France, <i>May 2010</i> Ghent, Belgium, <i>May 2009</i>
The Technology Transfer Conference: Accelerating the Knowledge Economy through the Commercialization of R&D, iPARK/ the Higher Council for Science and Technology in collaboration with the US Patenting and Trademark Office (USPTO)	Royal Scientific Society, EL Hassan Science City, Amman, Jordan, <i>Oct. 2009</i>
Science & Technology for Sustainable Development 14 <sup>th</sup> Science week	El Hassen Science City, Amman Jordan, <i>May 2009</i>
The Int. Conf. on Material in Jordan	Humboldt Kolleg, German -Jordanian University, <i>March 2009</i>
Arab Women IN Academic Sciences and Tech. towards Sustainable Development	JUST, Jordan , <i>Nov. 2008</i>
8 <sup>th</sup> Jordanian Chemical Conference	Petra University, Amman Jordan, <i>April 2008</i>
Particles Technology"Camp meeting"	NY USA , <i>May 2007</i>
70 <sup>th</sup> Colloid & Surface Symposium	NY, USA, June 1996

### Responsibility, Professional Training & Workshop

Type	Topic	Date and Place
Member	HEREs (Higher Education Reform Experts) appointed by the Education, Audiovisual, and Culture	Sep 2014- Present, Jordan

	Executive Agency at the European Commission in Brussels  The Editor-in-Chief for Dirasat, Published by The University of Jordan, Amman, Jordan, 2015-present, Jordan  The Editorial board for JJC (Jordan Journal of Chemistry, Published by Yarmouk University, Irbid, Jordan)  The Editorial board for , Universal Journal of Chemistry, Published by Horizon Research Publishing(HRPUB) , USA The Editorial board for , American Journal of Applied Chemistry, Published by Science PG,NY USA Technical Committee & Reviewer in ICESD 2014, Singapore, Organizer APCBEES, Hong Kong	Sep 2014- Present, Jordan  2011- Present, Jordan  2013-Present , USA
Reviewer 10 papers per year	For the following peer-reviewed journals <ul style="list-style-type: none"> <li>✓ Journal of Colloid and Interface. Science, published by Elsevier</li> <li>✓ Chemistry and Physics of Lipids published by Elsevier</li> <li>✓ Jordan Journal of Chemistry. published by Yarmouk University, Irbid , Jordan</li> <li>✓ Arabian Journal of Chemistry, published by Elsevier</li> <li>✓ Drug development and industrial pharmacy,</li> <li>✓ Flavour and Fragrance Journal, published by Elsevier</li> <li>✓ Industrial &amp; Engineering Chemistry Research, published by Elsevier</li> <li>✓ Colloids and Surfaces A: Physicochemical and Engineering Aspects, published by Elsevier</li> <li>✓ International Journal of Pharmaceutics, published by Elsevier</li> </ul>	Present
Evaluator 4 /year	Scientific Promotion for Certain Universities	2008- Present
Officer Lear	Technology Transfer office ( <b>TTO</b> ) inside University of Jordan European Projects inside University of Jordan	Jan 2010-Present
Liaison Officer	For the SRTD inside University of Jordan ( Support Research and Technology Development and Innovation and Strategies in Jordan which was a Programme in the HCST )	July 2009-Present
Participant	USAID JCP Water Management Workshop	Feb 2014
Participant	<b>Training Workshops for the H20/20 calls</b> Difference between FP7 and H 20/20 , Main themes of <b>H20/20</b>	2013-2014
Participant	<b>Training Workshops for the FP7 Program</b> Writing Proposal & Proposal Evaluation, How to become an evaluator & FP7 contract Negotiation and finance training & FP7 Advisor& Identifying Viable IP in a Research Institute & IP Protection & Exploitation Workshop	2009-2010
Participant	Establishing Technology Transfer Offices in MENA Universities and Research Institutes	Praxis for TT training UK, Amman Jordan, April 2010
Participant	Bridging Science and Business: Laying the Foundations Workshop	Jordanian Royal Scientific Society, Amman Jordan, Dec. 2009
Participant	Technology Transfer: Accelerating the Knowledge Economy through the Commercialization of R&D Conference & Workshop	Higher Council for Science and Technology ( HCST), Oct 2009
Participant	Media Go To Europe Workshop	El Hassan Science City, Amman Jordan Oct 2009
Participant	Training course Chemical Safety & Security Workshop	JUST 2009
Participant	Training course Training of Trainers Workshop	UJ 2003
Participant	Training course Relology & Viscosmetry	Jordan 2001
Participant	Training course, Teaching with Technology	UNESCO, JU, 2001 & UNESCO, Egypt, 1999

Scientific Awards		
Organization Name	Type of Award	Date
American Embassy	Hall of Fame, Woman in <i>Science</i>	2014
League of Arab States, Arab Women Organ.	Arab Women Award in <i>Science and Technology</i> for Development	2011
University of Jordan	Distinguish <i>Researcher</i>	2011
University of Jordan	One year seniority in rank promotion to a <i>Professor</i> due to the distinguish research work	2008
Clarkson University, NY, USA	Recipient of scholarship for 4 years towards the Ph.D	1993-1997
American Chemical Society	Recipient of ACS Research Account for one year 93/94. (first year Ph.D)	1994
The University of Jordan	Ranked the First in BS	1991
Jordanian Chemical Society	Recipient of Excellence in Chemistry Prize (High School (Taujah in Jordan))	1987

<b>Master Students Supervision</b>
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Student Name	Thesis title	Advisor	Date
Noor Ghannam	Develop a cost effective media for activated carbon particles impregnated with active materials for treatment of olive mill waste water	Main Advisor	2016
Tahani Bozeyya	Thermoluminescence properties of doped SiO <sub>2</sub> glass	Co Advisor	2016
Reema Al Omari	Preparation of a modified Sol-Gel silica coating for the protection of corroded Soda-lime-silica (Na <sub>2</sub> O-CaO-SiO <sub>2</sub> ) glass from Roman period in Jordan: An experimental and analytical study	Main Advisor	2015
Fida'a Al Shawawreh	Separation of soluble phenolic compounds from olive waste water OMW using modified surfactant	Main Advisor	2015
Hiba Hamaty	Preparation of Different Dispersions Formulation for Consolidation of Jordanian Basaltic Artifact	Main Advisor	2013
Mona Sharar	Preparation of Janus Emulsion Formulation from Essential Oils with Fungicidal and Nematicidal Activities	Main Advisor	2013
Fuad Habjouqa,	Use of Microemulsion Containing Short Chain Anionic and Cationic Surfactant for Enhance Oil Recovery ( EOR)	Main Advisor	2011
Ayat Abed Al-Hafed Bozeyya	Method Development for Analysis of Linear and Branched Alkyl Benzene Sulfonates and Comparison of their Phase Behavior in Water and Oil Ternary systems	Main Advisor	2008
Rajae Hani Saadeh	Stability Study of Green tea and their kinetics study	Main Advisor	2007
Majida Al-Jabari	Stability Study of Alkylamides in the Natural Extract of Echinacea Purpurea (Herb) in Aqueous Solutions	Main Advisor	2005

Master Thesis and Ph.D Dissertation Examining Committees				
Student Name	Supervisor	Thesis Title	University	Date
Muna Al-Batayneh	Prof. Manar Fayyad	Role of a Competent Performance Indicators(PI) System in the Enhancement of Water Services Provision	Water Center, UJ	Jan 2014
Hida Hasinovic	Prof. S.E Friberg	A One-Step Process to Prepare Triple Janus Emulsions	Ray University (USA)	December 2012
Dua' AbuRmaileh	Dr Fadwa Odeh	Synthesis and characterization of zeolite Na-P1 derived from metakaolinite and study of its efficiency in drug delivery and release	Chemistry Department, UJ	May 2011
Rabab Al-Bashiti	Raed A. Al-Qawasmeh	Synthesis and properties of some 9-aryl-4-fluoro-6-oxo-6,9-dihydro-[1,2,5]thiadiazolo[3,4-h]quinoline-7-carboxylic acids and esters	Chemistry Department, UJ	August 2010
Amal Fahed Al-khazalah	Dr. Raed Ghanem	Photophysical Properties of Terbutaline	Chemistry Department, Al-al-bayt University	Jan. 2010
Ibrahim Alam-Eddin Abdel-Rahim	Dr. Ehab Al-Shamaileh	Equilibrium and thermodynamic study of the inclusion complexes of cyclodextrins with m-Methyl red in aqueous media	Chemistry Department, UJ	August 2009
Jameel Sulieman Al Jariri	Prof. Fawwas Khalili	Removal of Pb(II), Mn (II) and Cr (III) from Wastewater Using Jordanian Bentonite	Chemistry Department, UJ	May 2009
Rana N. Zahdeh	Prof. Ribhi El- Zaru	Kinetics of Oxidation of Cysteine and Captopril VIA Cs <sub>3</sub> [Mo(CN) <sub>6</sub> ] And Cs <sub>3</sub> [W(CN) <sub>6</sub> ]	Chemistry Department, UJ	Nov 2005
Mohammad M. Al-Yamani	Prof. Ribhi El- Zaru	Kinetics of Oxidation of ascorbic acid and Benzoin VIA Co (III) and Cu ( III) complexes	Chemistry Department, UJ	Aug 2004
Hena M.Abu Amara	Prof. Enam Khalil	Prediction of Microemulsion Existence Area in the ternary phase Diagram	Pharmaceutical Science, UJ	May 2001
Shaif Mohammed Saleh	Prof. Mohmoud Alawi	Determination of the pollution levels in the curing mud of the dead sea with heavy metals by AAS	Chemistry Department , UJ	March 2001
Shefa A. Al Shawa	Prof. Mohmoud Alawi	Development of an HPLC / LELCD Analytical Method for the Determination of Caffeine Theophylline, Therobromine and Adenine	Chemistry Department, UJ	May 2000

Funded Research Projects					
	Name of Project	Funding Agency	Year	UJ Share (JD)	Total Funding
1	Heterogeneous Photocatalysis and Electrochemical Treatment of Textile Wastewater by Nano-sized (M <sub>v</sub> O <sub>v</sub> Zr <sub>v</sub> )	Scientific Research Fund ( Jordan )	2015-2017	10650	10650
2	Economical Sequestering of Phenolic Compounds from Olive Mill Wastewater Using Modified Surface Active Materials	MENA NWC Water Innovation Fellowships (WIF) Small Grants Program ( FABRI)	2015-2016	18,000	\$ 50,000
3	Restoration and Rehabilitation of the Roman Nymphaeum in Amman	Ambassador's Fund for Cultural Preservation (AFCP) U.S. Embassy in Amman, Jordan	2014-2016	140,000	\$ 198,000
4	The First Stage of the proposed study and research for Dead Sea pre final product modification	Arab Potash Company, Jordan	2013-2015	150,000	150,000
5	WATER REUSE in Mediterranean countries	FP7 – EU- Marie curie	2012-2013	30,000	300,000 euro

6	Visiting scholar from USA to UJ (HMCSR )	Fulbright-USA	2012	7,000	\$ 10,000
7	Jordan Conservation of Cultural Heritage in ERA (JOCHERA)	FP7- EU ERA-wide	2012-2014	150,000	500,000 euro
8	Energy project (solar cooling ) SOLAR AIR CONDITIONING	DAR, UJ	2010-2013	60,000	60,000
9	Targeted- Delivery of Macromolecular Drugs (Aptamers) to Cancer cells	Scientific Research Fund, Jordan	2010-2012	60,000	60,000
10	Targeted- Delivery of Macromolecular Drugs (Aptamers) to Cancer cells	DAR, UJ	2009-2011	20,000	20,000
11	Surfactant Enhanced Remediation of Polluted Water	DAR, UJ	2009-2011	20,800	20,800
12	Investigation for the Oil in Surfactant and the Waterless Emulsion	DAR, UJ	2005-2007	10,700	10,700
13	The Effect -Of Teaching Practical Chemistry BY Using Computer (Dry Lab Strategy) and Multimedia System & Free Inquiry on Faculty of Science Students'-on the Achievement &Scientific Attitudes& Acquiring Science Process Skills	Higher Council for Science and Technology (Jordan)	2001-2004	20,000	20,000
14	Preparation of Free Alcohol Beer	Higher Council for Science and Technology (Jordan)	2001-2002	7,000	7,000
15	Stabilization of Some Natural Extract for Topical Application	DAR, UJ	2001-2003	10,000	10,000
	Investigation of the Phase Behaviour of the Natural local Fragrance Solution	DAR, UJ	1999-2001	7,000	7,000
	Total JD			721,000	1,358,000
	Total \$			1,018,000	1918,000

Relevant Skills		Computer Skills			
<ul style="list-style-type: none"> <li>Small Angle X-ray Diffractometry / X-ray Diffractometry</li> <li>Ultraviolet-Visible Absorption &amp; Fourier Transform Infrared Spectroscopy</li> <li>NMR / SEM/ Optical Microscopy/ Viscometer/ Tensiometer</li> <li>DSC /TGA / DTA/ TLC/ HPLC</li> <li>Particle Size Analyzer with zeta potential</li> </ul>		<ul style="list-style-type: none"> <li>MS office/ WordPerfect</li> <li>MicroCal Origin Peakfit</li> <li>Tablecurve /Excel</li> <li>Window</li> <li>Front page/ PowerPoint</li> </ul>			
Other					
Preparation of some courses and teaching them totally with computer as on line courses. 1-Physical Chemistry 1 (241) (undergraduate level). 2- Colloid and Surface Chemistry (442& 745) graduate and undergraduate levels.					
Professional Membership					
<ul style="list-style-type: none"> <li><b>President</b> of the Jordanian Chemical Society (<b>JCS</b>) since 2013</li> <li><b>Vice President</b> for Association of Jordanian Women Academics since 2014.</li> <li>A member of <b>the Board of Trustees</b> of Princess Sumaya University for Technology (<b>PSUT</b>) in Amman, Jordan since 2014</li> <li>ACS (American Chemical Society)</li> <li>ASTP (Association of European Science and Technology Transfer Professionals)</li> <li>European Colloid Society</li> <li>Jordanian Chemical Society</li> <li>Graduates of US Universities and Institutes Society</li> <li>Jordanian Scientific Research Society</li> </ul>					
Personal					
Date of Birth	March 19- 1970	Nationality	Jordanian	Status	Married with 4 children
Languages	Arabic (Excellent), English (Excellent), French (Fair)				
Names Appeared in Internet Research	A. Al Bawab, A. A. Bawab, Al Bawab A., Albawab A				