

## Curriculum Vitae

# SIHAM YOUSUF ALQARADAWI, PHD, FRSC

أ.د. سهام يوسف القرضاوي

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### Professor of Organic Chemistry

Department of Chemistry & Earth Sciences - College of Arts & Sciences  
Qatar University, P. O. Box. 110003 - Doha - Qatar

<http://scholar.google.com/citations?user=yBJUfScAAAJ&hl=en>



**H -index : 11 ( Nov. 2015 )**  
**ORCID: 0000 - 0003 - 0885 - 8194**  
**Researcher ID: J - 1256 - 2014**

### My Profile At Glance:

I have been teaching for the past thirty four years at Qatar University. During my career, I have taught many Organic Chemistry courses, including photochemistry & Research project. My research interests include Carbon dioxide conversion, Lithium Battery and organic solar cells.

My Elsevier's Scopus H-index is 11 with 400 total citations. I have received various competitive grants as principal investigator from the Qatar National Research Fund, including Five National Priorities Research Program fund (NPRP) and Undergraduate Research Experience Program (UREP). I have authored over 25 peer-reviewed publications in international journals and over 15 research abstracts and posters. I received the Fulbright Research Scholarship in 2011. I am supervising many students, research assistants and postdoctoral fellows in my lab and acted as a reviewer for many Chemistry journals. I served as a Dean of College of Arts & Sciences for five years. This deanship produced the accreditation of the chemistry program by the Canadian Society of Chemistry and accreditation of the biomedical program by NAACLS.

### Personal information:

- **Office Tel. No:** +974 44034666
- **Fax no.** +974 44835750
- **Cell phone:** +974 55507904
- **E-mail :** [siham@qu.edu.qa](mailto:siham@qu.edu.qa),
- **Gender:** Female
- **Marital Status:** Married
- **Nationality** Qatari



- **Jan. 1988 – June 1992**  
Lecturer, Dept. of Chemistry, Faculty of Science, Qatar University, Qatar
- **Oct. 1981 – Dec. 1987**  
Teaching Assistant, Dept. of Chemistry, Faculty of Science, Qatar University, Qatar

### Academic Committees:

**I served on numerous Departmental, College, University, and State of Qatar Committees. Below are the list of these committees:**

#### **1] International level:**

- Member, the International Steering Committee for MED GREEN FORUM, Florence, Italy, 26-28<sup>th</sup> **August 2015**.
- Member, the international steering committee for the World Renewable Energy Congress XIII and Exhibition 2014, Kingston University, 3-8<sup>th</sup> **Aug. 2014**, UK
- Member, the Scientific Committee for the International Arab Conference on Quality Assurance in Higher Education, IACQA, Association of Arab Universities, **since 2011**.
- Member, the Organizing Committee for the International Arab Conference on Quality Assurance in Higher Education, IACQA, Association of Arab Universities, **since 2011**.
- Member, the International Steering Committee for World Renewable Energy Congress WERC 2011, **May 2011**, Linköping, Sweden.

#### **2] National level:**

- Member, External Reviewers Committee for licensing & Accrediting study programs and for institutional Auditing in State of Qatar, the Higher Education Institute Affairs Office [**HEIAO**], the Supreme Education Council, **Dec. 2014, Doha, Qatar**.
- Member, Review Committee for Primary Resources for Teaching Science [Chemistry]. Worked with Secondary Education Council in Qatar for the development of the National Curriculum of Chemistry of Grade 11 & 12, **Feb. 2012 - Feb. 2013, Doha, Qatar**.
- Member, the Committee for Establishing the Renewable Energy Center in the GCC region, **Sept. 2010**.
- Member, Environmental Performance Award Committee, Ministry of Environment, **2007 – 2009, Doha, Qatar**

### **3] Qatar University level:**

- Member, Promotion Committee, Center of Advanced Materials (CAM), QU, Nov. 2015
- Member of the working group, QU Strategic Planning Committee, Feb. 2009-Jan. 2010
- Member, Academic Information Technology Advisory Committee, March 2009-Jan. 2010
- Member, QU Dean's Council, Sept. 2005 – Jan. 2010
- Member, QU Students Affairs committee, Sept. 2004 – Aug. 2005
- Member in the QU IT Committee, Nov. 2005 - Oct. 2006
- Member in the Committee for Establishing "Academic Performance Appraisal System" Oct. 2003-Sept. 2004

### **4] College Level:**

- Chair, CAS Recruitment Committee, 2005 - 2010
- Chair, CAS Strategic Planning Committee, 2005 –2007
- Chair, CAS Budget Preparation Committee, 2005 –2007
- Chair, CAS Academic Promotion Committee, 2005 –2008
- Member, CAS Academic Promotion Committee, 2008 –2010
- Member, CAS Advisory Committee, 2009 – 2010.
- Member, CAS Search Committee for Qatar Shell Chair for Sustainable Development, 2006-2008.
- Chair, Admission Committee for the Arabic for non-native speakers (ANNS) Program, CAS, Sept. 2005 – Aug. 2009
- Chair, Occupational Health & Safety Committee, Faculty of Science, 2001 – 2004
- Member, Students Affairs Committee, Faculty of Science, 1998-2004

### **5] Chemistry Dept. Level:**

**I served on numerous departmental committees. Below only a list of the most significant committees:**

- **Chair**, Study plan & Curriculum Committee, Oct. 2012 - present.
- Member, Research Committee, Sept. 2014 – Present.
- Member, Program Learning outcomes Committee, Sept. 2015- present
- Member, Recruitment Committee, Nov. 2015- present
- Member, Faculty Performance Review and Development System, Nov. 2015- present
- Member, Program learning outcomes Committee, Feb. 2013- Aug. 2014.
- **Chair**, Research & Professional development committee, Oct. 2012- Sept. 2013.
- Member, seminars & workshops committee, Oct. 2012- Sept. 2013.

- **Chair**, seminars & workshops committee, Oct. 2011-Sept. 2012.
- Member, Textbook committee, Sept. 2011-Sept. 2012.
- **Chair**, Students Affairs Committee, Chemistry Dept., Faculty of Science, 1997-2004
- Member, Scientific Secretary Committee, 2<sup>nd</sup> International Conference on Chemistry and its Applications, Qatar University, Doha, Qatar, Sept. 2002 – Dec. 2003.
- Member, Reception Committee, 2<sup>nd</sup> International Conference on Chemistry and its Applications, Qatar University, Doha, Qatar, Sept. 2002 – Dec. 2003.
- Member, Scientific secretary committee, 1st International Conference on Chemistry and its Applications, Qatar University, Doha, Qatar, Sept. 1993 – Dec. 1993.
- Member, Reception committee, 1st International Conference on Chemistry and its Applications, Qatar University, Doha, Qatar, Sept. 1993 – Dec. 1993.

#### **Prestigious mission:**

Leader for a group of Qatari Alumni graduated from UK during the visit of HRH the Prince of Wales, organized by the British Council, **14<sup>th</sup> March 2013, Doha, Qatar.**

#### **Services to the International Community:**

- PhD Referee for PhD thesis, Bharathidasan university, India, Jan. 2016
- Organic Chemistry Book Chapter Referee from Tafila Technical University, Jordan, Dec. 2015
- Promotion Referee for promotion Dossier from Taibah University, KSA, Dec. 2015
- Promotion Referee for promotion Dossier from Mu'tah University, Jordan, Nov. 2015

#### **Services to the Qatari Community:**

- Member, Review Committee for Secondary School Research Experience Program (**SSREP**), QNRF: 5<sup>th</sup> cycle, **May 2015, Doha, Qatar.**
- Member, Review Committee for the Intel Science Competition Arab World (ISC-AW 2015), **24-25<sup>th</sup> March 2015**, Qatar National Convention Center, **Doha, Qatar.**
- Member, Review Committee for Qatari School Students Research, 7<sup>th</sup> Cycle, Supreme Education Council, **23<sup>rd</sup> March 2015, Doha, Qatar.**
- Member, Review Committee for the Intel Science Competition Arab World (ISC-AW 2014), **9-11<sup>th</sup> Nov. 2014**, Qatar National Convention Center, **Doha, Qatar.**
- Member, Review Committee for Secondary School Research Experience Program (**SSREP**), QNRF: 4<sup>th</sup> cycle, **Oct. 2014.**
- Member, Social Responsibility Report 2014, sponsored and produced by Qatar University, Aug. 2014

- Member, Review Committee for the Secondary School Students Competition: "CHEMISTRY in our LIFE", at Alashamal Secondary School, **16<sup>th</sup> March 2014, Doha, Qatar**
- Member, Review Committee for Secondary School Students Research, 6<sup>th</sup> Cycle, Supreme Education Council, **March 2014, Doha, Qatar.**
- Member, Review Committee for Secondary School Research Experience Program (**SSREP**), QNRF: 3<sup>rd</sup> cycle, **June 2013.**
- Member, Review Committee for Secondary School Students Research, 5<sup>th</sup> Cycle, Supreme Education Council, **April 2013, Doha, Qatar.**
- Member, Review Committee for the students Research, the First Scientific Youth Forum, Ministry of Culture, Arts & Heritage, **17-19 March 2013, Doha, Qatar.**
- Member, Review Committee for AlResala Secondary School Students Research, **31<sup>st</sup> Jan. 2013, Doha, Qatar.**
- Member, Review Committee for Secondary School Research Experience Program (**SSREP**), QNRF: 2<sup>nd</sup> cycle, **May 2012.**
- Member, Review Committee for Secondary School Students Research, 4<sup>th</sup> Cycle, Supreme Education Council, **April 2012, Doha, Qatar.**
- Lecture titled "Chemistry in the Modern Era" during the International Year of Chemistry Celebration (IYC 2011) organized by Qatar University and Anti-Doping Lab., to highlight the importance of Chemistry, Qatar University, Doha, 7<sup>th</sup> **Dec. 2011**
- Lecture About "Chemistry in our life" during the International Year of Chemistry Celebration (IYC 2011) organized by the Supreme Education Council (SEC) in Doha, Qatar, to highlight the importance of Chemistry to the secondary schools students, 16<sup>th</sup> **Nov. 2011.**
- Lecture for announcing the "BIG SCIENCE CHALLENGE Competition" organized by the British Council in Doha and Rolls-Royce, 24<sup>th</sup> **Oct. 2011**
- Member, Review Committee for Secondary School Research Experience Program (**SSREP**), QNRF: 1<sup>st</sup> cycle, **May 2011.**
- Workshop about Laboratory Safety Practice, OSHA standards, Al-Iman Secondary School, Doha, Qatar, **May 2010.**
- Member at the Board of Governors of Qatar Academy, Doha, Qatar, Aug. **2005** – present.
- Lectures about OSHA Safety Standards - Foundation Program Students- College of Science- Qatar University - **spring 2002.**
- Training Program for Teachers of High Schools - Ministry of Education – Doha- 2<sup>nd</sup> -14<sup>th</sup> **Dec. 1995.**
- Teaching a course for chemistry teachers about organic reactions, Ministry of Education **1994- 1996.**

- Modern Trends in Teaching Chemistry - Training Course, Chemistry Teachers, Ministry of Education – Doha- 30<sup>th</sup> April – 18<sup>th</sup> **May 1994**.

### Services to Qatar University:

- Research Proposal Review, Center of Advanced Materials (CAM), Qatar University, Qatar, Nov. 2015
- co-chair in the round table session organized by OFID, Title: "Research grant proposal writing: Tip, Tricks and Traps", Qatar University, June 2014
- Safety Officer for the Faculty of Science- Qatar University, 2001-2004
- Academic advisor at faculty of Science, Qatar University, 1998 -2004.
- Academic advisor at the Chemistry Department, Qatar University, 1994 -2004.

### AWARDS:

- Fulbright Scholarship, **Feb. 2010– June 2011**, School of Pharmacy, Moulder Center for Drug Discovery Research (MCDDR), Temple University, Philadelphia, Pennsylvania, **USA**
- Deutscher Akademischer Austausch Dienst (**DAAD**) (German Academic Exchange Service), **July-Aug. 2003**, Institut fuer Technische Chemie, Hannover, **Germany**.

### Research Interests:

- Organic Solar Cells,
- CO<sub>2</sub> Conversion
- Lithium Battery
- Photocatalysis,
- Water Treatment,
- Organic Synthesis,
- Charge-Transfer Compounds,

### Scientific Publications:

**Published 22 ISI Web of Knowledge indexed international journal papers**

**Total number of citation** = 463 (Google scholars),

**H-Index (HIRSCH INDEX)** = 11

**i10-index** (publications cited more than 10 times during last 5 years) = 11 (Google Scholar).

The publications are listed in chronological order beginning with the most recent publication:

1. **2016** Influence of the heteroatom on the optoelectronic properties and transistor performance of soluble thiophene-, selenophene- and tellurophene-vinylene copolymers, Mohammed Al-Hashimi, Yang Han, Jeremy Smith, Hassan. S. Bazzi, Siham Yousuf Alqaradawi, Scott Watkins, Thomas D Anthopoulos, Martin Heeney, Chemical Science, **2016**

2. **2016** Charge-transfer complexes formed in the reaction of 2-amino-4-ethylpyridine with pi-electron acceptors, **Siham Y. AlQaradawi**, Adel Mostafa, A. A. Bengali, JOURNAL OF MOLECULAR STRUCTURE, 1106, 10-18, **2016**,
3. **2015** Dynamic Cross-Linking of Polymeric Binders Based on Host\_Guest Interactions for Silicon Anodes in Lithium Ion Batteries, Tae-woo Kwon, You Kyeong Jeong, Erhan Deniz, **Siham Y. AlQaradawi**, Jang Wook Choi and Ali Coskun, ACS Nano, **2015**  
**[IF=12.8]**
4. **2015** TiO<sub>2</sub> Nanotubes with Ultrathin Walls for Enhanced Water Splitting, Ahmad M Mohamed, Amina S Aljaber, **Siham Y Alqaradawi** and Nageh Allam, Chem. Commun., 51, 12617–12620, **2015**, DOI: 10.1039/C5CC04539H,  
**[IF=6.8]**
5. **2015** Spectroscopic and Thermal Characterization of Charge-Transfer Complexes Formed In the Reaction of 2-Amino-6-Ethylpyridine with  $\pi$ -Electron Acceptors, Adel Mostafa, A. A. Bengali, **Siham Y. AlQaradawi**, international Journal of Modern Engineering Research, 5 (1), 1-14, **2015**
6. **2015** Charge - transfer complexes of 4-methylpiperidine with sigma and pi acceptors, **Siham Y. Al-Qaradawi**, Adel Mostafa and Hassan S. Bazzi, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 135, 498-505, **2015**. *This article has been downloaded or viewed 241 times since publication (4<sup>th</sup> Aug. 2015)*
7. **2014** Self-assembled Zirconia Nanotube Arrays: Fabrication Mechanism, Energy Consideration and Optical Activity, Ahmad W Amer, Seifallah M Mohamed, Ahmad M Hafez, **Siham Y. AlQaradawi**, Amina S Aljaber and Nageh Allam, *RSC Adv.*, **2014**, 4 (68), 36336 - 36343, **DOI: 10.1039/C4RA05115G**, [IF=3.708]
8. **2014** Spectrophotometric and thermal studies on the charge-transfer complexes of 4-(aminomethyl) piperidine as donor with  $\sigma$ - and  $n$ -electron acceptors, Adel Mostafa, Nada El-Ghossein, **Siham Y. Al-Qaradawi**, SPECTROCHIMICA ACTA PART A - MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, 118, 1012-1019, **2014**.  
**DOI: 10.1016/j.saa.2013.09.091**, [IF=1.98]  
*This article has been downloaded or viewed 140 times since publication (measured through 31 March 2014).*
9. **2013** Charge - transfer complexes formed in the reaction of 1,4,7,10-tetraazacyclo-dodecane with  $n$  - electron acceptors, **Siham Y. Al-Qaradawi**, Adel Mostafa and Hassan S. Bazzi, JOURNAL OF MOLECULAR STRUCTURE, 1037 , 209-217, **2013**. **[IF=1.40]**
10. **2012** Synthesis, spectroscopic and thermal studies of charge - transfer molecular complexes formed in the reaction of 1,4-Bis (3-Aminopropyl) piperazine with  $\sigma$ - and  $\pi$  acceptors, **Siham Y. Al-Qaradawi**, Adel Mostafa and Hassan S. Bazzi, JOURNAL OF MOLECULAR STRUCTURE, 1011, 172-180, **2012**. **[IF=1.40]**
11. **2011** Novel charge transfer complexes of the donor 1,4,7,10,13,16-



- hexamethyl-1,4,7,10,13,16-hexaazacyclooctadecane and the acceptors iodine, TCNE, and TCNQ, **Siham Y. Al-Qaradawi**, Hassan S. Bazzi, Adel Mostafa and El-Metwally Nour, JOURNAL OF MOLECULAR STRUCTURE, 998, 126-135, **2011**. [IF=1.40]
12. **2010** Synthesis, characterization and spectroscopic structural studies of charge - transfer complexes of 1,4,8,11-tetraazacyclotetradecane -5,7-dione with iodine, TCNE and DDQ, El-Metwally Nour, **Siham Y. Al-Qaradawi**, Adel Mostafa, Eman Shams, and Hassan S. Bazzi, JOURNAL OF MOLECULAR STRUCTURE, 980, 218-224, **2010**. [IF=1.40]
  13. **2008** Synthesis, spectroscopic and thermal investigation of solid charge-transfer complexes of 1,4,7-trimethyl-1,4,7-triazacyclononane and the acceptors iodine, TCNE, TCNQ and chloranil, **Siham Y. Al-Qaradawi**, Hassan S. Bazzi, Adel Mostafa and El-Metwally Nour, SPECTROCHIMICA ACTA PART A - MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, 71A, 1594-1598, **2008**. [IF=1.98]
  14. **2008** Synthesis, spectroscopic and thermal studies of the reactions of the donors piperazine and N,N '-dimethylpiperazine with sigma- and pi-acceptors, Bazzi, Hassan S; **Siham Y. Al-Qaradawi**, Mostafa, Adel; El-Metwally Nour, JOURNAL OF MOLECULAR STRUCTURE, 879, 60-71, **2008**. [IF=1.40]
  15. **2007** Spectroscopic investigation of the charge-transfer interaction between 1,4,7-trimethyl-1,4,7-triazacyclononane and the acceptors iodine, TCNE, TCNQ and chloranil, **Siham Y. Al-Qaradawi**, and E M Nour, SPECTROCHIMICA ACTA PART A - MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, 68, 908-911, **2007**. [IF=1.98]
  16. **2007** Synthesis and spectroscopic structural investigations of the charge-transfer complexes formed in the reaction of 2,6-diaminopyridine with  $\pi$ -acceptors TCNE, chloranil, and DDQ, Hassan S. Bazzi, Adel Mostafa, **Siham Y. Al-Qaradawi** and E. M. Nour, JOURNAL OF MOLECULAR STRUCTURE, 842, 1-5, **2007**.
  17. **2006** Synthesis and spectroscopic structural studies of the adducts formed in the reaction of aminopyridines with TCNQ, **Siham Y. Al-Qaradawi** and E. M. Nour, JOURNAL OF MOLECULAR STRUCTURE, 794, 251-254, **2006**.
  18. **2005** Spectroscopic investigation of the novel charge-transfer complex [(phen)(TCNE)<sub>12</sub>] formed in the reaction of phenacetin with tetracyanoethylene, **Siham Y. Al-Qaradawi** and E. M. Nour, SPECTROCHIMICA ACTA PART A - MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, 62, 578-581, **2005**. [IF=1.98]
  19. **2004** Synthesis and spectroscopic Studies of the Charge-Transfer Complexes of 2,3-Diaminopyridine and  $\pi$ -Electron Acceptors, **Siham Y. Al-Qaradawi** and E. M. Nour, Spectroscopy Letters, 4, 37, 337-345, **2004**. [IF=0.67]
  20. **2004** Novel Mercaptopurine & Thioguanine Analogues: The Reaction of Dimethyl N-Cyanodithioiminocarbonate with oxo- and Amino- Diazoles, **Siham Y. Al-Qaradawi** and Galal H. Elgemeie, Synthetic Communications, 34, 5, 805-815, **2004**.
  21. **2004** Prevention of GaAs photocorrosion by a commercial epoxy adhesion

- layer, **Siham Y. Al-Qaradawi**, Eman M. Elnemma and Mahmoud M. Khader, *Int. J. Adhesion & Adhesives*, 24, 219-227. **2004**
22. **2003** Activation and Stabilization of n-GaAs for Solar Energy Conversion, **Siham Y. Al-Qaradawi**, Amina S. Aljaber and Mahmoud M. Khader, *Thin Solid Films*, 444, (1-2), 282-289, **2003**
  23. **2003** Novel Cycloalkane Ring-fused Arylazopyrazolo[1,5-a ]-Pyrimidine Derivatives: Synthesis, Properties & Dying Characteristics, **Siham Y. Al-Qaradawi**, *Pigment & Resin Technology*, 32, 4, 248-258, **2003**. DOI: [10.1108/03699420310481596](https://doi.org/10.1108/03699420310481596)
  24. **2002** Photocatalytic Degradation of Methyl Orange as a Model Compound, **Siham Y. Al-Qaradawi**, and S. R. Salman, *J. Photochemistry and Photobiology*, 148, 161-168, **2002**.
  25. **2000** Ruthenium (III) mono (2,2'-bipyridine) complexes containing O,O-donor ligands and their oxidation properties for organic compounds, Ahmed M. El-Hendawy, **Siham Y. Al-Qaradawi** and Homaid A. Al-Madfa. *Transition Metal Chemistry*, 25: 572-578, **2000**. [IF=1.18]
  26. **1995** Factors influencing the reaction-mode selectivity and regiochemistry of intermolecular photocycloaddition reactions of ethenes to polysubstituted benzenes. **Siham Y. Al-Qaradawi**; Gilbert, Andrew; Jones, D. T., *Recl. Trav. Chim. Pays-Bas*. **1995**, 114, 11/12, 485-91.
  27. **1993** Sunlight-initiated cycloaddition reactions of the benzene ring. **Siham Y. Al-Qaradawi**; Blakemore, David; Gilbert, Andrew. *Proc.- Indian Acad. Sci., Chem. Sci.*, **1993**, 105, 6, 555-62
  28. **1993** Study on 3,5-pyrazolidinedione and its derivatives. Part 11. Salem, Mounir; Madkour, Hassan; Al-Nuaimi, Ibrahim; **Siham Y. Al-Qaradawi**, *J. Serb. Chem. Soc.*, **1993**, 58, 2, 89-100.
  29. **1992** Intramolecular photocycloaddition of 4-phenoxybut-1-enes: a convenient access to the 4-oxatricyclo(7.2.0.0<sup>3,7</sup>)undeca-2,10-diene skeleton. **Siham Y. Al-Qaradawi**; Cosstick, Kevin; Gilbert, Andrew., *J. Chem. Soc., Perkin Trans. 1*, **1992**, 9, 1145-8.
  30. **1992** Study on 3,5-pyrazolidinedione and its derivatives. Part 1. Salem, Mounir; Madkour, Hassan; Al-Nuaimi, Ibrahim; **Siham Y. Al-Qaradawi**, *J. Serb. Chem. Soc.*, **1992**, 57, 4, 221-31.

First Author Articles: 17

Co-authored: 9

Corresponding Author: 15

#### **Reviewer for Research Proposals:**

**Nov. 2015:**

Proposal from Center of Advanced Materials (CAM), Qatar University, Qatar

Title: New generation of electrocatalyst and membranes for direct methanol fuel cell applications.

**Aug. 2014:**

Proposal from Sultan Qaboos University, Muscat, Sultanate Oman,  
Title: Metal-Catalyzed C-H activation.

**Funded Grants**

**All the grants are funded from Qatar National Research Fund [QNRF], a member of Qatar Foundation:**

- 1- **NPRP 7 - 485 - 1 - 091**, "Solar Fuels via High-Temperature Photocatalytic Dissociation of Steam and Carbon Dioxide at Elevated Temperatures", **LEAD PI**, 2014-2017, **\$ 896,656.92**
- 2- **NPRP 7 - 301 - 2 - 126**, "High Performance Silicon Negative Electrodes for High Energy Density Lithium Battery Applications", **Co-LEAD PI**, 2014-2017, **\$ 898,883.25**
- 3- **NPRP 6-351-1-072**, "Coupling Nanomaterials and Solar Energy to Convert CO<sub>2</sub> into Useful Fuel", **LEAD PI**, 2013-2016, **\$ 1,014,854.40**
- 4- **NPRP 6-452-1-089**, "Comparative assessment of small molecule donors for organic photovoltaics", **Co-LEAD PI**, 2013-2016, **\$ 988,691.40**
- 5- **NPRP 6-569-1-112**, "Design of Multifunctional Nanostructured Systems for Efficient Solar Energy-Driven Clean Fuel Production", **PI**, 2013-2016, **\$997,165.68**
- 6- **UREP 14-037- 1-004**, "Synthesis and Characterization of Novel Perylene diimide copolymers for organic photovoltaic solar cells", **Primary Faculty member**, Aug. 2013 - Feb. 2015, **\$59800**.

**International Research Collaborations:**

- 1- Northwestern University, Chicago, **USA**
- 2- Imperial College, London, **UK**
- 3- Korea Advance Institute for Science & Technology [KAIST], **Korea**
- 4- American University in Cairo [AUC], **Egypt**

**Teaching Experience:**

I taught Organic Chemistry courses for Chemistry, Biomedical, Biology, Food & Nutrition, Home Economics and Nursing students.

Teaching advanced organic courses and Photochemistry course for Senior Year Chemistry Students.

**Innovation Methods & Technology in Teaching:**

Used PowerPoint presentations, ball & Stick Models, Socratic teacher and Flash cards technique. Proficient with the use of Black Board 9.1.

**Teaching Duties:**

I've been teaching for 34 years at Qatar University. I was involved in teaching, developing (\*), and upgrading curricula (\*\*) for several courses and laboratories, some of which are:

**Theoretical courses:**

	<b>Course number</b>	<b>Course Title</b>
1.	CHEM 096	General Chemistry for Nursing
2.	CHEM 099	General Chemistry for Preparatory
3.	CHEM 105	Organic Chemistry for Nursing
4.	CHEM 201	Organic Chemistry (I)
5.	CHEM 202	General Organic Chemistry
6.	CHEM 203	Organic Chemistry (II)
7.	CHEM 209	Fundamentals in Organic Chemistry
8.	CHEM 211	Organic Chemistry (I)*
9.	CHEM 212	Organic Chemistry (II)
10.	CHEM 214	Organic Chemistry (I)
11.	CHEM 261	General Organic Chemistry
12.	CHEM 301	Advanced Organic Chemistry (I)
13.	CHEM 302	Advanced Organic Chemistry (II)
14.	CHEM 311	Organic Chemistry (III)
15.	CHEM 312	Organic Chemistry (IV)
16.	CHEM 364	Preparation Chemistry
17.	CHEM 407	Photochemistry*
18.	CHEM 461	Special Topics*
19.	CHEM 462	Research Project

**Practical courses:**

	<b>Course number</b>	<b>Course Title</b>
1	CHEM 099	General Chemistry for Preparatory
2	CHEM 103	Experimental General Chemistry
3	CHEM 105	General Chemistry for Nursing
4	CHEM 202	General Organic Chemistry
5	CHEM 203	Organic Chemistry (II)
6	CHEM 211	Organic Chemistry (I)**

	<b>Course number</b>	<b>Course Title</b>
7	CHEM 213	Experimental Organic Chemistry (I)
8	CHEM 217	Experimental Organic Chemistry (II)
9	CHEM 261	General Organic Chemistry
10	CHEM 303	Experimental & Spectroscopic Chemistry
11	CHEM 364	Preparation Chemistry

### **Students Evaluation:**

For Special topics: Ranging from 85-100%

For advanced Organic Chemistry: Ranging from 90 – 95%

For Lower Level Courses: Ranging from 85-95%

### **Curriculum Development:**

Actively involved in designing and development of several B.Sc. organic syllabi and course content.

### **Laboratory Skills:**

- Gas Chromatography (GC)
- Column Chromatography (CC)
- Ultraviolet-Visible Spectroscopy (UV-vis)
- Infrared Spectroscopy (IR)
- Nuclear Magnetic Resonance (NMR)

### **Scientific Conferences and Symposiums:**

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1. The International Workshop on Advance Materials, Ras Alkhaima, UAE, **21-23<sup>rd</sup> Feb. 2016**, (Poster Presentation),
2. QAFCO Texas A&M at Qatar Conference 2016, CO2 management and renewable energy, Hamad Bin Khalifa University [HBKU] Students Centre, Education City, Doha, **Qatar**, 14<sup>th</sup> Jan. **2016**,
3. The Photonics Middle East Conference (PMEC-2015), Hamad Bin Khalifa University [HBKU] Students Centre, Education City, Doha, Qatar, 13-15<sup>th</sup> Dec. **2015**
4. Women In Science (WIS), **Hamad bin Khalifa University** [HBKU] Student Center, Education City, Doha, Qatar, 28-29<sup>th</sup> Oct. **2015**
5. The 250<sup>th</sup> American Chemical Society (ACS) National Meeting and Exposition, "Innovation from Discovery to Application" Boston, MA, **USA**, 16-20<sup>th</sup> Aug. **2015**
6. Qatar University Annual Research Forum 2015, Qatar University, **Doha, Qatar 4<sup>th</sup> May 2015**, (Two posters).

7. QEERI International Computational Workshop on Solar Energy, the Recreation Center, Education City, **Doha, Qatar, 12-14<sup>th</sup> April 2015**
8. QAFCO-Texas A&M at Qatar Conference 2015, "**Sustainable Chemical Processes**", Education City, **Doha, Qatar, 3<sup>rd</sup> March 2015**
9. The Royal Society of Chemistry Second Gulf Symposium, "Design and Applications of Advanced Materials", **10<sup>th</sup> December 2014**, Department of Chemistry & earth Sciences, Qatar University, **Doha, Qatar.**
10. The Annual Research Conference [ARC 2014], organized by QF, Qatar National Convention Center, "Toward world-class research and innovation, **18-19<sup>th</sup> Nov. 2014, Doha, Qatar, THREE** Poster presentations.
11. **3<sup>rd</sup> ANNUAL WORLD REFINING AND PETROCHEMICAL TECHNOLOGY, SUMMIT 2014, 29-30<sup>th</sup> October 2014**, Doha Marriott Hotel, **Doha, Qatar**
12. ADLQ 2nd Junior Symposium, Anti-Doping Lab Qatar, 27<sup>th</sup> October **2014**, Doha, Qatar, Poster presentation [UREP project]
13. Organic Photonics & Electronics, Faraday Discussions 174, organized by Royal Society of Chemistry, **Glasgow, UK, 8-10<sup>th</sup> Sept. 2014**, Poster presentation [UREP project]
14. The International Conference of Science and Technology, Cornell University, **New York, USA, 11-12<sup>th</sup> August, 2014**, "Photoconversion of CO<sub>2</sub> into Fuel", (Invited Speaker)
15. WORLD RENEWABLE ENERGY CONGRESS 13, WREC XIII, University of Kingston, **LONDON, UK, 3-8<sup>th</sup> August, 2014**, [Renewable Energy in the service of Mankind], (Invited Speaker) "*Photocatalytic Conversion of CO<sub>2</sub> into Hydrocarbon Fuels on Decorated-TiO<sub>2</sub> Nanotube Arrays*".
16. Qatar Foundation's Workshop on Computing Infrastructure for Research and Education Network (QFREN), Qatar National Convention Center (QNCC), **1<sup>st</sup> June 2014, Doha, Qatar.**
17. Climate Change Research Impact Workshop, organized by Qatar Energy and Environment Research Institute, Qatar National Convention Centre (QNCC), **28-29<sup>th</sup> May 2014, Doha, Qatar.**
18. The International Symposium on Advances in Chemical Engineering & Sciences, Organized by the Chemical Engineering Dept. & the Gas Processing Center, Qatar University, **5<sup>th</sup> May 2014, Doha, Qatar**
19. The first National Computing Infrastructure for Research (NCIR) User Forum, the Qatar National Convention Center, **April 30, 2014**, hosted by Qatar Foundation Research and Development (QF R&D), Doha, Qatar.
20. The PERF Spring Meeting entitled "Oil Company Environmental Sustainability Research Programs", **14-15<sup>th</sup> April 2014**, the **Qatar Science & Technology Park (QSTP), Doha, Qatar**

21. The Third Texas A&M University at Qatar Research & Industry Partnership Showcase, Qatar National Convention Centre, **Doha, Qatar, 7<sup>th</sup> April 2014**
22. The 3<sup>rd</sup> Kuwait Chemistry Conference, KCC 2014, "Petroleum Industry and Environment", organized by Kuwait Chemical Society (KCS) together with Kuwait University (KU), Kuwait Institute of Scientific Research (KISR) and Public Authority for Applied Education and Training (PAAET), **Kuwait, 9-11<sup>th</sup> March 2014.**
23. The Materials Science and Engineering Symposium, the new Research Complex Auditorium, Qatar University, organized jointly by Center for Advanced Materials at Qatar University and Texas A&M University at Qatar, **Doha, Qatar, 18<sup>th</sup> of February 2014.**
24. QAFCO Texas A&M at Qatar, "Nanotechnology & Energy", Education City, **Doha, Qatar, 9<sup>th</sup> Jan. 2014**
25. "Materials and Chemistry for new Energy Technology" Symposium, organized by the Royal Society of Chemistry, 12<sup>th</sup> Dec. **2013, Qatar University, Doha, Qatar**
26. Aluminum Technology – what's in it for you?, Aluminum Week, Center of Advanced Material [CAM] in Collaboration with Qatalum and Hydro, Qatar University, 11<sup>th</sup> Dec. **2013, Doha, Qatar**
27. The Annual Research Conference [ARC 2013], organized by QF, Qatar National Convention Center, 24-25<sup>th</sup> Nov. **2013, Doha, Qatar**
28. The National Organic Chemistry Symposium, 43<sup>rd</sup> NOS, organized by the American Chemical Society (ACS), Division of Organic Chemistry, 23-27<sup>th</sup> June **2013, University of Washington, Seattle, USA**
29. "The 6th Exploring ICT in Education", the College of North Atlantic, **Doha, Qatar, 2-4<sup>th</sup> March 2013.**
30. The 10th Natural Gas Conversion Symposium (NGCS 10), "the clean Energy of the Future", **Doha, Qatar, March 2-7<sup>th</sup> 2013** at Ritz-Carlton Hotel.
31. The Fourth Annual Materials Science and Engineering Symposium: "Advanced Materials for Sustainable Systems", organized by Qatar University (Center for Advanced Materials) and Texas A&M University at Qatar, **Doha, Qatar, 7<sup>th</sup> February 2013.**
32. The World GTL Congress, Organized by Qatar petroleum, St Regis Hotel, **Doha, Qatar, 13-15<sup>th</sup> Jan. 2013.**
33. The Annual Research Conference [ARC 2012], organized by QF, Qatar National Convention Center, 21-23<sup>rd</sup> Oct. **2012, Doha, Qatar.**
34. The 244<sup>th</sup> American Chemical Society (ACS) National Meeting and Exposition, "Materials for Health & Medicine" Philadelphia, PA, **USA, 19-23<sup>rd</sup> Aug. 2012 "Poster Presentation".**
35. The Third Annual Materials Science and Engineering Symposium, organized by Qatar University and Texas A&M University at Qatar, **Doha, Qatar, 28<sup>th</sup> February 2012,** Hamad bin Khalifa University (Education City).

36. The 14th International Union of Pure and Applied Chemistry Conference on Polymers and Organic Chemistry (POC 2012), organized by TAMU at Qatar, **Doha, Qatar**, 6-9<sup>th</sup> Jan. **2012**.
37. The first Gulf Chemistry Forum, Towards Green Chemistry, organized by Sultan Qaboos University, **Muscat, Oman**, 27-28<sup>th</sup> Dec. **2011**,
38. The 20<sup>th</sup> World Petroleum Congress, organized by Qatar Petroleum, Qatar National Convention Center, **Doha, Qatar**, 4-8<sup>th</sup> Dec. **2011**,
39. Aluminum symposium organized by Material Technology Unit at QU, Qatalum, and HYDRO, **Doha, Qatar**, 24<sup>th</sup> Nov. **2011**.
40. Energy security Symposium, organized by the British Council, **Doha, Qatar**, 13-15<sup>th</sup> Nov. **2011**.
41. The 18<sup>th</sup> Conference of the Islamic World Academy of Sciences (IAS), the Islamic world & the west: rebuilding bridges through Science & technology, **Doha, Qatar**, 22-24<sup>th</sup> Oct. **2011**.
42. The 2<sup>nd</sup> International Conference & Exhibition on Laboratory Technology (Lab-Tech 2011), organized by the Saudi Arabian International Chemical Sciences Chapter of American Chemical Society (SAICSC-ACS), **Doha, Qatar**, 8-12<sup>th</sup> Oct. **2011**.
43. The 42<sup>nd</sup> National Organic Chemistry Symposium, organized by the American Chemical Society, Division of Organic Chemistry, Princeton University, Princeton, NJ, **USA**, 5-9<sup>th</sup> June **2011**.
44. The 241<sup>st</sup> national American Chemical Society (ACS) Meeting and Exposition, Anaheim, CA, **USA**, 27-31<sup>st</sup> March **2011**.
45. First United Arab Emirates Conference on Pure and Applied Chemistry (ECPAC11), American University of Sharjah, **UAE**, 1-3<sup>rd</sup> March **2011**
46. The World Renewable Energy Congress XI & Exhibition, Abu Dhabi, **UAE**, 25-30<sup>th</sup> Sept. **2010**.
47. QAFCO-TAMUQ Chemistry Conference 2010, Texas A & M in Qatar, Education City, **Doha, Qatar**, 21<sup>st</sup> Jan. **2010**.
48. QAFCO-TAMUQ Chemistry Conference 2009, Texas A & M in Qatar, Education City, **Doha, Qatar**, 8<sup>th</sup> Jan. **2009**.
49. Symposium on Chemical Catalysis and its Applications, Department of Chemistry and Earth Sciences, College of Arts & Sciences, Qatar University, **Doha, Qatar** 9<sup>th</sup> April **2008**.
50. Environmental Degradation and Conservation: Challenges and Prospects, Education City Universities at VCUQ Atrium; **Doha, Qatar**, 12<sup>th</sup> November **2007**
51. 1<sup>st</sup> Symposium on Polymer Sciences, Chemistry & Earth Sciences Dept., College of Arts & Sciences, Qatar University, **Doha, Qatar**, 14<sup>th</sup> April **2007**.



52. Qatar University/WCMC-Q Second Qatar Symposium on Science Teaching and Learning, **Doha, Qatar**, 7<sup>th</sup> March **2007**.
53. 1<sup>st</sup> Conference in Chemistry, Texas A&M in Qatar, Education City, **Doha, Qatar**, Jan. 10, **2007**
54. International Conference on materials research and education, future trends and opportunities, Education City, **Doha, Qatar**, 4-6<sup>th</sup> April **2005**.
55. The 8<sup>th</sup> International Conference on Solar Energy and Applied Photochemistry [SOLAR '05], **Luxor, Egypt**, 20-25<sup>th</sup> Feb., **2005**.
56. The 8<sup>th</sup> Arab International Solar Energy Conference & The Regional World Renewable Energy Congress, **Kingdom of Bahrain**, 8-10<sup>th</sup> March **2004**.
57. 2<sup>nd</sup> Conference in Chemistry and its applications, Chemistry Dept., Faculty of Sciences, Qatar University, **Doha, Qatar**, 6-9<sup>th</sup> December **2003**.
58. **QUEST** Conference, Supreme Council, **Doha, QATAR**. 20-25<sup>th</sup> January **2002**.
59. 1<sup>st</sup> International Conference on 'Semiconductor Photochemistry', University of Strathclyde, **Glasgow, U.K.**, 23-25<sup>th</sup> July **2001**.
60. 15<sup>th</sup> International Conference on Chemical Education, (Chemistry and Global Environmental Change), **Cairo, Egypt**, 9-14<sup>th</sup> August **1998**.
61. 1<sup>st</sup> Conference in Chemistry and its applications, Qatar University, faculty of Science, Chemistry Dept., **Doha, Qatar**, 7-9<sup>th</sup> December **1993**.
62. Second International Conference, (Solar 93), Solar Energy Storage and Applied Photochemistry, **Cairo, Egypt**, 6-11<sup>th</sup> January **1993**.

#### **General Conferences and Meetings:**

- The World Innovation Summit for Education (WISE 2015), the Seventh annual Summit, Qatar National Convention Center, **4-5<sup>th</sup> Nov. 2015, Doha, Qatar**
- Teaching & Learning Forum 2015, organized by Education Development Institute at Qatar Foundation, Qatar National Convention Center, **9<sup>th</sup> May 2015, Doha, Qatar**
- The World Innovation Summit for Education (WISE 2014), the Sixth annual Summit, Qatar National Convention Center, **4-6<sup>th</sup> Nov. 2014, Doha, Qatar**.
- University of Calgary at Qatar Teaching & Learning Conference, "Engaging Ideas & Innovative Practices", **1<sup>st</sup> May 2014, Doha, Qatar**.
- The 7<sup>th</sup> GCC Quality Conference, "The Quality and Environmental Challenges, **30<sup>th</sup> April 2014, SHARQ VILLAGE & SPA HOTEL – DOHA, QATAR**
- The 4<sup>th</sup> International Arab Conference on Quality Assurance in Higher Education, IACQA 2014, organized by Association of Arab Universities, **1-3<sup>rd</sup> April 2014, AlZarqa University, Jordan**
- "Women in Science" event organised by the British Council, Qatar University, 27<sup>th</sup> November **2013, Doha, Qatar**

- The World Innovation Summit for Education (WISE 2013), the fifth annual Summit, Qatar National Convention Center, **29-31<sup>st</sup> Oct. 2013, Doha, Qatar.**
- Technology in Higher Education [THE] Conference 2013, "Today, Tomorrow and Beyond: Innovation in Teaching, Technology and Learning", organized by TAMU at Qatar, Qatar National Convention Center, **16-17<sup>th</sup> April 2013, Doha, Qatar.**
- The Third Qatar International Businesswomen Forum, 15-16<sup>th</sup> Oct. **2012**, in St. Regis Hotel, **Doha, Qatar.**
- The 2<sup>nd</sup> International Arab Conference on Quality Assurance in Higher Education, IACQA 2012, **4-5<sup>th</sup> April 2012**, Gulf University, **Kingdom of Bahrain.** Chairing a session.
- Technology in Higher Education (THE) Conference 2012, Mobile Learning: Challenges and Opportunities, organized by TAMU at Qatar, Qatar National Convention Center, 27<sup>th</sup> Feb. **2012, Doha, Qatar,**
- Women promoting Qatar's Future: Women and Qatar's National Development Strategy (2011-2016), organized by Qatar University and the American Bar Association 13-14<sup>th</sup> Dec. **2011, Doha, Qatar.**
- Qatar Foundation 2<sup>nd</sup> Research Forum, organized by QF, Qatar National Convention Center, 20-22<sup>nd</sup> Nov. **2011, Doha, Qatar.**
- The third World Innovation Summit for Education, **WISE 2011** conference, Qatar Foundation, 1-3<sup>rd</sup> November **2011, Doha, Qatar.**
- The first International Arab Conference on Quality Assurance in Higher Education, IACQA 2011, 10-12<sup>th</sup> May **2011**, AlZarqa University, **Jordan. (keynote speaker).**
- The first World Innovation Summit for Education, **WISE 2009** conference, Qatar Foundation, 16 – 18<sup>th</sup> November **2009, Doha, Qatar.**
- Qatar Foundation 1<sup>st</sup> Research Forum, organized by QF, 3<sup>rd</sup> March **2009, Doha, Qatar.**
- Symposium on Teaching, Learning and Curriculum Development, Weill Cornell Medical College in Qatar, 11<sup>th</sup> Feb. **2006, Doha, Qatar.**
- Middle East Studies Association (MESA) conference, 18 – 21<sup>st</sup> November **2006-** Boston, MA, **USA.**
- The first conference for the Arab Expatriate Scientists, 24-26<sup>th</sup> April **2006, Doha, Qatar.**
- Arab Women, Past and Present: Participation and Democratization Conference, *Organized by:* Georgetown University – School of Foreign Service (SFS-Q), 3-5<sup>th</sup> March, **2006, Doha, Qatar.**
- 7<sup>th</sup> meeting for GCCs College of Humanities Deans, 11-12<sup>th</sup> Dec. **2005, Doha, Qatar.**
- Chairing Qatar University delegate in "Women as Global Leaders Conference", educating the next generation: 14-16<sup>th</sup> March **2005**, Zayed University, Dubai, **UAE.**

### **SUPERVISION OF under-GRADUATE RESEARCH PROJECT:**

- Feb. 2014 – June 2014 I was responsible for the day-to-day supervision of the research Project course. I helped three chemistry major students with the setting-up of the experimental procedures, writing a mini-thesis, producing a poster & delivering an oral presentation. Title of the graduation project: " Synthesis and Characterization of Novel Perylene diimide copolymers for organic photovoltaic solar cells "
- October 2001- June 2002 I was responsible for the day-to-day supervision of the joint Project with the College of Engineering. I helped a Chemical engineering student with the setting-up of the experimental procedures. Title of the graduation project: "Designing & building a reactor for treatment of wastewater"

### **Professional Activities:**

#### **A)) Membership & Affiliations:**

- 1- Member, THE AMERICAN CHEMICAL SOCIETY (**ACS**), Washington, USA, since **1996**
- 2- Fellow, THE ROYAL SOCIETY OF CHEMISTRY (**RSC**), Cambridge, U.K, since **1992**
- 3- Member, THE CANADIAN SOCIETY FOR CHEMISTRY (**CSC**), CANADA, since **2011**
- 4- Member, Materials Research Society (MRS), USA, since **2014**
- 5- Member, THE EUROPEAN PHOTOCHEMISTRY ASSOCIATION (**EPA**), Mulheim, Germany.
- 6- Member, THE WORLD RENEWABLE ENERGY NETWORK (**WREN**), U.K.
- 7- Member, THE AMERICAN ASSOCIATION for the ADVANCEMENT of SCIENCE (**AAAS**), USA
- 8- Member, THE Qatar UK Alumni network
- 9- Fulbright Alumni, USA Fulbright Commission.
- 10- University of Reading Alumni Association.
- 11- Member, the Saudi Arabian International Chemical Sciences, Chapter of The American Chemical Society, SAICSC-ACS.
- 12- Member, Arab Science and Technology Foundation, ASTF

#### **B)) Journal Reviewer:**

##### **Served as reviewer for the following international refereed journals**

- 1- Spectroscopy Letters (Publisher; Taylor & Francis).
- 2- Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (Publisher, Elsevier).
- 3- Chemical Physics (Publisher, Elsevier).

- 4- Journal of Molecular Structure (Publisher, Elsevier).
- 5- Journal of Molecular Liquids (Publisher, Elsevier).
- 6- Journal of Spectroscopy (Hindawi Publishing Corporation)
- 7- Arabian Journal of Chemistry (Publisher, Elsevier).

### **C)) Research papers Reviewer:**

- The 6<sup>th</sup> International Arab Conference on Quality Assurance in Higher Education, **IACQA 2016**, 9-11<sup>th</sup> Feb. 2016, Sudan
- The 5<sup>th</sup> International Arab Conference on Quality Assurance in Higher Education, **IACQA 2015**, 3-5<sup>th</sup> March 2015, Sharjah University, UAE
- The 4<sup>th</sup> International Arab Conference on Quality Assurance in Higher Education, **IACQA 2014**, 1-3<sup>rd</sup> April 2014, AlZarqa University, Jordan
- The 3<sup>rd</sup> International Arab Conference on Quality Assurance in Higher Education, **IACQA 2013**, 2-4<sup>th</sup> April 2013, Zaitona University, Jordan
- The International Conference of Higher Education in the Arab World: Future Horizons, Islamic University in Ghaza, 15-18<sup>th</sup> Jan. 2013.
- The 2<sup>nd</sup> International Arab Conference on Quality Assurance in Higher Education, **IACQA 2012**, 4-5<sup>th</sup> April 2012, Gulf University, Bahrain.

### **D)) Research Grants Reviewer:**

- Research Proposal from Center of Advanced Materials (CAM), Qatar University, Qatar
- Research Proposal (IG/SCI/15/01), Sultan Qaboos University, Sultanate Oman, **Aug. 2014**

### **Grants and Research Visits:**

- 1) Visit to California Institute of Technology [CALTECH], Pasadena, **CA, USA, JUNE 2013**, according to an invitation by Dr. Sossina Haile, Associate Prof. at Dept. Of Material Sciences, to start scientific collaboration with Qatar University "Summer Research Grant From Qatar University".
- 2) Visit to University of Southampton, Southampton, **UK, Feb. 2007**, according to an invitation by Professor Jeremy Kilburn, Head of School of Chemistry to stimulate the collaboration with Qatar University.
- 3) Visit to Georgetown University, Washington DC, **USA, Nov. 2006**, according to an invitation by the Dean of College of Arts & Sciences to start an academic collaboration.
- 4) Grant from Deutscher Akademischer Austausch Dienst (**DAAD**) (German Academic Exchange Service) for 2 months during summer **2003** to conduct research at Institut fuer Technische Chemie, Hannover, **Germany**.

- 5) Summer Research Grant From Qatar University for 2 months to conduct research at Institut fuer Technische Chemie, Universitaet Hannover, Hannover, **Germany**, summer **2003**.
- 6) Visit during summer **2002**, to conduct research at Institute die Pharmazie, University of Hamburg, Hamburg, **Germany**.
- 7) Summer Research Grant From Qatar University for 3 months during summer **2000**, to conduct research at Dept. of Pure & Applied Chemistry, University of Strathclyde, Glasgow, **Scotland, UK**.

#### **Languages:**

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Arabic: mother tongue

English: very Good

German: fair

#### **Special Technical Skills:**

- Chemistry Software: Chemdraw, & Isis.
- Sigma plot
- Use of Sci Finder for literature search and research.

#### **Professional Certification:**

**July 2001:** Health & Safety Certificate, OSHA, USA: Successfully completed the Safety Training certification requirements by the OSHA Safety, AUC, EGYPT.

#### **Professional Development:**

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##### **Short and extensive courses:**

- Professional Grant Writing Workshop, Organized by Grant Training Center, Temple University, PA, **USA, 9-11<sup>th</sup> Nov. 2010**.
- Essentials of Medicinal Chemistry and Pharmacology, organized by the American Chemical Society, Philadelphia, PA, **USA, 23-24<sup>th</sup> June 2010**.
- Hazardous Waste Management, **Doha, Qatar, June 2002**.
- Safety at Chemical Laboratories, OSHA standards, American University at Cairo (AUC), **Cairo, Egypt, July-Aug. 2001**.

#### **Workshops:**

1. Wastewater treatment workshop by Geneva services, Doha intercontinental Hotel, 4<sup>th</sup> **May 2015**, Doha, Qatar.
2. Safety Awareness Week organized by the Department of Chemistry & Earth Sciences, Qatar University, **Doha, Qatar, 23-25<sup>th</sup> Feb. 2014**.

3. "Building Confident Scientists and Engineers workshop" organised by the British Council, Qatar University, **Doha, Qatar, 27<sup>th</sup> November 2013.**
4. Quizlet: A fun way to engage students outside the classroom using their Mobile devices", OFID, Qatar University, Doha, Qatar, **12<sup>th</sup> June 2013**
5. Improving students interaction in class using Clickers Technology through Mobile/Tablet devices", OFID, Qatar University, Doha, Qatar, **12<sup>th</sup> June 2013**
6. Accelerating Your Chemistry Research with Reaxys and Hazmat Navigator: From Optimal Reaction Pathways, Effective Synthesis to Chemical Safety, Elsevier, Anaheim, CA, **USA, 28<sup>th</sup> March 2011.**
7. Connect Chemistry featuring Cambridge Soft ChemDraw: The Next Generation of Course Management, Online Learning and Electronic Homework, McGraw-Hill Higher Education, Anaheim, CA, **USA, 29<sup>th</sup> March 2011.**
8. Collaborate through Google Documents, Temple University technology center, Philadelphia, PA, **USA, 13<sup>th</sup> October 2010.**
9. Beyond Multiple Guess Exams: Making Multiple Choice exams fair, Meaningful, and valid, Temple University Technology Center, Philadelphia, PA, **USA, 28<sup>th</sup> September 2010.**
10. Understanding and Avoiding Plagiarism, Temple University writing center, Philadelphia, PA, **USA, 17<sup>th</sup> February 2010.**
11. A workshop for council of International Schools (CIS) School Directors & their Board Chairpersons, Rydges Plaza Hotel, Doha, **Qatar, 15-17<sup>th</sup> January, 2008**
12. Balanced Scorecard Workshop, QU, Doha, **Qatar, 13-14<sup>th</sup> November, 2007**
13. Strategic Foresight Workshop, QU, Doha, **Qatar, 16-17<sup>th</sup> July 2007.**
14. Media workshop, QU, Doha, **Qatar, 1-3<sup>RD</sup> May 2007.**
15. Using Blackboard: Facilitating Online Discussions, Southampton University, **UK, 13<sup>th</sup> Feb. 2007:**
16. Learning and Teaching: Running Really Useful Small-Group Sessions, Southampton University, **UK, 15<sup>th</sup> Feb. 2007:**
17. Communicating Research: Creating Effective Conference Posters with Power Point, Southampton University, **UK, 19<sup>th</sup> Feb. 2007:**
18. PowerPoint: Beyond the Basics, Southampton University, **UK, 21<sup>st</sup> Feb. 2007**
19. Learning Resources: Creating and Using Digital Images, Southampton University, **UK, 23<sup>rd</sup> Feb. 2007.**
20. Learning and Teaching: Developing Teaching Skills, Southampton University, **UK, 27<sup>th</sup> Feb. 2007.**
21. Project Planning - Strategic Planning, **Cairo, Egypt, 29<sup>th</sup> July 29 – 3<sup>rd</sup> August 2006** organized by SETTEC.

22. Introduction to project management workshop, Qatar National Project Management, planning council, **Doha, Qatar**, 21<sup>st</sup> to 25<sup>th</sup> May **2006**
23. Participation in a Practical Demonstration on Using Interactive Board in Teaching organized by Office of Faculty and Instructional Development (OFID), QU, **Doha, Qatar**, 1<sup>st</sup> May **2006**.
24. Leadership training by Harvard team, QU, **Doha, Qatar**, **24-25<sup>th</sup> May 2005**

## References:

**1)) Prof. Magid Abou-Gharbia**, Ph.D., FRSC, Associate Dean for Research, Prof. of Medicinal Chemistry, Director, Moulder Center For Drug Discovery Research, School of Pharmacy, Temple University, 3307 North Broad Street, Philadelphia, PA 19140  
Phone: (215)707-4949, Fax : (215)707-4701  
E-mail: [aboumag@temple.edu](mailto:aboumag@temple.edu)

**2)) Prof. Dr. Detlef Bahnemann**, "Photocatalysis and Nanotechnology" (Head), Institut fuer Technische Chemie, Universitaet Hannover, Callinstrasse 3, D-30167 Hannover, **GERMANY**, Tel.: +49-511-762-5560, Fax: +49-511-762-2774, e-mail: [bahnemann@iftc.uni-hannover.de](mailto:bahnemann@iftc.uni-hannover.de)

**3)) Prof. Soosina Haile**, California Institute of Technology, **CALTECH**, Engineering and Applied Sciences, Materials Science, CA, USA, Tel. +16263952958 – Cell phone: 6263727311, Fax. 6263958868, E-mail: [smhaile@caltech.edu](mailto:smhaile@caltech.edu)

**4)) Prof. Martin Heeney**, Prof. in Materials Chemistry, Department of chemistry, Imperial College, Exhibition Road, South Kensington, London SW7 2AZ, UK, cell: +4407979 557980, e-mail: [m.heeney@imperial.ac.uk](mailto:m.heeney@imperial.ac.uk)

**5)) Prof. M. MAAZA**, UNESCO UNISA AFRICA Chair in Nanosciences/Nanotechnology, Africa-International Desk, iThemba LABS-NRF, Chairman NANOAFNET, Nanosciences Laboratories, Materials Research Department, iThemba LABS-National Research Foundation of South Africa, Old Faure Road, POBox 722, Somerset West 7129, Western Cape Province, South Africa, Tel: +27 (0) 21 843, 149/45/46, Email: [Maaza@tlabs.ac.za](mailto:Maaza@tlabs.ac.za)

**6)) Prof. Dr. Detlef Geffken**, University of Hamburg, Institute die Pharmazie, Hamburg, **Germany**, e-mail: [geffken@chemie.uni-hamburg.de](mailto:geffken@chemie.uni-hamburg.de), Institut für Pharmazie, Universität Hamburg, Beethovenstraze 45, 20146 Hamburg, Germany, Tel.: +49-40-42838-3491, Fax: +49-40-42838-6573

**7)) Dr. Jang Wook Choi**, Associate Professor, Graduate School of EEWS (Energy, Environment, Water, Sustainability), Korea Advanced Institute of Science and Technology (KAIST), 291 Daehak-ro, Yousung-gu, Daejeon, Republic of Korea, 305-701  
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