

Curriculum Vitae

SIHAM YOUSUF ALQARADAWI, Ph.D., FRSC

أ.د. سهام يوسف القرضاوي

Professor of Organic Chemistry

Department of Chemistry & Earth Sciences - College of Arts & Sciences
Qatar University, P. O. Box. 2713 – Doha – Qatar

QU Rank: 339 QS Ranking 2016

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

330 out of 418 in a national Research productivity ranking

<http://www.webometrics.info/en/node/77>



Member, QU Faculty Senate

H -index: 20 (Aug. 2020)

Research Gate Score: 33.12

ORCID: 0000 - 0003 - 0885 - 8194

Researcher ID: J - 1256 - 2014

Scopus Author ID: 7801622481

Loop profile: 153461

siham@qu.edu.qa

BIOGRAPHY

I have been teaching for the past thirty-seven 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 20 with more than 1270 total citations. During the last 3 years I succeeded to publish two articles in a journal in Nature group (Scientific Reports). 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 65 peer-reviewed publications in international journals and over 65 research abstracts and posters in different conferences. 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 had several fellowships at the University of Strathclyde, Glasgow, UK (summer 2000), University of Hamburg, Germany (Summer 2002), University of Hannover, Germany (Summer 2003), California Institute of Technology, CALTECH, CA, USA (Summer 2013). I served as a Dean of the College of Arts & Sciences for five years. This deanship produced the accreditation of the chemistry program by the Canadian Society of Chemistry in 2009 and accreditation of the biomedical program by NAACLS in 2008 in addition to the establishment of the College of Pharmacy.

RESEARCH HIGHLIGHTS-cum-STATISTICS

| Status in Research: | |
|--|---------------|
| ▪ H- Index: | 20 |
| ▪ i-10 Factor: | 31 |
| ▪ No. of SCI Publications (Published) | 65 |
| ▪ Highest Impact Factor: | 13.709 |
| ▪ International/National Conference Abstract | 50+ |
| ▪ Total Citations: | 1200+ |

Academic Accomplishments:

1)) Teaching:

A graduate faculty member since spring 2016

"Outstanding" evaluation by students, higher than 85%

2)) Research:

Authored 65 peer-reviewed papers in international journals.

Secured funding for 6 national research projects.

Education:

Ph.D. July 1992: Doctor of Philosophy (Ph.D.), (Organic Photochemistry), Entitled "Factors Influencing the Photocycloaddition of Ethenes to Disubstituted Benzenoid Compounds", Chemistry Department, Faculty of Science, University of Reading, Reading, **United Kingdom**.
Supervisor: Prof. Andrew Gilbert.

M.Sc. Dec. 1987: Master of Science, (Organic Synthesis), Entitled "Study on Pyrazolidinedione and its Derivatives", Chemistry Department, Faculty of Science, Ain Shams University, Cairo, **Egypt**.
Supervisor: Prof. A. A. Sammour & Ibrahim S. Al-Nuaimi

B.Sc. June 1981: Bachelor of Science, - Excellent grade – (Major Chemistry), Chemistry Department, Faculty of Science, Qatar University, Doha, **Qatar**.

Administrative & Leadership Appointments:

- **Dean**, College of Arts & Sciences, Qatar University Sept. 2005 – Jan. 2010
- **Associate Dean** for Students Affairs, College of Arts & Sciences, Qatar University Sept. 2004 – Aug. 2005
- **Head** of Chemistry Dept., College of Science, Qatar University Feb. 2004 – Aug. 2004

Academic Appointments:

- **Sept. 2012 – Present**
Professor, Dept. of Chemistry & Earth Sciences, College of Arts & Sciences, Qatar University, Qatar [(Canadian Chemical Society Accredited Program (2009-2019))]
- **June 2016 – Present**
Graduate Faculty, Material Sciences and Technology Program, Qatar University
- **Jan. 2011 – June 2011**
Visiting Fulbright Scholar, School of Pharmacy, Moulder Center for Drug Discovery Research (MCDDR), Temple University, (working in the Prof. Magid Abou-Gharbia's research team), Philadelphia, Pennsylvania, **USA**
- **Feb. 2010 – Dec. 2010:**
Visiting Research Scholar, School of Pharmacy, Moulder Center for Drug Discovery Research (MCDDR), Temple University (working in the Prof. Magid Abou-Gharbia's research team), Philadelphia, Pennsylvania, **USA**
- **October 2004 – Aug. 2012**
Associate Professor, Dept. of Chemistry & Earth Sciences, College of Arts & Sciences, Qatar University, Qatar
- **July 1992- Sept. 2004**
Assistant Professor, Dept. of Chemistry, Faculty of Science, Qatar University, Qatar
- **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:

Over the year of my employment at Qatar University since 1981, I have actively involved in several committees at the international level, the State of Qatar level, University, College and Department level.

Below is the list of these committees:

1] International level:

- Member, the GCC Committee, the World Renewable Energy Congress WREC –XVII, **3-8th December 2016**, Kingdom of Bahrain
- Member, the international steering committee for the World Renewable Energy Congress XIII and Exhibition 2014, Kingston University, 3-8th **Aug. 2014**, UK

- Member, the Scientific Committee for the International Arab Conference on Quality Assurance in Higher Education, IACQA, Association of Arab Universities, **2011-2016**.
- Member, the Organizing Committee for the International Arab Conference on Quality Assurance in Higher Education, IACQA, Association of Arab Universities, **2011-2016**.
- Member, the International Steering Committee for World Renewable Energy Congress WERC 2011, **May 2011**, Linköping, Sweden.

2] National level:

- Member, The organizing committee, ACS MENA meeting, 10-12th March **2020**, Ritz Carlton, Doha, Qatar (postponed due to COVID-19 Pandemic)
- Member, Qatar delegate in the 40th session of the UNESCO General Conference of UNESCO, Physical Sciences team, 12-27th Nov. **2019, Paris, France**
- Member, Review Committee for the National Scientific Research Competition (NSRC 2020), organized by QNRF, **5-6th April 2020, QNCC, Doha, Qatar**
- Member, Review Committee for the National Scientific Research Competition (NSRC 2019), organized by QNRF, **11th March 2019, QNCC, 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:

- 1) **Member, Faculty Senate, March 2018-Present**
- 2) **Chair**, Promotion Committee for Research Centers, Vice president for Research & Graduate Studies, Qatar University, March 2016 - **Present**
- 3) **Chair**, Ranking Evaluation Committee for research faculty, Jan. 2019- June 2019
- 4) Member, Recruitment Committee for Research Centers, Vice president for Research & Graduate Studies, Qatar University, Oct. 2018 - **Present**
- 5) Member, Qatar University Student Appeal Committee, formed by QU president, Sept. 2016 – **Present**,
- 6) Member, QU Strategic Research Plan 2017-2020, **March 2016-June 2016**
- 7) Member, Promotion Committee, Center of Advanced Materials (CAM), QU, **Nov. 2015**
- 8) Member of the working group, QU Strategic Planning Committee, **Feb. 2009-Jan. 2010**,
- 9) Member, Academic Information Technology Advisory Committee, **March 2009-Jan. 2010**

- 10) Member, QU Dean's Council, **Sept. 2005 – Jan. 2010**
- 11) Member, QU Students Affairs committee, **Sept. 2004 – Aug. 2005**
- 12) Member in the QU IT Committee, **Nov. 2005 - Oct. 2006**
- 13) Member in the Committee for Establishing "Academic Performance Appraisal System" **Oct. 2003-Sept. 2004**

QU Ad-hoc Committee:

- Member, Assessment Committee for Research Centers, Vice president for Research & Graduate Studies, Qatar University, **Nov. 2018 – June 2020**
- Member, Qatar University Faculty Awards committee for Merit Award, VPCAO, **April 2020**
- Member, Qatar University Faculty Awards committee for Merit Award, VPCAO, **May 2019**
- Member, Qatar University Faculty Awards committee for Merit Award, VPCAO, **May 2018**
- Member, Qatar University Faculty Awards committee for Merit Award, VPCAO, **May 2017**
- Member, Judging Committee for Research Poster Award 2017, QU Research Forum, 24th April 2017

4] College Level:

- Member, Research Outreach and Enabling Committee, Sept. 2019-Present
- Member, Curriculum Committee, Oct. 2016 – Aug. 2019
- 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

CAS Adhoc-committees:

- Member, Committee for improving College of Arts and Sciences, Oct. 2020-Present
- Member, CAS Faculty Appeal Committee for Faculty Appraisal Review and Development system, **March 2019**

- Member, CAS Faculty Appeal Committee for Faculty Appraisal Review and Development system, **April 2018**

5] Chemistry Dept. Level:

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

A)) Permanent Committees:

1. Member, Curriculum Committee, Sept. 2020 - Present
2. Member, Research Committee, Sept. 2020 – Present
3. Chair, Curriculum Committee, Oct. 2012 – Aug. 2020
4. Member, Dept. Council, Sept. 2016 – Present,
5. Member, Recruitment Committee, Nov. 2015- present
6. Member, Research Committee, Sept. 2014 – Sept. 2016.
7. Member, Program Learning outcomes Committee, Sept. 2015- Sept. 2016
8. Member, scrapping Committee, Nov. 2015- June 2016
9. Member, Program learning outcomes Committee, Feb. 2013- Aug. 2014.
10. Chair, Research & Professional development committee, Oct. 2012- Sept. 2013.
11. Member, seminars & workshops committee, Oct. 2012- Sept. 2013.
12. Chair, seminars & workshops committee, Oct. 2011-Sept. 2012.
13. Member, Textbook committee, Sept. 2011-Sept. 2012.
14. Chair, Students Affairs Committee, Chemistry Dept., Faculty of Science, 1997-2004
15. Member, Scientific Secretary Committee, 2nd International Conference on Chemistry and its Applications, Qatar University, Doha, Qatar, Sept. 2002 – Dec. 2003.
16. Member, Reception Committee, 2nd International Conference on Chemistry and its Applications, Qatar University, Doha, Qatar, Sept. 2002 – Dec. 2003.
17. Member, Scientific secretary committee, 1st International Conference on Chemistry and its Applications, Qatar University, Doha, Qatar, Sept. 1993 – Dec. 1993.
18. Member, Reception committee, 1st International Conference on Chemistry and its Applications, Qatar University, Doha, Qatar, Sept. 1993 – Dec. 1993.

B)) Dept. Adhoc-committees:

- Member, International Year of Periodic Table (IYPT 2019) Symposium, May 2019-Sept. 2019
- Member, Accreditation Committee, Dec. 2018- present
- Member, Scientific Events evaluation committee, April 2017- present
- Member, Faculty Performance Review and Development System, Nov. 2015- present
- Internal Examiner, for CHEM 462, Nov. 2019
- Internal Examiner, for CHEM 462, May 2019
- Internal Examiner, for CHEM 462, May 2017
- Internal Examiner, for CHEM 462, Jan. 2018
- Internal Examiner, for CHEM 462, June 2018
- Member, Dept. Promotion Committee, March 2017-April 2017
- Member, Dept. Promotion Committee, Oct. 2017
- Member, Multidisciplinary courses, Oct. 2017
- Member, Scrapping committee, Nov. 2015- June 2016
- Member, Teaching load new policy, Oct. 2014

Accreditation of the Chemistry BSc Degree:

I was involved in the first accreditation on the capacity of being the dean of the College of Arts & Sciences; our application for the accreditation of the chemistry program by the Canadian Society for Chemistry (CSC) approved in 2009. Moreover, I participated in achieving a major milestone of having the department re-accredited by CSC in 2015 as I was involved in the re-accreditation as a member of several committees. In addition I am a member in the accreditation committee for the third cycle which will start in 2020.

Prestigious mission:

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

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:

- CO₂ Conversion
- Methane Reforming
- Lithium ion Batteries
- Photocatalysis,
- Waste Water Treatment,
- Organic Solar Cells,
- Organic Synthesis,
- Charge-Transfer Complexes,

Patent:

Names: Abdallah Zedan, S. Y. Al-Qaradawi,

Title: METHOD OF MAKING A COPPER OXIDE-TITANIUM DIOXIDE NANOCATALYST

Pub. No.: WO/2017/156330 **International Application No.:** PCT/US2017/021669

Publication 14.09.2017 **International Filing Date:** 09.03.2017

Date:

Patent Office: Patent Cooperation Treaty Application

US Patent App. 16/083,477, 2019

Refereed Journals Publications:

Published 65 ISI Web of Knowledge indexed international journal papers

Total number of citation = 1100 (Google scholars),

H-Index (HIRSCH INDEX) = 20

i10-index (publications sited more than 10 times during the last 5 years) = 16 (Google Scholar).

| Type | Refereed Journals | Conferences - oral | Conferences - poster | Patents | Awards |
|-------|-------------------|--------------------|----------------------|----------|----------|
| Total | 65 | 10 | 33 | 1 | 2 |

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

| # | Year | Paper's Details | Quality |
|----|-------------|---|---|
| 1. | 2020 | Improved Electrochemical Performance of SiO ₂ Coated Li-rich Layered Oxides-Li _{1.2} Ni _{0.13} Mn _{0.54} Co _{0.13} O ₂ ", Jeffin James Abraham; Umair Nisar; Haya Monawwar; Aisha Abdul Quddus; Abdul Shakoor; Mohamed I. Saleh; Ramazan Kahraman; Siham Al-Qaradawi; Amina S. Aljaber, Journal of Materials Science: Materials in Electronics, Springer Nature, Accepted Sept. 2020 | Q2 IF=2.195 |
| 2. | 2020 | Synthesis of lithium manganese oxide nanocomposites using microwave-assisted chemical precipitation technique and their performance evaluation in lithium-ion batteries, Jeffin James Abraham; Umair Nisar; Haya Monawwar; Aisha Abdul Quddus; Abdul Shakoor; Mohamed I. Saleh; Ramazan Kahraman; Siham Al-Qaradawi; Energy Storage, Accepted Aug. 2020 | Q1 IF=3.940 |
| 3. | 2020 | Rational one-pot synthesis of ternary PtIrCu nanocrystals as robust electrocatalyst for methanol oxidation reaction, Yahia H. Ahmad, Hany A. El-Sayed, Assem T. Mohamed, Amina S. Aljaber, Siham Y. Al-Qaradawi , Applied Surface Science, 534, 147617, 2020 | Q1 IF= 5.270 |
| 4. | 2020 | Facile One-Step Synthesis of Supportless Porous AuPtPd Nanocrystals as High Performance Electrocatalyst for Direct Glucose Fuel Cells, Yahia shoeb, Assem T Mohamed, Ahmed El-Shafei, Siham Al-Qaradawi ; Amina Aljaber, International Journal of Hydrogen Energy, 45, 19163, 2020 . | Q1 Material chemistry IF= 4.939 |
| 5. | 2020 | Highly Porous PtPd Nanoclusters Synthesized via Selective Chemical Etching as Efficient Catalyst for Ethanol Electro-oxidation Corresponding Author: Yahia Shoeb, Assem Mohamed; Abdullah Alashraf; Maha Matalqeh; Ahmed El-Shafei; Siham Al-Qaradawi , Amina Aljaber; Applied Surface Science, 508, 145222, 2020 . | Q1 IF= 5.270 |
| 6. | 2020 | Electronic, infrared, mass spectrometry and thermal studies on the reaction of 2-amino-6-methylpyridine with p-acceptors, Sherzod Madrahimov, Adel Mostafa, Veeranna Yempally, J. Fadlallah, Siham Y. Al-Qaradawi, Journal of Molecular Structure, 1199, 127021, 2020 , | Q3 IF=2.011 |
| 7. | 2019 | Understanding the Origin of the Ultrahigh Rate Performance of a SiO ₂ -Modified LiNi _{0.5} Mn _{1.5} O ₄ Cathode for Lithium-Ion Batteries", ACS Applied Energy Materials, Nisar, Umair; Petla, Ramesh Kumar; J. A. Al-Hail, Sara; Shakoor, Rana; essehli, Rachid; Kahraman, Ramazan; AlQaradawi, Siham; Kim, Do Kyung; Belharouak, Ilias; Amin, Md Ruhul, ACS Applied Energy Materials, 2(10), pp. 7263-7271, 2019 | still under caculation |
| 8. | 2019 | Natural Clay-Supported Palladium Catalysts for Methane Oxidation Reaction: Effect of Alloying, Yahia H. Ahmad, Assem T. Mohamed, Khaled A. Mahmoud, Amina S. Al-Jaber, Siham Y. Al-Qaradawi, RSC Advances, 9, 32928, 2019 | Q1 IF=3.049 |

| # | Year | Paper's Details | Quality |
|-----|------|--|--------------------------------|
| 9. | 2019 | Investigations into structure-property relationships of novel Ru(II) dyes with N,N'-Diethyl group in ancillary ligand for dye-sensitized solar cells Saba Ashraf, Rui Su, Javeed Akhtar, Humair M. Siddiqi, Ahmed Shuja, Khalid A. Al-Saad, Siham Y. Al-Qaradawi, Ahmed El-Shafei, <i>Dyes and Pigments</i> , 171, 107754, 2019 | Q1 IF= 4.018 |
| 10. | 2019 | Three-component one-pot reaction for molecular engineering of novel cost-effective highly rigid quinoxaline-based photosensitizers for highly efficient DSSCs application, Luping Lyu, RuiSu, Siham Y. Al-Qaradawi, Khalid A. Al-Saad, Ahmed El-Shafei, <i>Dyes and Pigments</i> , 171, 107683, 2019 | Q1 IF= 4.018 |
| 11. | 2019 | Bimetallic palladium-supported halloysite nanotubes for low temperature CO oxidation: Experimental and DFT insights, Yahia H. Ahmad, Assem T. Mohamed, Walid M.I. Hassan, Ahmed Soliman, Khaled A. Mahmoud, Amina S. Al-Jaber, Siham Y. Al-Qaradawi, <i>Applied Surface Science</i> , 493, 70-80, 2019. | Q1 IF =5.155 |
| 12. | 2019 | Precise Fabrication of Porous One-dimensional gC ₃ N ₄ Nanotubes Doped with Pd and Cu Atoms for Efficient CO Oxidation and CO ₂ Reduction, Aboubakr Ali, Mohammed Sharaf, Mostafa Sliem, Ahmed Elzatahry, Siham AlQaradawi, Khoulood Jlassi, Ghada G. Abdo, amal eldesoky, Kamel Eid, <i>Inorganic Chemistry Communications</i> , 107, 107460, 2019 | IF=1.795 |
| 13. | 2019 | UV-Vis, IR spectra, mass spectrometry and thermal studies of charge transfer complexes formed in the reaction of 1, 4, 8, 11-tetraazacyclotetradecane with π- electron acceptors, Adel Mostafa, S. Madrahimov, J. Fadlallah, Siham Y. Al-Qaradawi , <i>Journal of Molecular Liquids</i> , 284, 616-624, 2019, | Q1 IF =4.513 |
| 14. | 2019 | Rational Synthesis of Ternary PtIrNi Nanocrystals with Enhanced Poisoning Tolerance for Electrochemical Ethanol Oxidation, Yahia H. Ahmad, Asem T. Mohamed, Khaled M. Youssef, Subhajit Kundu, K. Andre Mkhoyan and Siham Y. Al-Qaradawi , <i>Electrochemistry Communications</i> , 101, 61-67, 2019 | Q1 IF=4.197 |
| 15. | 2019 | Synthesis, structural and lithium storage studies of Graphene-LiVSi ₂ O ₆ Composites, M V Venkatasamy Reddy, Shahul Hameed, Siham Y. Al-Qaradawi , <i>IONICS</i> , 25, 1559-1566, 2019 | Q1 IF=2.354 |
| 16. | 2018 | Sodium intercalation/de-intercalation mechanism in Na ₄ MnV(PO ₄) ₃ cathode materials, Umair Ahmad Nisar, R. A. Shakoor, Rachid Essehli; Ruhul Amin; Brahim Orayech, Zubair Ahmad, P. Ramesh Kumar, Ramazan Kahraman, Siham Y. Al-Qaradawi, Ahmed Soliman, <i>Electrochimica Acta</i> , 292, 98-106, 2018 | Q1 IF=5.383 |
| 17. | 2018 | Cu-CeO catalyst revisited for exceptional activity at low temperature CO oxidation reaction, Abdallah F. Zedan, Kyriaki Polychronopoulou, Ayesha Asif, Siham Y. Al-Qaradawi and Amina S. Al-Jaber, <i>Surface and Coatings Technology</i> , 354, 313-323, 2018, DOI:10.1016/j.surfcoat.2018.09.035, | Q1 in Chemistry IF=2.906 |
| 18. | 2018 | Transition metal nanoparticles doped carbon paper as a cost-effective anode in a microbial fuel cell powered by pure and mixed biocatalyst cultures, Hend Omar Mohamed, Enas Taha Sayed, M. Obaid, Yun-Jeong Choi, Sung-Gwan Park, Siham Al-Qaradawi, Kyu-Jung Chae, <i>International Journal of Hydrogen Energy</i> , 43/46, 2018, 21560-21571, | Q1 IF=4.229 |

| # | Year | Paper's Details | Quality |
|-----|-------------|---|---|
| 19. | 2018 | Versatile Synthesis of Pd and Cu Co-Doped Porous Carbon Nitride Nanowires for Catalytic CO Oxidation Reaction, Kamel Eid, Yahia H. Ahmad, Assem T. Mohamed, Anas G. Elsafy & Siham Y. Al-Qaradawi , <i>catalysts</i> , 8, 411, 2018 , DOI: 10.3390/catal8100411 | Q2 in Catalysis IF= 3.465 |
| 20. | 2018 | Synthesis and electrochemical characterization of Cr-doped lithium-rich $\text{Li}_{1.2}\text{Ni}_{0.16}\text{Mn}_{0.56}\text{Co}_{0.08-x}\text{Cr}_x\text{O}_2$ cathodes, Umair Nisar, Ruhul Amin, Abdul Shakoor, Rachid Essehli, Siham Al-Qaradawi , Ramazan Kahraman, Ilias Belharouak, <i>Emergent Materials</i> , 1-10, 2018 | - |
| 21. | 2018 | Synthesis and Performance Evaluation of Nanostructured $\text{NaFexCr}_{1-x}(\text{SO}_4)_2$ Cathode Materials in Sodium Ion Batteries (SIBs), Umair Nisar, Mona Hersi Gulied, R. A. Shakoor, Rachid Essehli; Zubair Ahmad, Abdullah Alashraf, Ramazan Kahraman and Siham Y. Al-Qaradawi , <i>RSC advances</i> , 8, 32985-32991, 2018. , DOI: 10.1039/c8ra06583g | Q1 IF= 2.936 |
| 22. | 2018 | Enhanced Photocatalytic Performance of WON@porous TiO_2 Nanofibers towards Sunlight-Assisted Degradation of Organic Contaminants, Yahia H. Ahmad, Assem T. Mohamed, Mostafa H. Sliem, Aboubakr M. Abdullah & Siham Y. Al-Qaradawi , <i>RSC Advances</i> , 8, 32747-32755, 2018 . DOI: 10.1039/c8ra06477f | Q1 IF= 2.936 |
| 23. | 2018 | Controlled Design of PtPd Nanodendrite Ornamented Niobium Oxynitride Nanosheets for Solar-Driven Water Splitting, Yahia H. Ahmad, Kamel A. Eid, Khaled Mahmoud & Siham Y. Al-Qaradawi , <i>New Journal of Chemistry</i> , 42(17), 14239–14245, 2018 , DOI: 10.1039/C8NJ03411G | Q1 Materials Chemistry IF = 3.277 |
| 24. | 2018 | Tailoring the Reducibility and Catalytic Activity of CuO Nanoparticles for Low Temperature CO Oxidation, Abdallah F. Zedan, Assem T. Mohamed, M. Samy El-Shall, Siham Y. Al-Qaradawi and Amina S. AlJaber, <i>RSC Advances (Q1 since 2012)</i> , 8(35), 19499-19511, 2018 . IF=3.108, DOI: 10.1039/c8ra03623c | Q1 IF= 2.936 |
| 25. | 2018 | Defect engineering in 1D Ti–W oxide nanotube arrays and their correlated photoelectrochemical performance, Ali A. Abdelhafiz, Mohamed A. Ganzoury, Ahmad W. Amer, Azza A. Faiad, Ahmed M. Khalifa, Siham Y. Al-Qaradawi , Mostafa A. El-Sayed, Faisal M. Alamgira and Nageh K. Allam*, <i>Physical Chemistry Chemical Physics (Q1 since 2004)</i> , 20 (15), 10258-10265, 2018 , DOI: 10.1039/c8cp01413b. | Q1 IF=4.449 |
| 26. | 2017 | Rational One-Step Synthesis of Porous PtPdRu Nanodendrites for Ethanol Oxidation Reaction with a Superior Tolerance for CO-poisoning, Yahia H. Ahmad, Kamel A. Eid, Hongjie Yu, Yinghao Li, Xiaonian Li, Siham Y. Al-Qaradawi , Hongjing Wang and Liang Wang, <i>Nanoscale (Q1 since 2010)</i> , published by the Royal Society of Chemistry, 9, 18881, 2017 . DOI: 10.1039/c7nr07609f | Q1 Material chemistry IF= 7.46 |
| 27. | 2017 | Highly active, durable and pH-universal hybrid oxide nanocrystals for efficient oxygen evolution, Yahia H. Ahmad, Kamel A. Eid, Nageh K. Allam & Siham Y. Al-Qaradawi , <i>Sustainable Energy & Fuels</i> , 2017, 1, 1123-1129, DOI: 10.1039/c7se00111h | - |

| # | Year | Paper's Details | Quality |
|-----|------|--|---|
| 28. | 2017 | An Efficient eco advanced oxidation process for phenol mineralization using a 2D/3D nanocomposite photocatalyst and visible light irradiation, Halema Al-kandari, Aboubakr Abdullah, Yahia Ahmad, Shekhah Al-Kandari, Siham Al-Qaradawi, and Ahmed Mohamed, <i>Scientific Reports</i> (Q1 since 2012), 7(1), 9898, 2017 . | Q1 multidisciplinary IF= 4.63 |
| 29. | 2017 | Rational design of porous binary Pt-based nanodendrites as efficient catalysts for direct glucose fuel cells over a wide pH range, Kamel A. Eid, Yahia H. Ahmad, Siham Y. Al-Qaradawi & Nageh K. Allam, <i>Catalysis Science & Technology</i> (Q1 since 2015), 7(13), 2819-2827, 2017 , DOI: 10.1039/C7CY00860K, IF= 5.64 | Q1 catalysis IF=5.726 |
| 30. | 2017 | A Study of Low-Temperature CO Oxidation over Mesoporous CuO-TiO ₂ Nanotube Catalysts, Abdallah F Zedan, Nageh K Allam, Siham Y AlQaradawi, <i>Catalysts</i> (Q2 since 2015), 7(5), 129; 2017. DOI: 10.3390/catal7050129, | Q2 in Catalysis IF= 3.465 |
| 31. | 2017 | Silver Nanoparticles-Decorated Titanium Oxynitride Nanotube Arrays for Enhanced Solar Fuel Generation, Khaled Soliman, Abdallah Zedan, Ahmed Khalifa, Hany El-Sayed, Amina Aljaber, Siham Y. AlQaradawi, and Nageh Allam, <i>Scientific Reports</i> , 7(1), 1913, 2017, DOI: 10.1038/s41598-017-02124-1 | Q1 multidisciplinary IF= 4.63 |
| 32. | 2017 | Rapid Microwave Assisted Sol-Gel Synthesis of CeO ₂ and CexSm1-xO ₂ Nanoparticle Catalysts for CO Oxidation, Kyriaki Polychronopoulou; Abdallah F Zedan; Marios S Katsiotis; Mark A Baker; Siham Y AlQaradawi; Steven J Hinder; Saeed AlHassan, <i>Journal of Molecular Catalysis A: Chemical</i> (Q3); 428, 41-55, 2017, | Q3 catalysis IF=3.958 |
| 33. | 2016 | Doping of Large Ionization Potential Indenopyrazine Polymers via Lewis Acid Complexation with Tris(pentafluorophenyl)borane: A Simple Method for Improving the Performance of Organic Thin-Film Transistors, Han, Yang; Barnes, George; Lin, Yen-Hung; Martin, Jaime; Al-Hashimi, Mohammed; AlQaradawi, Siham; Anthopoulos, Thomas; Heeney, Martin, <i>Chemistry of Materials</i> ; 28 (21), pp 8016–8024, 2016. DOI: 10.1021/acs.chemmater.6b03761. | Q1 IF=10.159 |
| 34. | 2016 | Conjugated co-polymers of vinylene flanked naphthalene diimide, Fei, Zhuping; Han, Yang; Perez, Jaime Martin; Scholes, Fiona; Al-Hashimi, Mohammed; AlQaradawi, Siham; Stingelin, Natalie; Anthopoulos, Thomas; Heeney, Martin, <i>Macromolecules</i> , 49, 6384-6393, 2016 , DOI: 10.1021/acs.macromol.6b01423 | Q1 IF=5.914 |
| 35. | 2016 | On the Nature of Defect States in Tungstate Nanoflake Arrays As Promising Photoanodes in Solar Fuel Cells, Aya M. Mohamed, Ahmad W. Amer, Siham Y. Al-Qaradawi and Nageh K. Allam, <i>Physical Chemistry Chemical Physics</i> , 18(32), 22217 – 22223, 2016 , | Q1 IF=3.567 |
| 36. | 2016 | Computational study on oxynitride perovskites for CO ₂ photoreduction, Ahmed Hafez, Abdallah Zedan, Siham Y. Al-Qaradawi and Nageh Allam, <i>Energy Conversion and Management</i> , 122, 207-214, 2016 , DOI: 10.1016/j.enconman.2016.05.069 | Q1 IF=6.04 |

| # | Year | Paper's Details | Quality |
|-----|------|--|-----------------|
| 37. | 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 Y. Al-Qaradawi , Scott Watkins, Thomas D Anthopoulos, Martin Heeney, Chemical Science , 7(2), 1093-1099, 2016. (DOI: 10.1039/C5SC03501E0), | Q1 IF= 9.556 |
| 38. | 2016 | Charge-transfer complexes formed in the reaction of 2-amino-4-ethylpyridine with pi-electron acceptors, Siham Y. Al-Qaradawi , Adel Mostafa, A. A. Bengali, JOURNAL OF MOLECULAR STRUCTURE , 1106, 10-18, 2016, | Q3 IF= 2.120 |
| 39. | 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 , 9(11), 11317-11324, 2015 DOI: 10.1021/acsnano.5b05030 | Q1 IF=13.903 |
| 40. | 2015 | TiO ₂ Nanotubes with Ultrathin Walls for Enhanced Water Splitting, Ahmad M Mohamed, Amina S Aljaber, Siham Y Al-Qaradawi and Nageh Allam, Chem. Commun. , 51(63), 12617–12620, 2015, DOI: 10.1039/C5CC04539H, | Q1 IF=6.06 |
| 41. | 2015 | Spectroscopic and Thermal Characterization of Charge-Transfer Complexes Formed In the Reaction of 2-Amino-6-Ethylpyridine with π -Electron Acceptors, Adel Mostafa, A. A. Bengali, Siham Y. AlQaradawi , international Journal of Modern Engineering Research, 5 (1), 1-14, 2015 | - |
| 42. | 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. | Q2 IF=2.931 |
| 43. | 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. , 4(68), 36336 - 36343, 2014, DOI: 10.1039/C4RA05115G, | Q1 IF=3.049 |
| 44. | 2014 | Spectrophotometric and thermal studies on the charge-transfer complexes of 4-(aminomethyl) piperidine as donor with σ - and π -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=2.47] | Q2 IF=2.931 |
| 45. | 2014 | Z-scan and optical limiting properties of Hibiscus Sabdariffa dye, A. Diallo, S. Zongo, P. Mthunzi, S. Rehman, S. Y. Alqaradawi, W. Soboyejo, M. Maaza, Applied Physics B, 3, 117, 861–867, | Q1 IF=1.782 |
| 46. | 2013 | Charge – transfer complexes formed in the reaction of 1,4,7,10-tetraazacyclo-dodecane with n - electron acceptors, Siham Y. Al- | Q3 IF=2.011 |

| # | Year | Paper's Details | Quality |
|-----|-------------|--|-----------------------|
| | | Qaradawi , Adel Mostafa and Hassan S. Bazzi, JOURNAL OF MOLECULAR STRUCTURE, 1037, 209-217, 2013 . [IF=1.58] | |
| 47. | 2012 | Synthesis, spectroscopic and thermal studies of charge - transfer molecular complexes formed in the reaction of 1,4-Bis (3-Aminopropyl) piperazine with σ - and π acceptors, Siham Y. Al-Qaradawi , Adel Mostafa and Hassan S. Bazzi, JOURNAL OF MOLECULAR STRUCTURE, 1011, 172-180, 2012 . [IF=1.58] | Q3 IF=2.011 |
| 48. | 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(1-3), 126-135, 2011 . [IF=1.58] | Q3 IF=2.011 |
| 49. | 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(1-3), 218-224, 2010 . [IF=1.58], http://dx.doi.org/10.1016/j.molstruc.2010.07.017 | Q3 IF=2.011 |
| 50. | 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, 71(4), 1594-1598, 2008 . [IF=2.47] | Q2 IF=2.931 |
| 51. | 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(1-3), 60-71, 2008 . [IF=1.58] | Q3 IF=2.011 |
| 52. | 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=2.47] | Q2 IF=2.931 |
| 53. | 2007 | Synthesis and spectroscopic structural investigations of the charge-transfer complexes formed in the reaction of 2,6-diaminopyridine with π -acceptors TCNE, chloranil, and DDQ, Hassan S. Bazzi, Adel Mostafa, Siham Y. Al-Qaradawi and E. M. Nour, JOURNAL OF MOLECULAR STRUCTURE, 842(1-3), 1-5, 2007 . | Q3 IF=2.011 |
| 54. | 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(1-3), 251-254, 2006 . | Q3 IF=2.011 |
| 55. | 2005 | Spectroscopic investigation of the novel charge-transfer complex [(phen) (TCNE) ₁₂] formed in the reaction of phenacetin with tetracyanoethylene, Siham Y. Al-Qaradawi and E. M. Nour, | Q2 IF=2.931 |

| # | Year | Paper's Details | Quality |
|-----|------|--|-----------------|
| | | SPECTROCHIMICA ACTA PART A - MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, 62(1-3), 578-581, 2005. [IF=1.98] | |
| 56. | 2004 | Synthesis and Spectroscopic Studies of the Charge-Transfer Complexes of 2,3-Diaminopyridine and π -Electron Acceptors, Siham Y. Al-Qaradawi and E. M. Nour, Spectroscopy Letters, 37(4), 337-345, 2004. [IF=0.67] | Q3 IF=1.081 |
| 57. | 2004 | Novel Mercaptopurine & Thioguanine Analogues: The Reaction of Dimethyl <i>N</i> -Cyanodithioiminocarbonate with oxo- and Amino-Diazoles, Siham Y. Al-Qaradawi and Galal H. Elgemeie, Synthetic Communications, 34(5), 805-815, 2004. | Q3 IF= 1.377 |
| 58. | 2004 | Prevention of gallium arsenide photocorrosion by an epoxy adhesion layer, Siham Y. Al-Qaradawi , Eman M. Elnemma and Mahmoud M. Khader, Int. J. Adhesion & Adhesives, 24(3), 219-227. 2004 | Q1 IF=2.501 |
| 59. | 2003 | Activation and Stabilization of gallium arsenide anode in an aqueous photoelectrochemical cell, Siham Y. Al-Qaradawi , Amina S. Aljaber and Mahmoud M. Khader, Thin Solid Films, 444(1-2), 282-289, 2003 | Q2 IF= 1.939 |
| 60. | 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 | Q3 IF=0.819 |
| 61. | 2002 | Photocatalytic Degradation of Methyl Orange as a Model Compound, Siham Y. Al-Qaradawi , and S. R. Salman, J. Photochemistry and Photobiology, 148(1-3), 161-168, 2002. | Q1 IF=3.261 |
| 62. | 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(5), 572-578, 2000. [IF=1.18] | Q3 IF=1.016 |
| 63. | 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. | - |
| 64. | 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 | - |
| 65. | 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. | Q3 |
| 66. | 1992 | Intramolecular photocycloaddition of 4-phenoxybut-1-enes: a convenient access to the 4-oxatricyclo[7.2.0.0 ^{3,7}]undeca-2,10-diene skeleton. Siham Y. Al-Qaradawi ; Cosstick, Kevin; Gilbert, Andrew, J. Chem. Soc., Perkin Trans. 1, 9, 1145-1148, 1992. | IF=1.29 |

| # | Year | Paper's Details | Quality |
|-----|------|---|---------|
| 67. | 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 , <i>57</i> , 4, 221-31. | Q3 |

First Author Articles: 21

Co-authored: 30

Corresponding Author: 15

Research Group:

1 Postdoctoral Fellow; 3 Research Assistants, 4 undergraduate students

Review of Research Proposals:

Nov. 2015:

A proposal from the Center of Advanced Materials (CAM), Qatar University, Qatar
Title: New generation of electrocatalyst and membranes for direct methanol fuel cell applications.

Aug. 2014:

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

Total Funding:

\$7,103,744

Funded Research Grants (External):

A) Active Grants from Qatar National Research Fund (QNRF), QF:

1- NPRP12S -0304-190218

Sustainable Solar-Driven Biofuel Generation from Industrial Wastewater without External Bias, **LPI**, 2020-2023, \$599,964

2- NPRP 11S -1225-170128

Optimization of high voltage cathodes and electrolytes of lithium ion batteries for grid applications in Qatar climate conditions, **PI**, 2018-2021, \$599,731

3- UREP 25-007-2-005

Development of MXene based High Capacity Anode Materials for Lithium Ion Batteries (LIBs), Research Mentor, \$30,000

B) Completed Projects from Qatar National Research Fund, 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**, 2015-2018, \$ **896,656.92**

2- NPRP 7 - 301 - 2 – 126,

"High Performance Silicon Negative Electrodes for High Energy Density Lithium Battery Applications", Co-**LEAD PI**, 2015-2018, \$ **898,883.25**

3- NPRP 6-351-1-072,

"Coupling Nanomaterials and Solar Energy to Convert CO₂ into Useful Fuel", **LEAD PI**, 2013-2017, \$ **1,014,854.40**

4- NPRP 6-452-1-089,

"Comparative assessment of small molecule donors for organic photovoltaics", **Co-LEAD PI**, 2013-2017, \$ **988,691.40**

5- NPRP 6-569-1-112,

"Design of Multifunctional Nanostructured Systems for Efficient Solar Energy-Driven Clean Fuel Production", **PI**, 2013-2017, \$**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**.

7- UREP22-008-2-004

"Novel high potential cathode materials for next generation lithium ion batteries", Research Mentor, 2018-2019, \$**30000**

C) Completed Students Research Projects from Qatar University:

QUST-CAS-SPR-15/16-29

Qatar University Student Grant Application entitled: "Novel Low-cost Open Framework Cathodes for Li/Na-ion Batteries", **8000 QR**. May 18, 2016 - Dec 31, 2016

QUST-1-CAS-2019-31

Qatar University Student Grant Application entitled: "High Potential Cathode Materials for Next Generation Sodium/Lithium Ion Batteries", Jan. 2019 - May 2019, **QR10000**

Active Funded Research Grants (Internal from QU):

- **QUCG-CENG-19/20-7: Collaborative Grant:** Noble Metal-Embedded Lanthanum-Nickel Hybrid Oxide as a Promising Efficient and Highly Stable Single Atom Catalyst for Dry Reforming of Methane [PI].
- **IRCC-2019-003: International Research Collaboration Co-Funds:** A semiconducting electrodes for photoelectrochemical energy conversion [PI], in collaboration with UCCS - Université d'Artois, Faculté des Sciences Jean Perrin, Rue Jean Souvraz, France

International, Reginal & National Research Collaborations:

- 1- Université d'Artois, Faculté des Sciences Jean Perrin, 62300 Lens, **France**
- 2- Karlsruher Institute for Technology (KIT), **Germany**
- 3- Northwestern University, Chicago, **USA**
- 4- Imperial College, London, **UK**
- 5- Korea Advanced Institute for Science & Technology [KAIST], **Korea**
- 6- Seoul National University [SNU], **Korea**
- 7- Korea Maritime and Ocean University (KMOU), **Korea**
- 8- American University in Cairo [AUC], **Egypt**
- 9- Hamad Bin Khalifa University, Doha, **Qatar**

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, since **2014**
- 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)) Referee for international Scientific Journal:

Regularly reviewed articles, research papers for the following international refereed journals:

- 1- ACS Applied Materials & Interfaces (ACS)
- 2- Spectroscopy Letters (Publisher; Taylor & Francis).
- 3- Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (Publisher, Elsevier).
- 4- Chemical Physics (Publisher, Elsevier).
- 5- Journal of Molecular Structure (Publisher, Elsevier).
- 6- Journal of Molecular Liquids (Publisher, Elsevier).
- 7- Journal of Spectroscopy (Hindawi Publishing Corporation)
- 8- Arabian Journal of Chemistry (Publisher, Elsevier).
- 9- Vacuum (Publisher, Elsevier).
- 10- Emergent Materials, Springer

C)) Review of Conference Papers:

- The 10th International Arab Conference on Quality Assurance in Higher Education, **IACQA 2020**, April 2020, AlZarqa University, Jordan
- The 7th International Arab Conference on Quality Assurance in Higher Education, **IACQA 2017**, 20-23rd Feb. 2017, Assiut University, Egypt
- The 6th International Arab Conference on Quality Assurance in Higher Education, **IACQA 2016**, 9-11th Feb. 2016, Sudan
- The 5th International Arab Conference on Quality Assurance in Higher Education, **IACQA 2015**, 3-5th March 2015, Sharjah University, UAE

- The 4th International Arab Conference on Quality Assurance in Higher Education, **IACQA 2014**, 1-3rd April 2014, AlZarqa University, Jordan
- The 3rd International Arab Conference on Quality Assurance in Higher Education, **IACQA 2013**, 2-4th April 2013, Zaitona University, Jordan
- The International Conference of Higher Education in the Arab World: Future Horizons, Islamic University in Ghaza, 15-18th Jan. 2013.
- The 2nd International Arab Conference on Quality Assurance in Higher Education, **IACQA 2012**, 4-5th April 2012, Gulf University, Bahrain.

D)) Review of Research Proposals:

-Research Proposal from Center of Advanced Materials (CAM), Qatar University, Qatar, **Nov. 2015**

-Research Proposal (IG/SCI/15/01), Sultan Qaboos University, Sultanate Oman, **Aug. 2014**

Program Development:

Leading the efforts to establish the MSc Chemistry program which will start in Sept. 2020.

Teaching Experience:

I taught Organic Chemistry courses for Chemistry, Pharmacy, 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 Flashcards technique. Proficient with the use of BlackBoard 9.1.

Teaching tools:

Blackboard, PowerPoint, Smart Projector, Web courses, and videos

Teaching Duties:

I've been teaching for 35 years at Qatar University. I was involved in teaching, developing (*), and upgrading curricula (***) for several courses and laboratories, some of which are:

Teaching Skills:

- Demonstrated excellent presentation skills
- Developed effective lessons and taught strategies
- Able to remain calm and maintain an objective viewpoint under pressure
- Motivated, encouraged and built a relationship with students of all backgrounds
- Provided individual tutoring to ensure comprehension of material content
- Experienced in teaching Organic Chemistry
- Adapted presentation of material to ensure complete comprehension by students
- Experienced in making, conducting, invigilating, & marking laboratory quizzes, & exams
- Effectively presented material in an innovative context to stimulate interest and enthusiasm

- Regular user of various search engines for keeping updated knowledge of chemistry techniques
- Regular user of chemistry molecular models for teaching shapes & stereochemistry of complex compounds
- Recognized by staff, faculty, and students as a professional who cares deeply about the students

Theoretical courses:

| | Course number | Course Title |
|-----|----------------------|-----------------------------------|
| 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:

| | Course number | Course Title |
|---|----------------------|-----------------------------------|
| 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 209 | Fundamentals in Organic Chemistry |

| | Course number | Course Title |
|----|----------------------|--|
| 7 | CHEM 211 | Organic Chemistry (I)** |
| 8 | CHEM 213 | Experimental Organic Chemistry (I) |
| 9 | CHEM 217 | Experimental Organic Chemistry (II) |
| 10 | CHEM 261 | General Organic Chemistry |
| 11 | CHEM 303 | Experimental & Spectroscopic Chemistry |
| 12 | CHEM 364 | Preparation Chemistry |

Course Coordination:

CHEM 209 (Fundamentals in Organic Chemistry): Fall 2015-Spring 2017

Faculty Performance Review and Development System:

2019: distinguished (3.90)
 2018: distinguished (3.90)
 2017: distinguished (4.00)
 2016: distinguished (3.80)
 2015: distinguished (3.80)
 2013-2014: Above expectation (3.65)
 2012-2013: Above expectation
 2011-2012: Above expectation
 2010-2011: Sabbatical/Fulbright Scholar (USA)
 2004-2010: Admin. Positions (head of Dept., Associate Dean, Dean)

Students Evaluation:

(Scores are based on anonymous feedback collected online from the students after completion of each semester)

For Special topics: Ranging from 85-100%
 For advanced Organic Chemistry: Ranging from 90 – 95%
 For Lower Level Courses: Ranging from 85-95%

Curriculum revision & Course Development:

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

| | |
|----------|-----------------|
| CHEM 407 | Photochemistry* |
| CHEM 461 | Special Topics* |

INTRODUCING NEW ACADEMIC PROGRAMS:

I am the chair of the curriculum committee to develop the new Master's program in Chemistry (Sept. 2015 – Present).

SERVICE TO THE PROFESSION AND COMMUNITY:

Services to the International Community:

- Virtual Seminar to the Islamic University of Gaza, the women and higher education, “my scientific journey: the challenges and solutions”, **7-8th Oct. 2020**,
- Skype Seminar to the Islamic University of Gaza, the 2nd Scientific Research week, “my scientific journey: the challenges and lessons learned”, **22-26th April 2017**,
- Skype Seminar to the Islamic University of Gaza, “Catalytic CO Conversion over CuO-TiO₂ Nanostructures”, **7th March 2016**
- Organic Chemistry Book Chapter Referee from Tafila Technical University, Jordan, **Feb. 2016**
- Promotion Referee for promotion Dossier from Mu'tah University, Jordan, **Nov. 2015**

Services to the Qatari Community:

- Member, Review Committee for Scientific Exhibition, Amna Bint Wahab Secondary School, Ministry of Education & Higher Education **8th Jan. 2020, Doha, Qatar**.
- Member, the scientific committee for the 16th International Junior Science Olympiad [IJSO 2019], **April-Dec. 2019**, organized by the Ministry of Education and Higher Education in collaboration with Qatar University,
- Judge, the 2019 National Scientific Research Competition (NSRC), the National Science Week and National Education Conference, the Qatar National Convention Centre in collaboration with Qatar National Research Fund (QNRF) and the Ministry of Education and Higher Education (MoE&HE), **10-12th March 2019, Doha, Qatar**
- Member, Review Committee for Scientific Exhibition, Amna Bint Wahab Secondary School, Ministry of Education & Higher Education **16th Jan. 2019, Doha, Qatar**.
- Judge, Poster Session, The 6th Junior Scientists' Symposium, **11th December 2018**, Anti-Doping Lab. in Qatar [ADL], **Doha, Qatar**
- Judge, the National Scientific Research Competition (NSRC), QNRF, **13-15th March 2017, Doha, Qatar**
- Jury Member, the FameLab Heats, A competition hosted by the British Council and QNRF on **1-2 March 2017**, Millennium Hotel, **Doha, Qatar**
- Member, Review Committee for Qatari School Students Research, 8th Cycle, Ministry of Education & Higher Education **15th March 2016, Doha, Qatar**.
- Judge, the seminal Qatar STEM Fair 2016, National competition for Qatar-based high school student teams, Qatar National Convention Center, **8-10th March 2016, Doha, Qatar**,
- Jury Member, the FameLab Heats, A competition hosted by the British Council and QNRF on **13th Feb. 2016 & 20th Feb. 2016, Qatar University, Doha, Qatar**

- Member, Review Committee for Secondary School Research Experience Program (**SSREP**), QNRF: 5th cycle, **May 2015, Doha, Qatar.**
- Member, Review Committee for the Intel Science Competition Arab World (ISC-AW 2015), **24-25th March 2015**, Qatar National Convention Center, **Doha, Qatar.**
- Member, Review Committee for Qatari School Students Research, 7th Cycle, Supreme Education Council, **23rd March 2015, Doha, Qatar.**
- Member, Review Committee for the Intel Science Competition Arab World (ISC-AW 2014), **9-11th Nov. 2014**, Qatar National Convention Center, **Doha, Qatar.**
- Member, Review Committee for Secondary School Research Experience Program (**SSREP**), QNRF: 4th 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, **16th March 2014, Doha, Qatar**
- Member, Review Committee for Secondary School Students Research, 6th Cycle, Supreme Education Council, **March 2014, Doha, Qatar.**
- Member, Review Committee for Secondary School Research Experience Program (**SSREP**), QNRF: 3rd cycle, **June 2013.**
- Member, Review Committee for Secondary School Students Research, 5th 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, **31st Jan. 2013, Doha, Qatar.**
- Member, Review Committee for Secondary School Research Experience Program (**SSREP**), QNRF: 2nd cycle, **May 2012.**
- Member, Review Committee for Secondary School Students Research, 4th Cycle, Supreme Education Council, **April 2012, Doha, Qatar.**
- A 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, 7th **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, 16th **Nov. 2011.**
- Lecture for announcing the "BIG SCIENCE CHALLENGE Competition" organized by the British Council in Doha and Rolls-Royce, 24th **Oct. 2011**
- Member, Review Committee for Secondary School Research Experience Program (**SSREP**), QNRF: 1st 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 – 2016**.
- 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- 2nd -14th **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- 30th April – 18th **May 1994**.

Services to Qatar University:

- Member, **organizing committee**, the 8th Global Conference on Global Warming (GCGW-2019), Doha, Qatar, April 22 – 25, **2019**,
- Member, Faculty Senate, Feb. 2018- Feb. 2020
- Chair, Research Committee, Faculty Senate, Feb. 2018- Feb. 2020
- Involved in the ABET accreditation for the College of Engineering by offering my organic chemistry course portfolios for the ABET committee in addition to group meetings and discussions. **2011 & 2016**.
- 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
- An academic advisor at faculty of Science, Qatar University, 1998 -2004.
- An academic advisor at the Chemistry Department, Qatar University, 1994 -2004.

Services to the Dept. of Chemistry & Earth Sciences:

Serving as **faculty advisor** to establish ACS Chapter at Qatar University: Nov. 2015 – present. My role is: to help in planning and organizing the workshops, seminars and other activities.

Laboratory Skills:

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

Oral Presentations at Conferences:

- 1) Research Outcome Seminar (ROS) on Computational Methods, Thursday, **5th April 2018**, General Electric QSTP, Building A4. Auditorium @ Podium Level, Qatar Science Technology Park (QSTP), **Doha, Qatar**. Title: "TiO₂ as photocatalyst, Challenges and achievements",
- 2) The International Scientific Forum, Langkawi Island, **Malaysia**, 19th-20th **November 2017**. Title: "Precise Design of PtPd Nanodendrites Ornamented Niobium Oxynitride Nanocrystals for Direct Solar-driven Hydrogen Evolution".
- 3) The 10th International Conference and Exhibition on Chemistry in Industry; the ChemIndix 2016 Conference & Exhibition, "SUSTAINABLE ENERGY: INDUSTRY THROUGH INNOVATIVE CHEMISTRY", 21-23 **November 2016**; **Kingdom of Bahrain**. Presentation Title: Low-Temperature CO Oxidation over CuO-TiO₂ Nanocatalysts, (**Keynote speaker**).
- 4) The 15TH WORLD RENEWABLE ENERGY CONGRESS 2016 (15TH WREC), in conjunction with 5TH INDONESIA RENEWABLE ENERGY AND ENERGY CONSERVATION SUMMIT (5TH IRES), 19-23rd Sept. 2016, **Jakarta, Indonesia**, "SUSTAINABLE ENERGY FOR ALL AND ALL FOR SUSTAINABLE ENERGY, Presentation Title: Low-Temperature CO Oxidation over CuO-TiO₂Nanocatalysts, (**Keynote speaker**)
- 5) Material Science for Energy Research Outcomes Seminar, **25th May 2016**, the Tornado Tower, 5th floor, Qatar National Research Fund, **Doha, Qatar, Keynote Speaker**, title: "Efficient Mixed Oxide Catalyst for Preferential CO Oxidation and Hydrogen Purification"
- 6) The Royal Society of Chemistry Second Gulf Symposium, "Design and Applications of Advanced Materials", **10th December 2014**, Department of Chemistry & Earth Sciences, Qatar University, **Doha, Qatar. Keynote Speaker**,
- 7) The International Conference of Science and Technology, Cornell University, **New York, USA**, 11-12th August 2014, "Photoconversion of CO₂ into Fuel", (**Invited Speaker**)
- 8) WORLD RENEWABLE ENERGY CONGRESS 13, WREC XIII, University of Kingston, **LONDON, UK**, 3-8th August 2014, [Renewable Energy in the service of Mankind], Oral Presentation: "*Photocatalytic Conversion of CO₂ into Hydrocarbon Fuels on Decorated-TiO₂ Nanotube Arrays*". (**Invited Speaker**).
- 9) The 8th International Conference on Solar Energy and Applied Photochemistry [SOLAR '05], **Luxor, Egypt**, 20-25th Feb. 2005. (**Invited Speaker**).
- 10) The 8th Arab International Solar Energy Conference & The Regional World Renewable Energy Congress, **Kingdom of Bahrain**, 8-10th March 2004. (**Invited Speaker**).

Poster Presentation at Conferences

- 1) International Conference on Renewable Energy 2020, **25-27th Nov. 2020**.
Title: Microwave-Assisted Chemical Synthesis of Lithium Manganese Oxide - MXene Composite for Lithium-Ion Batteries, Hanan Tariq, Abdul Shakoor, Aisha Abdul Qadoos, Jeffin James, Siham Alqaradawi.
- 2) The 2nd International **Online** - Conference on Nanomaterials "Nanotechnology for Energy, Environment, Catalyst and Sensing", **15-30 November 2020**.

Title: Synthesis and performance evaluation of high performing $\text{Fe}(\text{SO}_4)_3$ as cathode material in Na-ion batteries by nano coatings, Aisha Abdul Quddus, Abdul Shakoor, Hanan Tariq, Ramazan Kahraman, Siham Al-Qaradawi

- 3) Qatar University Annual Research Forum and Exhibition 2020 **Online**, "University of the Future: Re-Imagining Research and Higher Education" **28th Oct. 2020**, Qatar University, Doha, Qatar, Poster title: SiO_2 Coated Li-rich Layered Oxides- $\text{Li}_{1.2}\text{Ni}_{0.13}\text{Mn}_{0.54}\text{Co}_{0.13}\text{O}_2$ for efficient energy storage applications, James Abraham, Jeffin; Nisar, Umair; Monawwar, Haya; Abdul Quddus, Aisha; Shakoor, Abdul; Saleh, Mohamed; Kahraman, Ramazan; Al-Qaradawi, Siham; Aljaber, Amina
- 4) The 8th International Conference on Nano and Materials Science [ICNMS 2020], Umair Nisar, R. A Shakoor, Jeffin James Abraham, Ramazan Kahraman, and Siham Al-Qaradawi, Title: Effect of ZrO_2 Surface Coatings on the Electrochemical Performance of $\text{Li}_{1.2}\text{Ni}_{0.16}\text{Mn}_{0.56}\text{Co}_{0.08}\text{O}_2$ Cathode Materials, **January 17-20, 2020, Seattle, WA, USA**
- 5) The International Conference on Sustainable Energy-Water-Environment Nexus in Desert Climate [IC-SEWEN'19] organized by Qatar Environment and Energy Research Institute (QEERI), **2nd-5th Dec. 2019, QNCC, Doha, Qatar**, "Facile Synthesis of Binary Phosphide as Active and Durable Catalyst for Electrochemical Oxygen Evolution", Assem Mohamed, Yahia Shoeb, Amina Al Jaber and Siham Al-Qaradawi.
- 6) Science for Sustainable Development Conference [SSD2019], "Towards integrated and sustainable resource management discussion panel", **4-5th November 2019**, Qatar University, Research Complex, **Doha, Qatar**. Title: synthesis and characterization of composite electrode LiMn_2O_4 - $\text{LiMn}_{1.75}\text{Al}_{0.25}\text{O}_4$ Materials for Li-ion Batteries. Aisha Abdul Quddus; Haya Monawwar; Umair Nisar; R. A. Shakoor; Ramazan Kahraman; Siham Al-Qaradawi.
- 7) The 8th Global Conference on Global Warming-2019 (GCGW-2019), **April 22-25, 2019, Doha, Qatar**.
Poster#1: Catalytic Performance of Binary Palladium Nanoalloys@Nanoclay Towards Low Temperature Methane Oxidation" Siham Al-Qaradawi, Yahia Ahmad, Assem Mohamed, Khaled Mahmoud
Poster#2: Facile Synthesis of CuO @Binary Metal Oxides for Catalytic Oxidation of Carbon Monoxide" Aya Abdirazaq Ali, Yahia Ahmad, Assem Mohamed, Siham Al-Qaradawi, **Chairing a session**,
- 8) QU Research Forum 2019, The Transformation Within the Industry 4.0 Revolution, **23-24th April 2019, Qatar University, Doha, Qatar**,
Title: Synthesis and Characterization of Composite Electrode LiMn_2O_4 - $\text{LiMn}_{1.75}\text{Al}_{0.25}\text{O}_4$ Materials for Li-ion batteries
Abdul Quddus, Aisha; Monawwar, Haya; Nisar, Umair; Shakoor, Abdul; Kahraman, Ramazan; Al-Qaradawi, Siham
- 9) The Silver Jubilee Assembly of Advanced Materials Congress [AFMC2019], **Stockholm, Sweden, 23rd – 27th March 2019**, Title: Rational Synthesis of Binary Palladium Alloys-Supported Nanoclay for Low Temperature CO Oxidation, Siham Y. Al-Qaradawi, Yahia H. Ahmad, Assem T. Mohamed, and Khaled A. Mahmoud,
- 10) International Conference on Smart Nanomaterials, Organized by Center for Advanced Materials, Qatar University and Fudan University, China, **24-25th Feb. 2019**, Research Complex, **Qatar University, Doha, Qatar**

Title: Carbon-coated $\text{Li}_3\text{CrV}(\text{PO}_4)_3$ as a Cathode Material for Li-ion Batteries, Jeffin James, Umair Ahmad Nisar, R. A. Shakoor, Ramazan Kahraman, Siham Y. Al-Qaradawi,

- 11) The Materials Research Society (MRS), **Boston, USA, 25-30th Nov. 2018**,
Title: Synthesis and Electrochemical Characterization of Cr-doped Lithium-rich $\text{Li}_{1.2}\text{Ni}_{0.16}\text{Mn}_{0.56}\text{Co}_{0.08-x}\text{Cr}_x\text{O}_2$ Cathodes for Lithium-ion Batteries, Umair Ahmad Nisar, Ruhul Amin; R. A. Shakoor, Rachid Essehli; Siham Y. Al-Qaradawi, Ramazan Kahraman, Ilias Belharouak,
- 12) The Second Youth Research Forum, Research Complex, Qatar University, Doha, **Qatar, 27-28th Nov. 2018**.
Title: Synthesis & Characterization of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ Cathode Material using Microwave Sintering, Saoud M. Al-Mesallam, Umair Nisar, R. Shakoor, Ramazan Kahraman, Siham Al-Qaradawi
- 13) The Second Youth Research Forum, Research Complex, Qatar University, Doha, **Qatar, 27-28th Nov. 2018**.
Title: Synthesis & Performance Evaluation of Nanostructured $\text{NaFe}_x\text{Cr}_{1-x}(\text{SO}_4)_2$ Cathode Materials in sodium ion batteries (SIBs), Mona H. Gulied, Umair Nisar, Rachid Essehli, R. Shakoor, Zubair Ahmad, Abdullah Alashraf, Ramazan Kahraman, Siham Al-Qaradawi and Ahmed Soliman,
- 14) The International Conference on Renewable Energy and Power Engineering (REPE 2018), Toronto, **Canada, 24-26th Nov. 2018**.
Title: Synthesis and Performance Evaluation of Nanostructured $\text{NaFe}_x\text{Cr}_{1-x}(\text{SO}_4)_2$ Cathode Materials in Sodium Ion Batteries (SIBs)
- 15) NANOSMAT-AFRICA 2018 International Conference on Surfaces, Coatings and Nanostructured Materials, **19th-23rd November 2018**, Cape Town, South Africa.
Title: Enhanced Photocatalytic Activity of WON/TiO_2 Nanofibers Heterojunction towards Photocatalytic Degradation of Organic Dyes.
- 16) Qatar Foundation Annual Research Conference Proceedings [ARC18], **19-20th March 2018, Doha, Qatar**, EEPD678, "NASICON based $\text{Na}_4\text{MnVPO}_4$ 3/MWCNTs Cathode Materials for Na-ion Batteries with Improved Electrochemical Performance", R Essehli, U Nisar, A Alashraf, SYA Alqaradawi, R Kahranamn, A. Shakoor
- 17) The 5th Kuwait Conference of Chemistry, KCC 2018, organized by Kuwait Chemical Society (KCS), "Chemistry for Better Future", **Kuwait, 12th – 14th March 2018**,
Poster title: "Structure Tailoring of PtPd Nanodendrites Sensitized Niobium Oxynitride for Photoelectrochemical Hydrogen Evolution".
Poster title: Shape-Dependent Electrocatalytic Activity of Gold Nanoparticles towards the Oxidation of Glucose.
- 18) The 9th Symposium on Material Sciences and Engineering organized by Centre for Advanced Materials [CAM], Qatar University and Texas A&M University at Qatar, **26th Feb. 2018**, Research complex, **Qatar University, Doha, Qatar**.
Title: Lithium-rich $\text{Li}_{1.2}\text{Mn}_{0.56}\text{Ni}_{0.16}\text{Co}_{0.08-x}\text{Cr}_x\text{O}_2$ as a Stable Electrode Material for Li-ion Batteries.
Title: Transition-metal free homo-polymerization of pyrrole[2,3-d:5,4-d']-Bisthiazoles (PBTZ).
- 19) The 16th International Symposium on Electroanalytical Chemistry (16th ISEAC), Changchun, **China**, 16-25th Aug. **2017**,
Title: "Rational Fabrication of Porous Ternary Nanocatalysts for Ethanol Oxidation Reaction with a Superior Tolerance for CO-poisonings".

- 20) Qatar University Annual Research Forum & Exhibition 2017, "research beyond boundaries", New Research Complex, Qatar University, **Doha, Qatar, 3-4th May 2017**
Title: Synthesis and characterization of a novel metal organic-inorganic hybrid framework material for Na-ion batteries.
- 21) Texas A & M University at Qatar 2017 Research Industry Partnership Showcase, Sheraton Hotel, **Doha, Qatar, 20th April 2017,**
Title: Transition metal free Homo-polymerization of Pyrrolo [3,2-d:4,5-d']bisthiazole (PBTz).
- 22) The Youth Forum, Qatar University, research complex, Doha, **Qatar, 20th April 2017,**
Title: "sustainable energy & reducing the pollution",
- 23) The NanoWorld Conference, "Emerging Researcher Forum", 3-5th April 2017, **Boston, USA.**
Title: "Enhanced Solar Water Splitting on Ag modified Titanium Oxynitride Nanotube Arrays"
- 24) The 253rd ACS National Meeting in **San Francisco, California, USA**, April 2-6, 2017.
Title: "Novel transition-metal-free homo-polymerization of Pyrrolo[3,2-d:4,5-d'] Bisthiazole (PBTz) using turbo-Grignard for organic electronics"
- 25) THE SOCIETY OF ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY, ARABIAN GULF BRANCH, 2017 ANNUAL MEETING, "Environmental Quality in the GCC: Addressing the Challenges", 21-22 March 2017, **Qatar University, Doha, Qatar.**
Title: "Synthesis and characterization of a novel metal organic-inorganic hybrid framework material for Na-ion batteries"
- 26) The 8th Materials Science and Engineering Symposium, 16th March 2017, a joint symposium between QU & TAMU at Qatar, Hamad bin Khalifa University, Education City, **Doha, Qatar.**
Title: TitaniumOxynitrideNanotubeArrays sensitizedwithAg Nanoparticles: Solar Water Splitting.
Title: "Visible light photocatalytic degradation of phenol using TiO₂/g-C₃N₄ nanocomposite in an advanced oxidation process"
- 27) The International Battery Association (IBA) 2017 Meeting, 5-10th March 2017, **Nara, Japan**, Nara Kasugano International Forum (IRAKA).
Title: "Novel Layered MOPOF Cathodes for Li- and Na-Ion Batteries"
- 28) The International Conference on Water, Energy and Environment (ICWEE 2017), February 28 – March 2, 2017, the American University of Sharjah, **Sharjah, UAE,**
Title: "Titanium Oxynitride Nanotube Arrays sensitized with Ag Nanoparticles: Solar Water Splitting"
- 29) The International Workshop on Advanced Materials (IWAM2017), **Ras Al Khaimah, UAE**, 19-21st Feb. 2017,
Title: Facile microwave synthesis of porous CuO catalysts for CO oxidation,
Title: Tailoring the CO oxidation performance of microwave prepared Ceria-nanoparticle through the simultaneous doping with transition and rare earth metals
Title: The combined effect on transition metal and rare earth metal doping of CeO₂ under microwave conditions towards enhancement of CO oxidation reaction,

Title: Preparation and characterization of CeO₂-based binary oxides with divalent and trivalent transition metal ions by microwave process for CO-Prox oxidation,

- 30) The **2016** MRS Fall Meeting, 27th November - 2nd December 2016, the Hynes Convention Center and Sheraton Boston Hotel, **Boston, Massachusetts, USA**,
Title: On the Nature of Defect States in Tungstate Nanoflake Arrays as Promising Photoanodes for Photoelectrochemical Water Splitting,
- 31) The World Congress Undergraduate Research 2016; 13-15th Nov. 2016; New Research Complex, Qatar University, **Doha, Qatar**,
Title: Fabrication and CdS Modification of Ti Oxynitride Nanotube Array Photoelectrodes
Title: Preparation & Characterization of Silver Ad-atoms Modified Platinum Nanostructures
Title: Fabrication and CdS modification of TiO₂ nanotube array photoelectrodes
- 32) The 252nd American Chemical Society National Meeting (ACS) & Exposition, (chemistry of the people, by the people for the people), **Philadelphia, PA, USA**, August 21st -25th 2016. Poster Presentation: (The Influence of CuO modification on the defect structure of TiO₂ nanotubes used for CO oxidation).
- 33) Qatar-UK Research Networking Program, Sustainable Materials and Materials for sustainability, Poster Presentation, 8-10th May 2016, New Research Complex, Qatar University, **Doha, Qatar**, Poster Presentations:
Title: Synthesis of Pyrrolobisthiazole-based Homo-Polymers
Title: Preparation & Characterization of silver Ad-atoms Modified Platinum Nanostructures
Title: the effect of CuO on the vacancies of TiO₂ nanotubes used for CO Oxidation
- 34) Qatar University Annual Research Forum 2016, "Academia & Industry Collaboration, a pathway to innovation and entrepreneurship", 3rd May 2016, New Research Complex, Qatar University, **Doha, Qatar**,
Title: Fabrication and CdS Modification of TiO₂ Nanotube Array Photoelectrodes
- 35) The 5th TAMUQ Research Showcase, title: Synthesis of Soluble Chalcogenophene-Vinylene Copolymers, 12th April 2016, St. Regis Hotel, **Doha, Qatar**, (Third place)
- 36) The Annual Research Conference [ARC 2016], organized by QF, Qatar National Convention Center, "Investing in Research and Innovating for Society, 22-23rd March 2016, **Doha, Qatar**,
Title: *Low-temperature CO oxidation over CuO-TiO₂ Nanocatalysts.*
Title: *Synthesis and Characterization of Soluble Thiophene-, Selenophene- and Tellurophene -Vinylene Copolymers*
- 37) The 251st American Chemical Society (ACS) National Meeting and Exposition, "Computers in Chemistry", **San Diego, CA, USA**, 13-17th March 2016,
Title: Fused Pyrrolo[3,2-d:4,5-d']bisthiazole-based n-type Copolymers
- 38) The seventh Materials Science and Engineering Symposium, **10th March 2016**, the New Research Complex, **Qatar University (3 poster presentations)**.
Title: Microwave synthesized hybrid organic-inorganic open frameworks as cathode materials for Li- and Na- ion batteries
Title: *Low-temperature CO oxidation over CuO-TiO₂ Nanocatalysts.*
Title: *Synthesis of Soluble Chalcogenophene-Vinylene Copolymers*
- 39) The International Workshop on Advanced Materials (IWAM2015), **Ras Al Khaimah, UAE**, 21-23rd Feb. 2016,
Title: "Low-temperature CO oxidation over CuO-TiO₂ Nanocatalysts"

- 40) Qatar University Annual Research Forum 2015, Qatar University, **Doha, Qatar** 4th May 2015,
Title: "*Synthesis and characterization of Perylene bisimide derivatives for organic photovoltaics*".
Title: "*Ti-W & Ti-Sr mixed oxide nanotubes arrays for solar energy conversion*".
- 41) The Annual Research Conference [ARC 2014], organized by QF, Qatar National Convention Center, "Toward world-class research and innovation, 18-19th Nov. 2014, **Doha, Qatar**,
Title: "*Optimization of the electronic and optical properties of TiO₂ for clean energy production*"
- 42) The Annual Research Conference [ARC 2014], organized by QF, Qatar National Convention Center, "Toward world-class research and innovation, 18-19th Nov. 2014, **Doha, Qatar**,
Title: "Conjugated small molecules and polymers for use in next generation organic photovoltaic solar cells"
- 43) ADLQ 2nd Junior Symposium, Anti-Doping Lab Qatar, 27th October 2014, **Doha, Qatar, [UREP project]**
- 44) Organic Photonics & Electronics, Faraday Discussions 174, organized by Royal Society of Chemistry, **Glasgow, UK**, 8-10th Sept. 2014, [UREP project],
Title: "*Synthesis and characterization of soluble poly isobutylene based Perylene biimides for organic solar cells*".
- 45) The 244th American Chemical Society (ACS) National Meeting and Exposition, "Materials for Health & Medicine" **Philadelphia, PA, USA**, 19-23rd Aug. **2012** "Poster Presentation".
- 46) The Second International Conference, (Solar 93), Solar Energy Storage and Applied Photochemistry, **Cairo, Egypt**, 6-11th January 1993.

Conferences and Symposiums Attendance:

- 1) Virtual Seminar: QNRF Research Outcome Seminar (ROS), Advanced Materials & Processing, **29th June 2020, Doha, Qatar**.
- 2) The 22nd Edition of International Conference on Green Chemistry and Technology, **Paris, France, 18-19th Nov. 2019**
- 3) Science for Sustainable Development 2019 Conference (SSD2019): Towards Integrated and Sustainable Resource Management, Research Complex, Qatar University, 4-5th Nov. 2019, **Doha, Qatar**,
- 4) 2019 Research Showcase, 17th April 2019, Texas A&M University at Qatar, Education City, Doha, **Qatar**
- 5) **The EdEx Qatar**, 16 - 17 April 2019, The Westin Doha Hotel, Doha, Qatar
- 6) The 11th Annual QAFCO–Texas A&M University at Qatar, **19th March 2019, Doha, Qatar**, FUNCTIONAL MATERIALS, EDUCATION CITY, DOHA, QATAR,

- 7) The Fourth Edition of NanoWorld Conference organized by The NanoWorld Journal (NWJ), **Paris, France, 4-6th March 2019**,
- 8) The 10th Materials Science and Engineering Symposium [MSES2019]; organized by Texas A&M University at Qatar and CAM, Qatar University, **26TH Feb 2018**, at the Hilton Doha Hotel, **Doha, Qatar**,
- 9) Grad Faculty Day: Enhancing Graduate Research, **7th Jan. 2019**, Research Complex, **Qatar University, Doha, Qatar**
- 10) The 6th Junior Scientists' Symposium, 11th **December 2018**, Anti-Doping Lab. in Qatar [ADL], **Doha, Qatar**
- 11) The Sustainability Summit, organized by Gulf Organization for Research & development [GORD], **23-24th Oct. 2018**, Ritz Carlton Hotel, Doha, Qatar
- 12) The 10th Annual QAFCO–Texas A&M University at Qatar, **15 February 2018, Doha, Qatar**, EMERGING FRONTIERS IN CHEMISTRY AND CHEMICAL ENGINEERING
- 13) The Research Collaboration Symposium, organized by the office of the VP for research and graduate studies, Research Complex, **Qatar University, Doha, Qatar, 27-29th Nov. 2017**.
- 14) The Chemistry Conference: Green and Sustainable Chemistry, the Department of Chemistry, the Sultan Qaboos University, **Muscat, Oman**, November 13-15, **2017**.
- 15) The Joint International Conference “Wild, Medical Plants, Islamic Knowledge and Botanical Preservation in Qatar and the Gulf: An Interdisciplinary Approach”, organized by the Center for Humanities and Social Sciences at Qatar University in conjunction with the Qur’anic Botanic Garden at Qatar Foundation, 18-19th October **2017**, the Research Complex, Qatar University, **Doha, Qatar**. [**Chair for one session**]
- 16) The World Teachers Day, College of North Atlantic, **Doha, Qatar**, October 5, **2017**.
- 17) The EU GCC Clean Energy Technology Network in partnership with the Qatar National Research Fund (QNRF), "Energy Efficiency: A Key Driver For Clean Energy Transition", the 5th floor, the Tornado Tower, **3-4 May 2017, Doha, Qatar**,
- 18) QAFCO TEXAS A&M University at Qatar Conference 2017, water, energy & food nexus, Hamad Bin Khalifa University [HBKU] Students Centre, Education City, Doha, **Qatar**, 12th Jan. **2017**,
- 19) The 5th International Gas Processing Symposium (GPS 2016), Gas Processing: Opportunities and Challenges, **Qatar University, Doha, Qatar, 28-29th November 2016**.
- 20) The 2nd Ethylene Middle East Technology (EMET2016) Conference, Gulf Hotel, **Kingdom of Bahrain, 17th – 18th October 2016**,

- 21) The 7th annual, EXPLORING ICT IN EDUCATION CONFERENCE, College of North Atlantic, **14-16th May 2016, Doha, Qatar,**
- 22) The EU_GCC Workshop, Opportunities and Challenges in Sustainable Energy Research, 29th Feb. – 1st March 2016, QNRF, Tornado Tower, **Doha, Qatar,**
- 23) QAFCO Texas A&M at Qatar Conference 2016, CO2 management and renewable energy, Hamad Bin Khalifa University [HBKU] Students Centre, Education City, Doha, **Qatar, 14th Jan. 2016,**
- 24) The Photonics Middle East Conference (PMEC-2015), Hamad Bin Khalifa University [HBKU] Students Centre, Education City, Doha, Qatar, 13-15th Dec. **2015**
- 25) Women In Science (WIS), **Hamad bin Khalifa University** [HBKU] Student Center, Education City, Doha, Qatar, 28-29th Oct. **2015**
- 26) The 250th American Chemical Society (ACS) National Meeting and Exposition, "Innovation from Discovery to Application" Boston, MA, **USA, 16-20th Aug. 2015**
- 27) QEERI International Computational Workshop on Solar Energy, the Recreation Center, Education City, **Doha, Qatar, 12-14th April 2015**
- 28) QAFCO-Texas A&M at Qatar Conference 2015, "**Sustainable Chemical Processes**", Education City, **Doha, Qatar, 3rd March 2015**
- 29) 3rd ANNUAL WORLD REFINING AND PETROCHEMICAL TECHNOLOGY, SUMMIT 2014, **29-30th October 2014,** Doha Marriott Hotel, **Doha, Qatar**
- 30) Qatar Foundation's Workshop on Computing Infrastructure for Research and Education Network (QFREN), Qatar National Convention Center (QNCC), **1st June 2014, Doha, Qatar.**
- 31) Climate Change Research Impact Workshop, organized by Qatar Energy and Environment Research Institute, Qatar National Convention Centre (QNCC), **28-29th May 2014, Doha, Qatar.**
- 32) The International Symposium on Advances in Chemical Engineering & Sciences, Organized by the Chemical Engineering Dept. & the Gas Processing Center, Qatar University, **5th May 2014, Doha, Qatar**
- 33) 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.
- 34) The PERF Spring Meeting entitled "Oil Company Environmental Sustainability Research Programs", **14-15th April 2014,** the **Qatar Science & Technology Park (QSTP), Doha, Qatar.**
- 35) The Third Texas A&M University at Qatar Research & Industry Partnership Showcase, Qatar National Convention Centre, **Doha, Qatar, 7th April 2014.**
- 36) The 3rd 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, 9-11th March 2014.**

- 37) 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, 18th of February 2014.**
- 38) QAFCO Texas A&M at Qatar, "Nanotechnology & Energy", Education City, **Doha, Qatar, 9th Jan. 2014.**
- 39) "Materials and Chemistry for new Energy Technology" Symposium, organized by the Royal Society of Chemistry, 12th Dec. **2013, Qatar University, Doha, Qatar**
- 40) Aluminum Technology – what's in it for you?, Aluminum Week, Center of Advanced Material [CAM] in Collaboration with Qatalum and Hydro, Qatar University, 11th Dec. **2013, Doha, Qatar**
- 41) The Annual Research Conference [ARC 2013], organized by QF, Qatar National Convention Center, 24-25th Nov. **2013, Doha, Qatar**
- 42) The National Organic Chemistry Symposium, 43rd NOS, organized by the American Chemical Society (ACS), Division of Organic Chemistry, 23-27th June **2013, University of Washington, Seattle, USA**
- 43) "The 6th Exploring ICT in Education", the College of North Atlantic, **Doha, Qatar, 2-4th March 2013.**
- 44) The 10th Natural Gas Conversion Symposium (NGCS 10), "the clean Energy of the Future", **Doha, Qatar, March 2-7th 2013** at Ritz-Carlton Hotel.
- 45) 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, 7th February 2013.**
- 46) The World GTL Congress, Organized by Qatar petroleum, St Regis Hotel, **Doha, Qatar, 13-15th Jan. 2013.**
- 47) The Annual Research Conference [ARC 2012], organized by QF, Qatar National Convention Center, 21-23rd Oct. **2012, Doha, Qatar.**
- 48) The Third Annual Materials Science and Engineering Symposium, organized by Qatar University and Texas A&M University at Qatar, **Doha, Qatar, 28th February 2012,** Hamad bin Khalifa University (Education City).
- 49) The 14th International Union of Pure and Applied Chemistry Conference on Polymers and Organic Chemistry (POC 2012), organized by TAMU at Qatar, **Doha, Qatar, 6-9th Jan. 2012.**
- 50) The first Gulf Chemistry Forum, Towards Green Chemistry, organized by Sultan Qaboos University, **Muscat, Oman, 27-28th Dec. 2011,**
- 51) The 20th World Petroleum Congress, organized by Qatar Petroleum, Qatar National Convention Center, **Doha, Qatar, 4-8th Dec. 2011,**
- 52) Aluminum symposium organized by Material Technology Unit at QU, Qatalum, and HYDRO, **Doha, Qatar, 24th Nov. 2011.**
- 53) Energy security Symposium, organized by the British Council, **Doha, Qatar, 13-15th Nov. 2011.**

- 54) The 18th Conference of the Islamic World Academy of Sciences (IAS), the Islamic world & the west: rebuilding bridges through Science & Technology, **Doha, Qatar**, 22-24th Oct. **2011**.
- 55) The 2nd 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**, 8-12th Oct. **2011**.
- 56) The 42nd National Organic Chemistry Symposium, organized by the American Chemical Society, Division of Organic Chemistry, Princeton University, Princeton, NJ, **USA**, 5-9th June **2011**.
- 57) The 241st national American Chemical Society (ACS) Meeting and Exposition, Anaheim, CA, **USA**, 27-31st March **2011**.
- 58) First United Arab Emirates Conference on Pure and Applied Chemistry (ECPAC11), American University of Sharjah, **UAE**, 1-3rd March **2011**
- 59) The World Renewable Energy Congress XI & Exhibition, Abu Dhabi, **UAE**, 25-30th Sept. **2010**.
- 60) QAFCO-TAMUQ Chemistry Conference 2010, Texas A & M in Qatar, Education City, **Doha, Qatar**, 21st Jan. **2010**.
- 61) QAFCO-TAMUQ Chemistry Conference 2009, Texas A & M in Qatar, Education City, **Doha, Qatar**, 8th Jan. **2009**.
- 62) The 2nd annual Symposium on Chemical Catalysis and its Applications, Department of Chemistry and Earth Sciences, College of Arts & Sciences, Qatar University, **Doha, Qatar** 9th April **2008**.
- 63) Environmental Degradation and Conservation: Challenges and Prospects, Education City Universities at VCUQ Atrium; **Doha, Qatar**, 12th November **2007**
- 64) 1st Symposium on Polymer Sciences, Chemistry & Earth Sciences Dept., College of Arts & Sciences, Qatar University, **Doha, Qatar**, 14th April **2007**.
- 65) Qatar University/WCMC-Q Second Qatar Symposium on Science Teaching and Learning, **Doha, Qatar**, 7th March **2007**.
- 66) 1st Conference in Chemistry, Texas A&M in Qatar, Education City, **Doha, Qatar**, Jan. 10, **2007**
- 67) International Conference on materials research and education, future trends and opportunities, Education City, **Doha, Qatar**, 4-6th April **2005**.
- 68) 2nd Conference in Chemistry and its applications, Chemistry Dept., Faculty of Sciences, Qatar University, **Doha, Qatar**, 6-9th December **2003**.
- 69) **QUEST** Conference, Supreme Council, **Doha, QATAR**. 20-25th January **2002**.
- 70) 1st International Conference on 'Semiconductor Photochemistry', University of Strathclyde, **Glasgow, U.K.**, 23-25th July **2001**.

- 71) 15th International Conference on Chemical Education, (Chemistry and Global Environmental Change), **Cairo, Egypt**, 9-14th August **1998**.
- 72) 1st Conference in Chemistry and its applications, Qatar University, Faculty of Science, Chemistry Dept., **Doha, Qatar**, 7-9th December **1993**.
- 73) Second International Conference, (Solar 93), Solar Energy Storage and Applied Photochemistry, **Cairo, Egypt**, 6-11th January **1993**.

Posters Presentation's Awards:

- 1) **Second Place:** Qatar University Annual Research Forum 2019, The Transformation Within the Industry 4.0 Revolution, **23-24th April 2019**, Research Complex, Qatar University, **Doha, Qatar**
Title: Facile Synthesis of CuO@Binary Metal Oxides for Catalytic Oxidation of Carbon Monoxide" Aya Abdirazaq Ali, Yahia Ahmad, Assem Mohamed, Siham Al-Qaradawi,
- 2) **First Place:** The Youth Forum, "sustainable energy & Reducing the pollution", Qatar University, research complex, Doha, **Qatar, 20th April 2017**,
- 3) **First Place:** Qatar-UK Research Networking Program, Sustainable Materials and Materials for sustainability, Poster Presentation, **8-10th May 2016**, New Research Complex, Qatar University, Doha, Qatar
Poster Title: *Preparation & Characterization of silver Ad-atoms Modified Platinum Nanostructures*
- 4) **First Place:** Qatar University Annual Research Forum 2016, "Academia & Industry Collaboration, a pathway to innovation and entrepreneurship", **3rd May 2016**, New Research Complex, Qatar University, **Doha, Qatar**
Poster Title: *Fabrication and CdS Modification of TiO₂ Nanotube Array Photoelectrodes*
- 5) **Third Place:** The 5th TAMUQ Research Showcase, Poster Presentation, title: Synthesis of Soluble Chalcogenophene-Vinylene Copolymers, **12th April 2016**, St. Regis Hotel, Doha, Qatar,
Poster Title: *Synthesis of Soluble Chalcogenophene-Vinylene Copolymers*

General Conferences and Meetings:

- The International Women's Day, organized by the College of Humanities and Social sciences and Doha International Family Institute (DIFI), HBKU, **8th March 2016, Doha, Qatar**
- The World Innovation Summit for Education (WISE 2015), the Seventh annual Summit, Qatar National Convention Center, **4-5th Nov. 2015, Doha, Qatar**
- Teaching & Learning Forum 2015, organized by Education Development Institute at Qatar Foundation, Qatar National Convention Center, **9th May 2015, Doha, Qatar**
- The World Innovation Summit for Education (WISE 2014), the Sixth annual Summit, Qatar National Convention Center, **4-6th Nov. 2014, Doha, Qatar**.

- The University of Calgary at Qatar Teaching & Learning Conference, “Engaging Ideas & Innovative Practices”, **1st May 2014**, Doha, Qatar.
- The 7th GCC Quality Conference, “The Quality and Environmental Challenges, **30th April 2014**, SHARQ VILLAGE & SPA HOTEL – DOHA, QATAR
- The 4th International Arab Conference on Quality Assurance in Higher Education, IACQA 2014, organized by Association of Arab Universities, **1-3rd April 2014**, Al-Zarqa University, **Jordan**
- “Women in Science” event organized by the British Council, Qatar University, **27th November 2013, Doha, Qatar**
- The World Innovation Summit for Education (WISE 2013), the fifth annual Summit, Qatar National Convention Center, **29-31st 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, **16-17th April 2013, Doha, Qatar**.
- The Third Qatar International Businesswomen Forum, 15-16th Oct. **2012**, in St. Regis Hotel, **Doha, Qatar**.
- The 2nd International Arab Conference on Quality Assurance in Higher Education, IACQA 2012, **4-5th 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, **27th 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 13-14th Dec. **2011, Doha, Qatar**.
- Qatar Foundation 2nd Research Forum, organized by QF, Qatar National Convention Center, 20-22nd Nov. **2011, Doha, Qatar**.
- The third World Innovation Summit for Education, **WISE 2011** conference, Qatar Foundation, 1-3rd November **2011, Doha, Qatar**.
- The first International Arab Conference on Quality Assurance in Higher Education, IACQA 2011, 10-12th May **2011**, Al-Zarqa University, **Jordan**. (**keynote speaker**).
- The first World Innovation Summit for Education, **WISE 2009** conference, Qatar Foundation, 16 – 18th November **2009, Doha, Qatar**.
- Qatar Foundation 1st Research Forum, organized by QF, 3rd March **2009, Doha, Qatar**.
- Symposium on Teaching, Learning and Curriculum Development, Weill Cornell Medical College in Qatar, 11th Feb. **2006, Doha, Qatar**.
- Middle East Studies Association (MESA) conference, 18 – 21st November **2006**- Boston, MA, **USA**.
- The first conference for the Arab Expatriate Scientists, 24-26th April **2006, Doha, Qatar**.

- Arab Women, Past and Present: Participation and Democratization Conference, *Organized by Georgetown University – School of Foreign Service (SFS-Q)*, 3–5th March **2006**, **Doha, Qatar**.
- 7th meeting for GCCs College of Humanities Deans, 11-12th Dec. **2005**, **Doha, Qatar**.
- Chairing Qatar University delegate in "Women as Global Leaders Conference", educating the next generation: 14-16th March **2005**, Zayed University, Dubai, **UAE**.

Participation in Thesis and Oral Examination Committees

1 MSc student, Fadi Kammand, April 2020

Title: Fabrication of Heterostructured TiO₂ Nanorods for Enhanced Solar Water Splitting

SUPERVISION OF under-GRADUATE RESEARCH PROJECTS:

Jan. 2019 – May 2019 – Title of the graduation projects:
-Novel high potential cathode materials for next generation lithium ion batteries (LIBs)
-Alluadite based multicomponent cathode materials for Na-ion batteries
-Facile Synthesis of CuO@Binary Metal Oxides for Catalytic Oxidation of Carbon Monoxide

Sept. 2016 – Jan. 2017 – Title of the graduation project:
Novel Low-cost Cathodes for Li-Ion Batteries

Feb. 2016 – June 2016 – Title of the graduation projects:
1) Synthesis of CdS-Modified TiO₂ Nanostructures and their Photocatalytic Applications
2) Preparation & Characterization of silver ad-atoms modified Nanostructures
I am responsible for the day-to-day supervision of the research Project course. I helped FOUR chemistry major students with the setting-up of the experimental procedures, writing a mini-thesis, producing a poster & delivering an oral presentation.

Feb. 2014 – June 2014 – Title of the graduation project: " Synthesis and Characterization of Novel Perylene diimide copolymers for organic photovoltaic solar cells "
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.

Oct. 2001- June 2002 – Title of the graduation project: "Designing & building a reactor for the treatment of wastewater"
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.

Scientific Research Visits & Post-doc Positions:

- 1) Visit 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 a scientific collaboration with Qatar University "Summer Research Grant From Qatar University".

- 2) Visit the University of Southampton, Southampton, **UK, Feb. 2007**, according to an invitation by Professor Jeremy Kilburn, Head of School of Chemistry to stimulate collaboration with Qatar University.
- 3) Visit 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) A grant from Deutscher Akademischer Austausch Dienst (**DAAD**) (German Academic Exchange Service); **€4000** for 2 months during summer **2003** to conduct research at Institut fuer Technische Chemie, Hannover, **Germany**.
- 5) Summer Research Grant From Qatar University; **\$8000** 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; **\$8000** for 3 months during summer **2000**, to conduct research at Dept. of Pure & Applied Chemistry, University of Strathclyde, Glasgow, **Scotland, UK**.

Special Technical Skills:

- Proficient user of Blackboard 9.1 learning management system,
- Chemistry Software: Chemdraw, & Isis Draw.
- Sigma plot
- A literature search using SciFinder, Scopus, Web of Knowledge, and Web of Science, and Literature database processing in EndNote software
- Designed and maintained a personal and a research homepage,

Professional Certification:

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

Other skills:

1. Ability to work and research under pressure.
2. Ability to derive teams and solve problems that arise.
3. Ability to manage large workloads and deal with workers swiftly and dignity.
4. Ability to communicate effectively with co-workers and workers.

Training & Professional Development Activities:

1-Short and extensive courses:

- Professional Grant Writing Workshop, Organized by Grant Training Center, Temple University, PA, **USA, 9-11th Nov. 2010.**
- Essentials of Medicinal Chemistry and Pharmacology, organized by the American Chemical Society, Philadelphia, PA, **USA, 23-24th 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.**

2-Workshops:

1. "Strategies and Tools to Minimize Cheating during Exams", Center for Excellence in Teaching and Learning, the 11th excellence day "Academic Integrity", **7th Jan. 2020**, College of Pharmacy, Ibn Elbitar building, **Qatar University**, Doha, Qatar.
2. "Introducing Academic Integrity for First Year Students", Center for Excellence in Teaching and Learning, the 11th excellence day "Academic Integrity", **7th Jan. 2020**, College of Pharmacy, Ibn Elbitar building, **Qatar University**, Doha, Qatar.
3. "What went Right and What went Wrong in Managing Student Group Projects?", Center for Excellence in Teaching and Learning, the 11th excellence day "Academic Integrity", **7th Jan. 2020**, College of Pharmacy, Ibn Elbitar building, **Qatar University**, Doha, Qatar.
4. Center for Excellence in Teaching and Learning, "Modern guidelines in higher Education; students centered teaching", **10th Jan. 2019**, College of Medicine, **Qatar University**, Doha, Qatar.
5. Center for Excellence in Teaching and Learning, "students centered teaching", Dr. AbdelNaser Fakhro, 10th Jan. 2019, College of Medicine, **Qatar University**, Doha, Qatar.
6. PBL and its implementation in practice, the 9th OFID day "promoting learner-centered education", 16th Jan. 2018, **Qatar University, Doha, Qatar.**
7. PBL and its implementation in practice, the 9th OFID day "Kazene advanced strategy for promoting the education", 16th Jan. 2018, **Qatar University, Doha, Qatar.**
8. PBL and its implementation in practice, the 9th OFID day "How to flip your classroom", 16th Jan. 2018, **Qatar University, Doha, Qatar.**
9. MAXIMIZE MENTORING POTENTIAL, Qatar University, OFID & Graduate studies section, **Doha, Qatar, 8-9th Feb. 2017,**

10. Lynda.com as a Teaching and Learning Tool, OFID, Qatar University, **Doha, Qatar, 20th Nov. 2016.**
11. Using Kahoots as a Teaching and Learning Tool, OFID, Qatar University, **Doha, Qatar, 20th Nov. 2016.**
12. Wastewater treatment workshop by Geneva services, Doha Intercontinental Hotel, **4th May 2015**, Doha, Qatar.
13. Safety Awareness Week organized by the Department of Chemistry & Earth Sciences, Qatar University, **Doha, Qatar, 23-25th Feb. 2014.**
14. "Building Confident Scientists and Engineers workshop" organized by the British Council, Qatar University, **Doha, Qatar, 27th November 2013.**
15. Quizlet: A fun way to engage students outside the classroom using their Mobile devices", OFID, Qatar University, Doha, Qatar, **12th June 2013**
16. Improving students' interaction in class using Clickers Technology through Mobile/Tablet devices", OFID, Qatar University, Doha, Qatar, **12th June 2013.**
17. Accelerating Your Chemistry Research with Reaxys and Hazmat Navigator: From Optimal Reaction Pathways, Effective Synthesis to Chemical Safety, Elsevier, Anaheim, CA, **USA, 28th March 2011.**
18. Connect Chemistry featuring Cambridge Soft ChemDraw: The Next Generation of Course Management, Online Learning and Electronic Homework, McGraw-Hill Higher Education, Anaheim, CA, **USA, 29th March 2011.**
19. Collaborate through Google Documents, Temple University technology center, Philadelphia, PA, **USA, 13th October 2010.**
20. Beyond Multiple Guess Exams: Making Multiple Choice exams fair, Meaningful, and valid, Temple University Technology Center, Philadelphia, PA, **USA, 28th September 2010.**
21. Understanding and Avoiding Plagiarism, Temple University writing center, Philadelphia, PA, **USA, 17th February 2010.**
22. A workshop for the council of International Schools (CIS) School Directors & their Board Chairpersons, Rydges Plaza Hotel, Doha, **Qatar, 15-17th January 2008**
23. Balanced Scorecard Workshop, QU, Doha, **Qatar, 13-14th November 2007**
24. Strategic Foresight Workshop, QU, Doha, **Qatar, 16-17th July 2007.**
25. Media workshop, QU, Doha, **Qatar, 1-3RD May 2007.**
26. Using Blackboard: Facilitating Online Discussions, Southampton University, **UK, 13th Feb. 2007**
27. Learning and Teaching: Running Useful Small-Group Sessions, Southampton University, **UK, 15th Feb. 2007**

28. Communicating Research: Creating Effective Conference Posters with PowerPoint, Southampton University, **UK, 19th Feb. 2007**
29. PowerPoint: Beyond the Basics, Southampton University, **UK, 21st Feb. 2007**
30. Learning Resources: Creating and Using Digital Images, Southampton University, **UK, 23rd Feb. 2007.**
31. Learning and Teaching: Developing Teaching Skills, Southampton University, **UK, 27th Feb. 2007.**
32. Project Planning - Strategic Planning, **Cairo, Egypt, 29th July 29 – 3rd August 2006** organized by SETTEC.
33. Introduction to project management workshop, Qatar National Project Management, planning council, **Doha, Qatar, 21st to 25th May 2006**
34. Participation in a Practical Demonstration on Using Interactive Board in Teaching organized by Office of Faculty and Instructional Development (OFID), QU, **Doha, Qatar, 1st May 2006.**
35. Leadership training by Harvard team, QU, **Doha, Qatar, 24-25th May 2005**

Languages:

Arabic: mother tongue

English: very Good

German: fair

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- **E-mail:** siham@qu.edu.qa,
- **Gender:** Female
- **Marital Status:** Married
- **Nationality** Qatari

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

2)) Prof. Dr. Detlef Bahnemann, [H-index=92], "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

3)) Prof. Martin Heeney, [H-index=80], 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

4)) Dr. Jang Wook Choi, [H-index=68], Associate Professor, Graduate School of EEWS (Energy, Environment, Water, Sustainability), Seoul National University (SNU), Republic of Korea, 305-701, E-mail: jangwook.choi@gmail.com

5)) Prof. Soosina M. Haile, [H-index=58], Walter P. Murphy Professor of Materials Science and Engineering, Northwestern University, 2220 Campus Drive, Cook Hall, Evanston, IL 60208-3109, USA, Cell phone: 6263727311, E-mail: sossina.haile@northwestern.edu

6)) Valentin Valtchev, [H-index=51], Laboratory of Catalysis and Spectroscopy, Directeur de Recherche, Caen, France, valentin.valtchev@ensicaen.fr

7)) Prof. Samy El-Shall, [H-index=51], Department of Chemistry Chair, College of Humanities & Sciences, Chemical Physics, Materials /Nanoscience, Virginia Commonwealth University (VCU), Physical Oliver Hall 3041, USA, phone: (804) 828-2753, e-mail; mselshal@vcu.edu

8)) Prof. M. MAAZA, [H-index=52], 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@tllabs.ac.za

9)) Prof. Ali Coskun, [H-index=48]
Li-ion Batteries & Polymeric Binders for Silicon Anodes, Hydrogen Storage, CO₂ Capture, Porous Organic Polymers, and Metal-Organic Frameworks
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Email: ali.coskun@unifr.ch

10)) Prof. Omar A. El Seoud, [H-index=43]
Professor of Organic Chemistry- University of São Paulo, Brazil
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11)) Prof. Ashraful Islam [H-index=42]
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