

Hisham. Qrareya

Citizenship : Palestinian ▪ Date of birth : 21 July 1975

Marital status: Married

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Contact

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Work Address

P.O. Box 240, Faculty of Sciences

Arab American University- Jenin (AAUJ) –Palestine. hisham.qarareyah@aauj.edu



Key Skills

Familiar with some instruments and computer programs including:

NMR
FT-IR
GC

UV lamps
Lamp Rayonet
UV-Visible
Chem. Draw

Rotary Evaporators
Chromatography
Computational Chemistry
DFT

Extraction
Photocatalyst
Synthesis

Education

Nov. 2011-Nov,2014 PhD in Organic chemistry, Pavia University- Italy

Oct.2006- Jun,2009 Master in Organic Chemistry. An-Najah National University, Nablus, Palestine.

Oct. 1993 – Jun,1997 Bachelor in Chemistry (June 1997) Bir-Zeit University, (BZU), Palestine.

Work Experience

Assistant Prof for Organic Chemistry Arab American University- Palestine (AAUJ) Feb, 2015-Recent

Instructor Of chemistry– Arab American University- Palestine Feb,2010-Oct.2011

Teaching and research assistant – AAUJ- Palestine Sept,2008 - Jan, 2010

Lab Technician at AAUJ Sept 2003-Aug,2008

Teaching Chemistry, physics, general Sciences & mathematics at Public High School At ministry of education Ramallah and Jenin Directorates P.N.A for mid and high levels. 1998 to 2003

COURSES TAUGHT: UNDER GRADUATE

General chemistry course for dentistry students (10031101)
Practical general chemistry for dentistry students (10031105).
Chemistry course for medical students (10031161).
Chemistry course for medical sciences (10031162).
Practical chemistry for medical sciences.(10031165)
Organic chemistry course for medical sciences and dentistry students (10031231).
Practical Organic chemistry for medical sciences and dentistry students (10031232).
Organic Chemistry I for chemistry major students (10031233)
Practical Organic chemistry for chemistry major students (10031235)
Organic Chemistry II for chemistry major students (10031234).
Practical Organic chemistry for chemistry major students (10031236)
Advanced Organic Chemistry for chemistry major students (10031491)
Undergraduate seminar supervisor (10031499).

Scholarships and awards:

- 1) Nominated for the IUPAC Prize by the EPA (European Photochemical Association) for the best PhD thesis in Jan, 2015
- 2) PhD scholarship from Pavia University / Italy to complete my Higher studies an International competition scholarship funded by the Italian Government (2011-2014).Italian Ministry of Foreign Affairs (E-PLUS project, Enhancement of the Palestinian University System).

Publications:

- 1) Hisham Qrareya, Davide Ravelli, Maurizio Fagnoni, and Angelo Albini. "Decatungstate-photocatalyzed Si-H/C-H activation in silyl Hydrides: Hydrosilylation of Electron-poor Alkenes" *ChemCatChem*, **2015**,7, 3350-3357.DOI: [10.1002/cctc.201500562](https://doi.org/10.1002/cctc.201500562).
- 2) Hisham Qrareya, Stefano Protti, and Maurizio Fagnoni. "Aryl imidazylates and aryl sulfates. Novel electrophiles in metal-free ArSN1 reactions" *JOC*, **2014**, DOI: 10.1021/jo502172c.
- 3) Hisham Qrareya, Davide Ravelli, Maurizio Fagnoni, and Angelo Albini. Decatungstate photo catalyzed benzylation of alkenes by alkyl aromatics. *Adv. Synth. Catal.* **2013**, 355, 2891-2899.
- 4) Hisham Qrareya, Carlotta Raviola, Stefano Protti, Maurizio Fagnoni, and Angelo Albini. Transition-Metal-Free Arylations via Photogenerated Triplet 4-Alkyl and 4-Trimethylsilylphenyl Cations. *J. Org. Chem.* **2013**, 78, 6016-6024.
- 5) Hisham Qrareya Waheed AL-Jondi, H.Othman, "Using Recyclable Polymeric Pd (II) Catalysts in Hydroxylation and Methoxylation of cyclic Ketones". The manuscripts Is now in processing.

Conference Presentations:

- 1) The 8th Palestinian International Chemistry Conference (PICC 2015) "Chemical Sciences towards Knowledge Based Economy" 21-22th April 2015 An,Najah National University, Nablus. Palestine, (*Generation of Silyl radicals via Photo catalyzed Si-H bond activation*)
- 2) 6th EuCheMS Organic Division Young Investigators Workshop. 28-30th August 2014, Palm Beach Hotel, Larnaca, Cyprus. (*Short lived aryl cations. Photochemical generation and application in metal-free ArSNI reactions*)
- 3) The 6th international conference on green and sustainable chemistry (GSC-6), 4-7th Aug.2013.Nottingham, UK. (*Photo catalysis. A Green Synthetic Tool*).
- 4) XXIV IUPAC Photochemistry Conference 15- 20th. Jul. 2012, Coimbra. Portugal, (*Close to the Edge. Photochemical Generation of Triplet Aryl Cations from Chloroalkylbenzenes and Weakly Electron-Poor Aryl chlorides*).

Conference Attendance and posters:

1. Conference on Organic Radicals and Annual Mc Meeting Cost Action 1201. Prague, June 29th- Jul 4th, 2014 contribution with a poster. (*Generation of silyl radicals via photo catalyzed Si-H bond activation*)
2. Italian photochemistry Meeting 2013. Riferredo (Potenza), Nov.28th- Dec.1st - 2013. (*Close to the edge. Photochemical generation of triplet phenyl cations from Chloroalkyl benzenes and weakly electron-poor aryl halides*).
3. Italian Photochemistry Meeting 11-12th Oct. 2012, Bologna University. Bologna. Italy, (*Photochemical generation of triplet aryl cations from un activated aryl chlorides for synthetic purposes*).
4. Italian Photochemistry Meeting 11-12th Oct. 2012, Bologna University. Bologna. Italy, (*Photochemical generation of triplet aryl cations from un activated aryl chlorides for synthetic purposes*).
5. International summer school, about catalysis. 22- 29th. Jun. 2012, Pavia University. Italy, (*Benzylation of electron poor olefins through photocatalytic activation of benzylic hydrogen*).
6. XXVIII Edizione della Giornata di Studio "Nuovi Orientamenti Nella Sintesi Organica" presso l'Università degli Studi di Milano, 2nd December -2013.
7. Le Giornate di Chimica Organica a Pavia. Pavia, 3rd October 2013
8. Magical Power of Transition Metals in Catalyzing Cross-Coupling Chemical Reactions. Pavia, 11th July 2013.
9. The symposium "The Photochemistry of the Future-100 Years Later" 13th Oct. 2012, Bologna, Italy.

Research Interests

- Photosynthesis of intermediates of (Metal free) mediated by Solar light
- Photocalaysis reactions and new photocatalysts from Tungsten and Rhenium metals

- Pd catalysts from Natural extracts sources (curcumin and curcuminoids).
- Degradation of solid and organic wastes using solar light photodegradations.

Activities

1. Supervisor for the local election (2006)
2. Monitor For the student council at AAUJ (2008,2009)
3. Youth sport Club spokesman in our town (2004- 2007)
4. Vice president for the local Social Committee (2006-2010)
5. Participant in the evaluation of student research's at the Palestine Science and Technology Fair (PSTF) for **Intel ISEF** that held in the Ministry of Higher Education.2017

BOOKS:

- 1) Lab (Organic Chemistry II Lab manual for Major students)
Co-authored by Dr. Abdallah Walwil,/ AAUJ. Jenin/ Palestine
- 2) Pre- Chemistry (Basics chemistry book) for medical students in preparation

PROFESSIONAL MEMBERSHIPS:

1. Member of the European Photochemical Association (EPA).
2. Member of the Palestinian Chemical Society

COMMITTEES:

- 1) University Council member (2017-2018).
- 2) Faculty Council, member (2017-2018).
- 3) Faculty Council member (2015-2016).

Languages

Arabic (native)
English (excellent)
Italian (satisfactory)

References

1. Prof. Angelo Albini, Photo green lab Organic Chemistry Department Pavia University – Italy. Fax: (+39) 0382-987323, E-mail: angelo.albini@unipv.it
2. Prof. Maurizio Fagnoni, Photo green lab Organic Chemistry Department Pavia University-Italy. E-mail: Maurizio.Fagnoni@unipv.it.
3. Prof. Othman .Hamed, Chemistry Department, An.Najah National University-Nablus- Palestine. E-mail: O.Hamed.@najah.edu.
4. Prof. Adli. Saleh. Faculty of sciences (University Former President). Arab American University-Jenin- Palestine. E-mail : adli.saleh@aauj.edu

