

Assoc. Prof. Yusif Abdullayev

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EDUCATION AND TRAINING

B.A., Chemistry & Biology, Ganja State University, Ganja/Azerbaijan (2001)

M.S, Organic Chemistry, Ganja State University, Ganja/Azerbaijan (2003)

Ph.D., Petroleum Chemistry and Material Science, Institute of Petrochemical Processes, National Academy of Science, Baku/Azerbaijan (2008)

Postdoctoral Researcher:

Middle East Technical University, Faculty of Art and Sciences, Department of Chemistry, Ankara/Turkey (2011-2012)

Emory University, Cherry L. Emerson Center for Scientific Computation, Atlanta, Georgia/USA (2013)

University at Buffalo The State University of New York, The College of Arts and Sciences, Department of Chemistry, Buffalo, NY/USA (2015-2016)

SPECIALIZATION

1. Computational Studies on ionic liquids: Understanding boundaries between catalytic and solvation effects of ionic liquids in organic synthesis.
2. Electrochemical CO₂ reduction based on transition metal catalysts
3. Organic synthesis

APPOINTMENTS

Chair of Chemical Engineering Department, Qafqaz University (2009-present),
Chemistry Olympiad Coordinator, Ministry of Education, Cag Educational Company (2006-2009)
Principal Researcher, Institute of Petrochemical Processes (2008-present, part time)

SYNERGETIC ACTIVITIES

Project manager of BP Azerbaijan and Qafqaz University collaboration on establishing Chemical Engineering B.A. Program. Founding member of Chemical Engineering Department at Qafqaz University (2009)

Member of American Chemical Society, (2013-2015)

General Chair of the 1st International Chemistry and Chemical Engineering Conference held in Qafqaz University, Baku, Azerbaijan

April 17-21, 2013 Scientific Committee member of 6th International Junior Science Olympiad held in Baku, Azerbaijan. (December 2-11, 2009)

Scientific committee member of International Environmental Project Olympiad

AWARDS AND SCHOLARSHIP

Excellent GPA grades in B.A. and M.S. programs

TUBITAK (Scientific and Technological Research Council of Turkey). 2216- Research fellowships for foreign citizens (2011/2012).

Fulbright Visiting Scholar Grant (J. William Fulbright Foreign Scholarship) (2015/2016)

COURSES TAUGHT

Undergrad Courses:

Organic Chemistry (I, II)
Analytical and Instrumental Chemistry
Physical Chemistry
Chemical Reaction Engineering

Graduate Courses:

Spectrometry
Advanced Electrochemistry
Stereochemistry and Reaction Mechanisms

LIST OF PUBLICATIONS

1. **Y. Abdullayev**, V. Abbasov, L. C. Ducati, A. Talybov, and J. Autschbach, Ionic Liquid Solvation versus Catalysis: Computational Insight from a Multisubstituted Imidazole Synthesis in [Et₂NH₂][HSO₄], *ChemistryOpen* **2016**, 5, 460-469/DOI: 10.1002/open.201600066
2. S. K. Mohamed, J. Simpson, A. A. Marzouk, A. H. Talybov, A. A. Abdelhamid, **Y. A. Abdullayev** and V. M. Abbasov, Multicomponent green synthesis, spectroscopic and structural investigation of multi-substituted imidazoles. Part 1, *Z. Naturforsch., B Chem. Sci.* **2015**, 70, 809./DOI 10.1515/znb-2015-0067
3. N. Menges, O. Sari, **Y. Abdullayev**, S. S. Erdem and M. Balci, Design and Synthesis of Pyrrolotriazepine Derivatives: An Experimental and Computational Study, *J. Org. Chem.* **2013**, 78, 5184-5195./ DOI: 10.1021/jo4001228
4. *Avtandil Talybov, Eldar Mamedbeyli, Vaqif Abbasov, Yusif Abdullayev, Konstantin Kochetkov*, Synthesis of Substituted N-Alkylamines in Aqueous Media, *Green and Sustainable Chemistry in Vol3, No1*, p. 31-35, 2013
5. *Abbasov, B. M.; Abdullaev, Y. A.; Alieva, L. I.; Talybov, A. G*, Study of anticorrosive biocidal properties of products of alkylation of several amines by haloalkans./ *Praktika Protivokorroziionnoi Zashchity* Issue: 1, 2008
6. *A.H. Talibov, Y.A. Abdullayev*, Alkylation of amines with 1,3-dibromopropane, epichlorhydrine and alkyl bromides in aqueous medium/ *Processes of Petrochemistry and Oil Refining*, 2007, №5(32), Baku, Azerbaijan, p. 33-37
7. *Y.A. Abdullayev, A.M.Samadov, L.I. Aliyeva, F.C. Isayeva, J.J. Musayev* Obtaining of polyalkylammonium salts of alkylhalides and study of their bactericidal properties / *Processes of Petrochemistry and Oil Refining*, 2006, №2(25), Baku, Azerbaijan, p.7-9
8. A.H. Talibov, **Y.A. Abdullayev**, T.E. Mamedov, N.G. Shikhaliyev Alkylation of amines with alkylbromide / *Processes of Petrochemistry and Oil Refining*, 2006, №3(26), Baku, Azerbaijan, p. 60-63

CONFERENCES

1. **Yusif Abdullayev**, “Computational insight to Bronsted ionic liquid catalyzed multisubstituted imidazole synthesis. IX International Mammadaliyev Conference”, 3-5th October, 2016, Baku, Azerbaijan. (Keynote report)
2. Jim Simpson, Shaaban K. Mohamed, A. A. Marzouk, A. H. Talybove, A. A. Abdelhamid, **Y. A. Abdullayev** and V. M. Abbasov, “Green synthesis of multi-substituted imidazoles” ,15th Tetrahedron Symposium [Challenges in Bioorganic and Organic Medicinal Chemistry, 24 - 27th June, 2014, London, UK]