CURRICULUM VITAE

October 2018

Contact Information

Name: Ali Amoozadeh

Address: Faculty of Chemistry, Semnan University, Semnan, Zip Code 35195-363, Iran.

Phone: 0098 - 23- 31533193

Fax: 0098 - 23- 33654110,

Email: aamozadeh@semnan.ac.ir

Personal Information

Date of Birth: 23 Jan. 1966

Place of Birth: Semnan

Citizenship: Iran

Present Status:

Full Professor in Organic Chemistry

Education:

Ph.D (Organic Chemistry): Montreal University, Montreal, Canada, 1995-1999.

Title: Photochemical rearrangement of 2-phenylthiocyclohexanols. New access to deoxyazasugars and their derivatives.

M.Sc. (Organic Chemistry): Shahid Beheshti University, Tehran, Iran, 1988-1991.

B. Sc. (Teaching Chemistry): Ferdowsi university of Mashhad, Mashhad, Iran, 1983-1987.

Teaching Experience (from 1989 to now):

For Undergraduate:

1. General Chemistry I and II
2 General Chemistry Lab. I and II
3. Organic Chemistry I & II & III
4. Organic Chemistry Lab. I & II & III
5. Separation and Identification of Organic Compounds
6. Biochemistry
7. Biochemistry Lab.
8. Inorganic Chemistry I
9. Inoganic Chemistry Lab. II
10. Spectroscopy of Organic Compounds
11. All General and Organic Chemistry Laboratories at Montreal University

For Graduate:

1. Advanced Organic Chemistry
2. Organic Synthesis
3. Asymetric Organic Synthesis
4. Special Topics in Organic Chemistry

Research Interests:

1. Design and Synthesis of New Nano Heterogeneous Catalysts and Photocatalyst

2. Organic Synthesis

3. Corrosion Inhibitors

4. Emulsifiers & Demulsifiers

5. Chromatography

List of Some Selected Publication:

Articles in Journals

[1] A. Amoozadeh, H. Mazdarani, H. Beydaghi, E. Tabrizian, M. Javanbakht, Novel nanocomposite membrane based on Fe_3O_4@TDI@TiO_2–SO_3H: Hydration, mechanical and DMFC study, New Journal of Chemistry, 42 (2018) 16855-16862.

[2] M. Bitaraf, A. Amoozadeh, S. Otokesh, Nano-WO_3-Supported Sulfonic Acid: A Versatile Catalyst for the One-Pot Synthesis of 14-Aryl-14H-dibenzo[a,j]xanthene Derivatives Under Solvent-Free Conditions, National Academy of Sciences, (2018).

[3] S. Hosseini, A. Amoozadeh, Nano-TiO_2 -P25-SO_3 H as a new and robust photo-catalyst: The acceleration effect of selective oxidation of aromatic alcohols to aldehydes under blue LED irradiation, Journal of Photochemistry and Photobiology A: Chemistry, 364 (2018) 516-523.

[4] F. Esfahanian, A. Amoozadeh, M. Bitaraf, TiO_2@TDI@DMAPA: An amine-modified nanoparticle, tailored to act as an economic basic heterogeneous nanocatalyst, Journal of Nanoparticle Research, 20 (2018).

[5] A. Madhi, B. Shirkavand Hadavand, A. Amoozadeh, UV-curable urethane acrylate zirconium oxide nanocomposites: Synthesis, study on viscoelastic properties and thermal behavior, Journal of Composite Materials, 52 (2018) 2973-2982.

[6] H. Saeidian, S. Esmaeil Hosseini, A. Amoozadeh, M. Taghi Naseri, M. Babri, Investigation of sarin(Se) reactivity against human plasma proteins using liquid chromatography-tandem mass spectrometry, Journal of Mass Spectrometry 53 (2017) 138-145.

[7] A. Amoozadeh, S. F. Hosseininya, S. Rahmani, Nano titania-supported sulfonic acid (n-TSA) as an efficient, inexpensive, and reusable catalyst for one-pot synthesis of 1, 8-dioxo-octahydroxanthene and tetrahydrobenzo[b]pyran derivatives, Research on Chemical Intermediates, 44 (2017) 991-1011.

[8] A. Madhi, B. Shirkavand Hadavand, A. Amoozadeh, Thermal conductivity and viscoelastic properties of UV-curable urethane acrylate reinforced with modified Al_2O_3 nanoparticles, Prog. Color Colorants Coat., 10 (2017), 193-204.

[9] H. Beydaghi, M. Javanbakht, P. Salarizadeh, A. Bagheri, A. Amoozadeh, Novel proton exchange membrane nanocomposites based on sulfonated tungsten trioxide for application in direct methanol fuel cells, Polymer, 119 (2017) 253-262.

[10] T. Shamsi, A. Amoozadeh, E. Tabrizian, S. M. Sajjadi, A new zwitterionic nano-titania supported Keggin phosphotungstic heteropolyacid: An efficient and recyclable heterogeneous nanocatalyst for the synthesis of 2,4,5-triaryl substituted imidazoles, Reaction Kinetics, Mechanisms and Catalysis, 121 (2017) 505-522.

[11] M. Mohammadipour, A. Amoozadeh, The synthesis of polyhydroacridines by covalent 5-sulfobenzoic acid-functionalized graphene oxide as a novel, green, efficient, and heterogeneous catalyst, Monatshefte für Chemie - Chemical Monthly, 148 (2017) 1075-1084.

[12] M. Ghasemi, E. Kowsari, A. Amoozadeh, Chitosan/poly(Amide-Imide) blend films: Studies on thermal and mechanical stability, morphology, and biodegradability, Iranian Journal of Chemistry & Chemical Engineering-International English Edition, 36 (2017) 55-70.

[13] E. Tabrizian, A. Amoozadeh, Sulfamic Acid-functionalized Nano-titanium dioxide as a Novel and Highly Efficient Heterogeneous Nanocatalyst for One-pot and Solvent-free Synthesis of Hexahydroquinolines, Journal of the Chinese Chemical Society, 64 (2017) 331-336.

[14] M. Ghasemi, A. Amoozadeh, E. Kowsari, Chitosan-functionalized nano-titanium dioxide: A novel and highly efficient nanocatalyst for the synthesis of 2,4,5-trisubstituted imidazoles under solvent-free conditions, Reaction Kinetics, Mechanisms and Catalysis, 120 (2016) 605-617.

[15] M. Ameri, A. Asghari, A. Amoozadeh, M. Bakherad, A new approach for one-pot, green synthesis of new polycyclic indoles in aqueous solution, Chinese Chemical Letters, 28 (2016) 1031-1034.

[16] T. Shamsi, A. Amoozadeh, S. M. Sajjadi, E. Tabrizian, Novel type of SO_3H-functionalized nano-titanium dioxide as a highly efficient and recyclable heterogeneous nanocatalyst for the synthesis of tetrahydrobenzo[b]pyrans, Applied Organometallic Chemistry, 31 (2016).

[17] S. E. Hosseini, H. Saeidian, A. Amozadeh, M. Taghi Naseri, M. Babri, Fragmentation pathways and structural characterization of organophosphorus compounds related to the Chemical Weapons Convention by electron ionization and electrospray ionization tandem mass spectrometry, Rapid Communications in Mass Spectrometry, 30 (2016) 2585-2593.

[18] H. Saeidian, S. E. Hosseini, A. Amozadeh, M. T. Naseri, M. Babri, EI-MS and ESI–MS/MS study of O,O -dialkyl(diaryl) methylphosphonoselenoates, International Journal of Mass Spectrometry, 409 (2016) 44-52.

[19] E. Tabrizian, A. Amoozadeh, A new type of SO_3H-functionalized magnetic-titania as a robust magnetically-recoverable solid acid nanocatalyst for multi-component reactions, RSC Advances, 6 (2016) 96606-96615.

[20] M. Ameri, A. Asghari, A. Amoozadeh, M. Bakherad, Environmentally Friendly, One-pot, Catalyst-free, and Facile Electrochemical Synthesis of New SupraN- andO-Heterocycles, Chemistry Letters, 45 (2016) 1060-1062.

[21] A. Amoozadeh, E. Tabrizian, M. Salehi, M. Kubicki, S. Rahmani, T. Shamsi, M. Bitaraf, Catalyst-free synthesis of (7E)-7-benzylidene-3,3a,4,5,6,7-hexahydro-2,3-diphenyl-2H-indazole derivatives in PEG-400 as a green and reusable solvent, Journal of Chemical Research, 40 (2016) 535-539.

[22] M. Bitaraf, A. Amoozadeh, S. Otokesh, ChemInform Abstract: A Simple and Efficient One-Pot Synthesis of 1,4-Dihydropyridines Using Nano-WO3-Supported Sulfonic Acid as an Heterogeneous Catalyst under Solvent-Free Conditions, ChemInform, 47 (2016).

[23] E. Tabrizian, A. Amoozadeh, T. Shamsi, A novel class of heterogeneous catalysts based on toluene diisocyanate: The first amine-functionalized nano-titanium dioxide as a mild and highly recyclable solid nanocatalyst for the Biginelli reaction, Reaction Kinetics, Mechanisms and Catalysis, 119 (2016) 245–258.

[24] E. Tabrizian, A. Amoozadeh, A unique approach to magnetization of metal oxides: Nano-Fe3O4@TDI@TiO2 as a highly efficient, magnetically separable and recyclable heterogeneous nanocatalyst, Catalysis Science & Technology, 6 (2016) 6267–6276.

[25] M. Bitaraf, A. Amoozadeh, S. Otokesh, A Simple and Efficient One-pot Synthesis of 1,4-dihydropyridines Using Nano-WO_3- supported Sulfonic Acid as an Heterogeneous Catalyst under Solvent-free Conditions, Journal of the Chinese Chemical Society, 63 (2016) 336-344.

[26] A. Amoozadeh, M. Malmir, N. Koukabi, S. Otokesh, ChemInform Abstract: Microwave-Assisted, Solvent Free Preparation of 1,5-Benzodiazepine Derivatives Using Nanomagnetic-Supported Sulfonic Acid as a Recyclable and Heterogeneous Catalyst, ChemInform, 47 (2016).

[27] E. Tabrizian, A. Amoozadeh, S. Rahmani, Sulfamic acid-functionalized nano-titanium dioxide as an efficient, mild and highly recyclable solid acid nanocatalyst for chemoselective oxidation of sulfides and thiols, RSC Advances, 6 (2016) 21854-21864.

[28] N. Koukabi, S. Otokesh, E. Kolvari, A. Amoozadeh, Convenient and rapid diazotization and diazo coupling reaction via aryl diazonium nanomagnetic sulfate under solvent-free conditions at room temperature, Dyes and pigments, 124 (2016) 12-17.

[29] A. Amoozadeh, S. Rahmani, M. Hafezi, E. Tabrizian, E. Imanifar, F. Zolfagharkhani, A convenient, simple and one-pot synthesis of dibenzoxanthenes and tetrahydrobenzoxanthenes by nanotitania-supported sulfonic acid as an efficient and highly reusable nanocatalyst, Reaction Kinetics, Mechanisms and Catalysis, 117 (2016) 365-377.

[30] A. Amoozadeh, S. Rahmani, M. Bitaraf, F.B. Abadi, E. Tabrizian, Nano-zirconia as an excellent nano support for immobilization of sulfonic acid: A new, efficient and highly recyclable heterogeneous solid acid nanocatalyst for multicomponent reactions, New Journal of Chemistry, 40 (2016) 770-780.

[31] E. Tabrizian, A. Amoozadeh, S. Rahmani, M. Salehi, M. Kubicki, Synthesis, characterization, and crystal structures of α, α′-bis(substituted-benzylidene)cycloalkanone derivatives by nano-TiO<inf>2</inf>/HOAc, Research on Chemical Intermediates, (2015).

[32] E. Tabrizian, A. Amoozadeh, S. Rahmani, E. Imanifar, S. Azhari, M. Malmir, One-pot, solvent-free and efficient synthesis of 2,4,6-triarylpyridines catalyzed by

nano-titania-supported sulfonic acid as a novel heterogeneous nanocatalyst, Chinese Chemical Letters, (2015).

[33] M. Salehi, A. Amoozadeh, A. Salamatmanesh, M. Kubicki, G. Dutkiewicz, S. Samiee, A. Khaleghian, Synthesis, characterization, crystal structures, computational studies, and antibacterial activities of two new Schiff bases derived from isophthalaldehyde, Journal of Molecular Structure, 1091 (2015) 81-87.

[34] S. Otokesh, N. Koukabi, E. Kolvari, A. Amoozadeh, M. Malmir, S. Azhari, A solvent-free synthesis of polyhydroquinolines via Hantzsch multicomponent condensation catalyzed by nanomagnetic-supported sulfonic acid, South African Journal of Chemistry, 68 (2015) 15-20.

[35] S. Otokesh, E. Kolvari, A. Amoozadeh, N. Koukabi, Magnetic nanoparticle-supported imidazole tribromide: a green, mild, recyclable and metal-free catalyst for the oxidation of sulfides to sulfoxides in the presence of aqueous hydrogen peroxide, RSC Advances, 5 (2015) 53749-53756.

[36] A. Asghari, O. Ghaderi, M. Rajabi, M. Ameri, A. Amoozadeh, Mechanistic and electrochemical investigation of catechol oxidation in the presence of thioacetamide: Application for voltammetric determination of thioacetamide in aqueous media, Progress in Reaction Kinetics and Mechanism, 40 (2015) 95-103.

[37] A. Asghari, M. Ameri, A.A. Ziarati, S. Radmannia, A. Amoozadeh, B. Barfi, L. Boutorabi, Electro-oxidation of paracetamol in the presence of malononitrile: Application for green, efficient, none-catalyst, simple and one-pot electro-synthesis of new paracetamols, Chinese Chemical Letters, 26 (2015) 681-684.

[38] A. Asghari, M. Ameri, B. Baraee, M. Rajabi, M. Bakherad, A. Amoozadeh, Mechanistic investigation of the electrooxidation of catechols in the presence of N-methylbenzylamine at room temperature: Synthesis of new quinone derivatives, Progress in Reaction Kinetics and Mechanism, 40 (2015) 77-85.

[39] A. Amoozadeh, E. Tabrizian, S. Rahmani, Nano titania-supported sulfonic acid catalyzed synthesis of α,α'-bis(substituted-benzylidene)cycloalkanones and of their xanthene derivatives under solvent-free conditions, Comptes Rendus Chimie, 18 (2015) 848-857.

[40] A. Amoozadeh, S. Rahmani, Nano-WO3-supported sulfonic acid: New, efficient and high reusable heterogeneous nano catalyst, Journal of Molecular Catalysis A: Chemical, 396 (2015) 96-107.

[41] A. Amoozadeh, M. Malmir, N. Koukabi, S. Otokesh, Microwave-Assisted, solvent free preparation of 1,5-benzodiazepine derivatives using nanomagnetic-supported sulfonic acid as a recyclable and heterogeneous catalyst, Journal of Chemical Research, 39 (2015) 694-697.

[42] A. Amoozadeh, E. Kolvari, N. Koukabi, S. Otokesh, Nanomagnetic-supported Sulfonic Acid: Simple and Rapid Method for the Synthesis of α,α′-Bis-(substituted-benzylidene) Cycloalkanones, Journal of the Chinese Chemical Society, (2015).

[43] A. Amoozadeh, E. Kolvari, N. Koukabi, S. Otokesh, Nanomagnetic-supported Sulfonic Acid: Simple and Rapid Method for the Synthesis of α,α′-Bis-(substituted-benzylidene) Cycloalkanones, Journal of the Chinese Chemical Society, 62 (2015) 501-505.

[44] A. Amoozadeh, S. Golian, S. Rahmani, TiO2-coated magnetite nanoparticle-supported sulfonic acid as a new, efficient, magnetically separable and reusable heterogeneous solid acid catalyst for multicomponent reactions, RSC Advances, 5 (2015) 45974-45982.

[45] A. Amoozadeh, S. Azhari, E. Kolvari, S. Otokesh, Synthesis of Pyrimidinone and 5-unsubstituted 4, 6-diarylpyrimidine-2(1H)-ones by Using Nano Magnetic Catalyst under Solvent Free Condition, Journal of the Chinese Chemical Society, 62 (2015) 968-973.

[46] A. Amoozadeh, R.A. Azadeh, S. Rahmani, M. Salehi, M. Kubicki, G. Dutkiewicz, Nano-Titania-Supported Sulfonic-Acid-Catalyzed Synthesis of 2-Arylbenzothiazole Derivatives under Solvent Free Conditions, Phosphorus, Sulfur and Silicon and the Related Elements, 190 (2015) 1874-1883.

[47] M. Ameri, A. Asghari, A. Amoozadeh, M. Bakherad, D. Nematollahi, An efficient, simple, non-catalytic electrosynthesis of new polycyclic benzofuran derivatives, Tetrahedron Letters, 56 (2015) 2141-2144.

[48] M. Ameri, A. Asghari, A. Amoozadeh, M. Bakherad, First electroorganic synthesis based on a metal-and amine-free Sonogashira-type coupling reaction with

an ECECECE mechanism, Journal of the Electrochemical Society, 162 (2015) G25-G28.

[49] M. Ameri, A. Amoozadeh, A. Asghari, D. Nematollahi, M. Bakherad, A facile and efficient one-pot electrochemical synthesis of thiazole derivatives in Aqueous Solution, Helvetica Chimica Acta, 98 (2015) 210-223.

[50] S. Rahmani, A. Amoozadeh, E. Kolvari, Nano titania-supported sulfonic acid: An efficient and reusable catalyst for a range of organic reactions under solvent free conditions, Catalysis Communications, 56 (2014) 184-188.

[51] E. Kolvari, A. Amoozadeh, N. Koukabi, S. Otokesh, M. Isari, Aryl diazonium nanomagnetic sulfate and potassium iodide: An iodination process, Tetrahedron Letters, 55 (2014) 3648-3651.

[52] A. Asghari, M. Ameri, A.A. Ziarati, S. Radmannia, A. Amoozadeh, B. Barfi, L. Boutorabi, Electro-oxidation of paracetamol in the presence of malononitrile: Application for green, efficient, none-catalyst, simple and one-pot electro-synthesis of new paracetamols, Chinese Chemical Letters, (2014).

[53] M. Ameri, A. Asghari, A. Amoozadeh, D. Nematollahi, M.A. Chamjangali, L. Boutorabi, Kinetic and mechanistic investigation of electrochemical oxidation of hydroquinones in the absence and presence of 2-acetyl-gamma-butyrolactone, Progress in Reaction Kinetics and Mechanism, 39 (2014) 391-403.

[54] M. Ameri, A. Asghari, A. Amoozadeh, H. Daneshinejad, D. Nematollahi, Electrosynthesis of hydroquinonethioethers using electrochemical oxidation of hydroquinone in the presence of thiouracil derivatives, Chinese Chemical Letters, 25 (2014) 797-801.

[55] M. Ameri, A. Asghari, A. Amoozadeh, M. Bakherad, D. Nematollahi, Green and highly efficient synthesis of new bis-benzofurans via electrochemical methods under ECECCC mechanism, Journal of the Electrochemical Society, 161 (2014) G75-G80.

[56] M. Ameri, A. Asghari, A. Amoozadeh, M. Bakherad, D. Nematollahi, Facile and one-pot, electro-organic synthesis of a new bis-quinone by the ECCE mechanism in green media, Chinese Chemical Letters, 25 (2014) 1607-1610.

[57] G. Dutkiewicz, M. Salehi, A. Amoozadeh, M. Ghasemi, A. Rezaei, M. Kubicki, Synthesis, characterization, and crystal structure of α-glucosimino- pyranose anthranilic acid, Journal of Chemical Crystallography, 43 (2013) 59-64.

[58] A. Amoozadeh, S. Rahmani, F. Nemati, Poly(ethylene)glycol/AlCl3 as a new and efficient system for multicomponent Biginelli-type synthesis of pyrimidinone derivatives, Heterocyclic Communications, 19 (2013) 69-73.

[59] A. Amoozadeh, M. Ahmadzadeh, E. Kolvari, Easy access to coumarin derivatives using alumina sulfuric acid as an efficient and reusable catalyst under solvent-free conditions, Journal of Chemistry, (2013).

[60] M. Salehi, G. Dutkiewicz, A. Rezaei, A. Amoozadeh, S. Rahmani, G.H. Grivani, M. Kubicki, Synthesis, antibacterial studies and crystal structures of tridentate schiff base ligand and it's cobalt(III) complex, Journal of Chemical Crystallography, 42 (2012) 871-878.

[61] F. Nemati, M. Arghan, A. Amoozadeh, Efficient, solvent-free method for the one-pot condensation of-naphthol, Aromatic aldehydes, and cyclic 1,3-dicarbonyl compounds catalyzed by silica sulfuric acid, Synthetic Communications, 42 (2012) 33-39.

[62] F. Nemati, A.S. Fakhaei, A. Amoozadeh, Y.S. Hayeniaz, Highly stereoselective synthesis of β-amino ketones via a mannich reaction catalyzed by cellulose sulfuric acid as a biodegradable, efficient, and recyclable heterogeneous catalyst, Synthetic Communications, 41 (2011) 3695-3702.

[63] F. Nemati, A. Amoozadeh, The role of thiophenol in the proposed mechanism for one pot transformation of 2-phenylthio-3-aminocyclohexanols to dehydropiperidine derivatives, Arabian Journal of Chemistry, (2011).

[64] A. Amoozadeh, S. Rahmani, G. Dutkiewicz, M. Salehi, F. Nemati, M. Kubicki, Novel synthesis and crystal structures of two a, a0-bis-substituted benzylidene cyclohexanones: 2,6-Bis-2-nitro(benzylidene)cyclohexanone and 2,6-Bis-4-methyl(benzylidene)cyclohexanone, Journal of Chemical Crystallography, 41 (2011) 1305-1309.

[65] H. Raissi, E.S. Nadim, M. Yoosefian, F. Farzad, E. Ghiamati, A.R. Nowroozi, M. Fazli, A. Amoozadeh, The effects of substitutions on structure, electron density,

resonance and intramolecular hydrogen bonding strength in 3-mercapto-propenethial, Journal of Molecular Structure: THEOCHEM, 960 (2010) 1-9.

[66] A. Amoozadeh, S. Rahmani, F. Nemati, Poly(ethylene)glycol/AlCl3 as a Green and Reusable System in the Synthesis of α,α′′-bis(substituted-benzylidene) Cycloalkanones, South African Journal of Chemistry, 63 (2010) 72-74.

[67] A. Amoozadeh, F. Nemati, Poly(ethylene) glycol as a green and reusable solvent in the oxidation of sulfides to sulfoxides using NaClO, Phosphorus, Sulfur and Silicon and the Related Elements, 185 (2010) 1381-1385.

[68] A. Amoozadeh, F. Nemati, A clean, mild, and selective oxidation of sulfides to sulfoxides using NaClO/H2SO4 in Aqueous Media, Phosphorus, Sulfur and Silicon and the Related Elements, 184 (2009) 2569-2575.

[69] A. Amoozadeh, F. Nemati, Solid silica-based sulphonic acid as an efficient green catalyst for the selective oxidation of sulphides to sulphoxides using NaCIO in aqueous media, South African Journal of Chemistry, 62 (2009) 44-46.

[70] A. Amoozadeh, H. Zavvar Mousavi, Use of gypsum as a good stationary phase in thin layer chromatography and relation between Rfs and dipole moments of some organic compounds, Asian Journal of Chemistry, 20 (2008) 5873-5877.

[71] D. Gravel, A. Amoozadeh, Y. Wang, Photochemical rearrangement of 2-phenylthio-3-aminocyclohexanols. New access to deoxyazasugars and their derivatives, Tetrahedron Letters, 39 (1998) 8039-8042.

US Patent

[1] H. Beydaghi, M. Javanbakht, P. Salarizadeh, A. Bagheri, A. Amoozadeh, Nanocomposite blend membrane, (2017).

Papers Presented at Conferences and Seminars

More than 70.