

CV

PERSONAL DATA

Name: Ali

Surname: Darehkordi

Date and Place of Birth: 27 May. 1972, Rafsanjan, Iran.

CONTACT ADDRESS

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EDUCATIONS

- ♣. Ph.D. in Organic Chemistry (2007), Shahid Bahonar University of Kerman, Iran.
- ♣. MSc. in Organic Chemistry (1999), Shahid Bahonar University of Kerman, Iran.
- ♣. Diploma in Natural Science (1991), Motahri High School, Rafsanjan, Iran.

PROFESSIONAL EXPERIENCES

- ♣ Professor, Vali-e-Asr University of Rafsanjan, Kerman, Iran. June 2019 - present.
- ♣. Associate Professor, Department of Chemistry, Faculty of Science, Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran, June 2012–2019.
- ♣. Assistant Professor, Department of Chemistry, Faculty of Science, Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran, June 2007–2012.
- ♣. Instructor, Department of Physics Faculty of Science, Vali-e-Asr University of Rafsanjan, Rafsanjan, Iran, June 1999–2002.

Appointments and Experiences

- ♣ Deputy, the Faculty of Science (2007-2009)
- ♣ Director, the Department of Chemistry (2009-2011)
- ♣ Head of the Faculty of Basic Sciences (2011-2015)
- ♣ Head of the Faculty of Basic Sciences (2016-present)

MAJOR AWARDS

- ♣ Excellent Researcher Award of Faculty Science, Vali-e-Asr University of Rafsanjan in Research, Rafsanjan, Iran, 2017.
- ♣ Excellent Researcher Award of Vali-e-Asr University of Rafsanjan in Industrial, Rafsanjan, Iran, 2014.
- ♣ Excellent Researcher Award of Department of Chemistry, Vali-e-Asr University of Rafsanjan in Research, Rafsanjan, Iran, 2015.

RESEARCH INTERESTS

Design, synthesis and biological evaluation of Trifluoromethylated heterocyclic

compounds. Drug modification using trifluoroacetimidoyl chlorides, Organic synthesis and carbohydrate reactions.

PUBLICATIONS

a. Full Papers Published in International Journals:

2019 published papers

50) Talebizadeh, Mahdiyeh, Mohammad Anary-Abbasinejad, and **Ali Darekordi**. "A simple synthesis of trifluoromethylated pyridinium azomethine ylides by three-component reaction between pyridines, phenacyl bromides, and N-aryltrifluoroacetimidoyl chlorides." *Chemistry of Heterocyclic Compounds* 55.3 (2019): 235-23.

49) **Darehkordi, Ali**, and Elham Kazemi. "Iodine/potassium iodide catalyst for the synthesis of trifluoromethylated quinazolines via intramolecular cyclization of 2, 2, 2-trifluoro-N-benzyl-N'-arylacetimidamides." *Molecular diversity* (2019): 1-9.

48) **Darehkordi, Ali**, Mahdiyeh Talebizadeh, and Mohammad Anary-Abbasinejad. "Expedient approach to synthesis of 4-hydroxy-2-(trifluoromethyl) quinolines through an intramolecular cyclization of ethyl 2-cyano-4, 4, 4-trifluoro-3 (arylamino) but-2-enoate derivatives." *Molecular diversity* 23.2 (2019): 307-315.

47) Karimabad, M. N., Mahmoodi, M., Jafarzadeh, **A., Darekordi, A.**, Hajizadeh, M. R. and Hassanshahi, G. "Molecular Targets, Anti-cancer Properties and Potency of Synthetic Indole-3-carbinol Derivatives." *Mini reviews in medicinal chemistry* 19.7 (2019): 540-554.

46) **Darehkordi, Ali**, Maryam Hosseini, and Fariba Rahmani. "Convenient Synthesis of New Boric Acid Catalyzed 1, 2, 4-Triazolopyridinone Derivatives and an Investigation of their Optical Properties." *Journal of Heterocyclic Chemistry* 56.4 (2019): 1306-1311.

2018 published papers

45) Talebizadeh, Mahdiyeh, Mohammad Anary-Abbasinejad, and **Ali Darehkordi**. "A Simple One-pot Three-component Synthesis of Dihydrobenzo [4, 5] imidazo [2, 1-b] thiazol-3-ols by Reaction of Acyl Chlorides, Isocyanides, and 2-Mercaptobenzimidazoles." *Journal of Heterocyclic Chemistry* 55.12 (2018): 2737-2743.

44) Talebizadeh, Mahdiyeh, **Ali Darehkordi**, and Mohammad Anary-Abbasinejada. "A simple and efficient method for the synthesis of 4-tosyloxazoles from tosylmethyl isocyanide with α -ketoimidoyl chlorides." *Organic Chemistry part v* (2018): 194-202.

43) Khanzadeh, M., Dehghanipour, M., **Darehkordi, A.** and Rahmani, F. Wavelength-dependent nonlinear optical properties of 8-(4-methoxyphenyl)-6-oxo-3-p-tolyl-6H-pyrido [1, 2-b][1, 2, 4] triazine-7, 9-dicarbonitrile. *Canadian Journal of Physics* 96.12 (2018): 1288-1294.

42) Rahmani, Fariba, and **Ali Darehkordi**. "Preparation of Trifluoromethylated (Arylaminomethylene) malononitriles Suitable for Synthesis of 4-Amino-2-(trifluoromethyl) quinoline Derivatives by Intramolecular Friedel-Crafts Reaction." *Synthesis* 50.10 (2018): 2124-2130.

- 41) **Darehkordi, A.**, Salehi, V., Rahmani, F. and Karimipour, M. "Boric acid-catalyzed synthesis of fused 1, 2, 4-triazine derivatives: a new class of red fluorescent organic compounds." *Chemistry of Heterocyclic Compounds* 54.5 (2018): 554-558.
- 40) **Darehkordi, Ali**, and Mahin Ramezani. "Ultrasonic-assisted Synthetic Improvement of Fluorinated Five-and Six-membered Triazolotriazine and Triazinophthalazine Heterocycles." *Organic Chemistry Research* 4.1 (2018): 67-72.
- 39) Rahmani, F., **Darehkordi, A.**, Ramezani, M. and Bazmandegan-Shamili, A. "Synthesis and Photophysical Properties of 3-(Trifluoromethyl)-2H-imidazo [5, 1-a] isoquinolinium Chloride Derivatives." *Synlett* 29.03 (2018): 296-300.
- 38) Hosseini, S. M., Baizae, S. M., Naderi, H. R. and **Darehkordi, A.** "Excimer laser assisted very fast exfoliation and reduction of graphite oxide at room temperature under air ambient for Supercapacitors electrode." *Applied Surface Science* 427 (2018): 507-516.
- 37) Sheikhezadei, Z., Heydari, P., Farsinezhad, A., Fatemi, A., Falahati-Pour, S. K., Darakhshan, S. **Darehkordi, A.** and Hassanshahi, G. "A new indole derivative decreased SALL4 gene expression in acute Promyelocytic leukemia cell line (NB4)." *Iranian biomedical journal* 22.2 (2018): 99.
- 36) Poor, M. A., **Darehkordi, A.**, Anary-Abbasinejad, M. and Mohammadi, M. "Gabapentin-base synthesis and theoretical studies of biologically active compounds: N-cyclohexyl-3-oxo-2-(3-oxo-2-azaspiro [4.5] decan-2-yl)-3-arylpropanamides and N-(tert-butyl)-2-(3-oxo-2-azaspiro [4.5] decan-2-yl)-2-arylacetamide derivatives." *Journal of Molecular Structure* 1152 (2018): 44-52.
- 35) **Darehkordi, Ali**, Mahin Ramezani, and Fariba Rahmani. "TiO₂-Nanoparticles Catalyzed Synthesis of New Trifluoromethyl-4, 5-dihydro-1, 2, 4-oxadiazoles and Trifluoromethyl-1, 2, 4-oxadiazoles." *Journal of Heterocyclic Chemistry* 55.7 (2018): 1702-1708.
- 34) Ranjbar-Karimi, R., **Darehkordi, A.**, Bahadornia, F. and Poorfreidoni, A.. "Dipyrido [1, 2-b: 3', 4'-e][1, 2, 4] triazine Scaffolds from Pentafluoropyridine." *Journal of Heterocyclic Chemistry* 55.11 (2018): 2516-2521.
- 33) **Darehkordi, A.**, Ramezani, M., Rahmani, F. and Poor, M. A "Catalyst-Free Synthesis of Benzimidazole and Benzothiazole Derivatives by the Cleavage of the C–C Double Bond of 5-Arylidene-pyrimidine-2, 4, 6-(1H, 3H, 5H)-triones." *Letters in Organic Chemistry* 15.4 (2018): 290-294.
- 32) **Darehkordi, Ali**, Seyed Mahdi Fazli-Zafarani, and Mansoureh Kamali. "Direct Synthesis of Trichloro-thiazolo [3, 2-a] pyrimidine and Thiazolo [2, 3-b] quinazoline Derivatives." *Journal of Heterocyclic Chemistry* 54.4 (2017): 2287-2296.
- 31) **Darehkordi, Ali**, and Mahin Ramezani. "One-pot synthesis of novel (2R, 4S)-N-aryl-4-hydroxy-1-(2, 2, 2-trifluoroacetyl) pyrrolidine-2-carboxamides via TiO_2 -NPs and $\text{Pd}(\text{PPh}_3)_2\text{Cl}_2$ catalysts and investigation of their biological activities." *Molecular diversity* 21.2 (2017): 305-315

2017 published papers

- 30) Karimabad, M. N., Mahmoodi, M., Jafarzadeh, A., **Darehkordi, A.**, Hajizadeh, M. R., Khorramdelazad, H. and Hassanshahi, G. "Evaluating of OCT-4 and NANOG was differentially regulated by a new derivative indole in leukemia cell line." *Immunology letters* 190 (2017): 7-14.

29) Karimabad, M. N., Mahmoodi, M., Jafarzadeh, A., **Darehkordi, A.**, Hajizadeh, M. R., Khorramdelazad, H. and Hassanshahi, G. "The novel Indole-3-formaldehyde (2-AITFEI-3-F) is involved in processes of apoptosis induction?." *Life sciences* 181 (2017): 31-44.

28) Karimabad, M. N., Mahmoodi, M., Jafarzadeh, A., **Darehkordi, A.**, Hajizadeh, M. R., Khorramdelazad, H. and Hassanshahi, G. "Regulatory effects of the novel synthesized Indole-3-carbaldehyde on expression of cell cycle genes: A study on Cyclin D and P21 expression by acute promyelocytic leukemia cell line (NB4)." *Cellular and molecular biology (Noisy-le-Grand, France)* 63.5 (2017): 60.

27) Poor, M. A., **Darehkordi, A.**, Anary-Abbasinejad, M. and Sodkouieh, S. M. "Synthesis of a New Biologically Active α -Ketothioamide Quinolone Derivatives." *Journal of Heterocyclic Chemistry* 54.5 (2017): 2781-2787.

26) Rahmani, Fariba, and **Ali Darehkordi**. "Synthesis of trifluoromethylated pyrroles via a one-pot three-component reaction." *Synlett* 28.10 (2017): 1224-1226.

25) Ramezani, Mahin, and **Ali Darehkordi**. "Synthesis of new (trifluoromethyl)-1H-benzo [e][1, 2, 4] triazolo [1, 2-a][1, 2, 4] triazine-1, 3 (2H)-diones and (trifluoromethyl) benzo [5, 6][1, 2, 4] triazino [1, 2-b] phthalazine-8, 13-diones." *Journal of Fluorine Chemistry* 193 (2017): 89-97.

24) **Darehkordi, Ali**, Behnam Zarezadeh Abarqouei, and Fariba Rahmani. "Cyclization–oxidation of Benzylidenehydrazinecarbothioamides by FeCl₃. 6H₂O or ZnCl₂. 6H₂O Catalysts and Synthesis of New 1, 3, 4-Thiadiazolo-[3, 2- α] Pyrimidines." *Journal of Heterocyclic Chemistry* 54.3 (2017): 1872-1879.

23) Ramezani, Mahin, and **Ali Darehkordi**. "A Facile Synthesis of New L-Proline-Based Trifluoromethyl Oxazole Derivatives Using Microwave Irradiation and Conventional Method." *Journal of Heterocyclic Chemistry* 54.2 (2017): 999-1006.

2016 published papers

22) Masoudi, Mozghan, **Ali Darehkordi** and Mohammad Anary-Abbasinejad. "A direct phosphine-mediated synthesis of polyfunctionalized pyrroles from arylglyoxals and β -enaminones." *Tetrahedron Letters* 57.1 (2016): 103-104.

21) **Darehkordi, Ali**, and Fariba Rahmani. "Synthesis of new α -trifluoromethyl substituted formamidines framework by using N-nucleophiles and N, S bidentate nucleophiles." *Journal of Fluorine Chemistry* 190 (2016): 41-47.

20) **Darehkordi, Ali**, Fatemeh Zand-Vakili, and Alireza Talebizadeh Rafsanjani. "A novel gabapentin based intermolecular Ugi four-center, three-component reaction for preparing N-cyclohexyl-2-(3-oxo-2-azaspiro [4, 5] decan-2-yl)-2-aryl acetamide derivatives." *Tetrahedron Letters* 57.4 (2016): 498-501.

19) Moghadam, Masoud Rohani, Sayedeh Maria Poorakbarian Jahromi, and **Ali Darehkordi**. "Simultaneous spectrophotometric determination of copper, cobalt, nickel and iron in foodstuffs and vegetables with a new bis thiosemicarbazone ligand using chemometric approaches." *Food chemistry* 192 (2016): 424-431.

18) **Darehkordi, A.**, Ramezani, M., Rahmani, F. and Ramezani, M. "Design, synthesis and evaluation of antibacterial effects of a new class of piperazinylquinolone derivatives." *Journal of Heterocyclic Chemistry* 53.1 (2016): 89-94.

17) Mohammadi, M., Hekmatara, S. H., Moghaddam, R. S. and **Darehkordi, A.** "Preparation and optimization photocatalytic activity of polymer-grafted Ag@ AgO core-shell quantum dots." *Environmental Science and Pollution Research* 26.13 (2019): 13401-13409.

2015 published papers

16) **Darehkordi, Ali**, and Somayeh Ghazi. "An efficient ultrasonic-assisted synthesis of ethyl-5-(aryl)-2-(2-alkoxy-2-oxoethylidene)-7-methyl-3-oxo-3, 5-dihydro-2H-thiazolo [3, 2-a] pyrimidine-6-carboxylate derivatives." *Arabian Journal of Chemistry* (2015).

15) **Darehkordi, A.**, Sadegh Hosseini, M., Mosavi, M. and Poorfreidoni, A. "Bentonite-titana Composite as an Efficient, Eco-friendly and Non-toxic Catalyst for Synthesis of Benzopyran Derivatives Under Heating and Solvent-free Conditions." *Letters in Organic Chemistry* 12.3 (2015): 159-167.

2014 published papers

14) Rahmani, Fariba, **Ali Darehkordi**, and Behrouz Notash. "Microwave-assisted synthesis of 1-aryl-5-(trifluoromethyl)-1H-tetrazoles." *Journal of Fluorine Chemistry* 166 (2014): 84-87.

13) Vazirinejad, R., Ayoobi, F., Arababadi, M. K., Eftekharian, M. M., **Darehkordi, A.**, Goudarzvand, M. and Shamsizadeh, A.. "Effect of aqueous extract of *Achillea millefolium* on the development of experimental autoimmune encephalomyelitis in C57BL/6 mice." *Indian journal of pharmacology* 46.3 (2014): 303.

12) **Darehkordi, Ali**, Zahra Karimi-Taleghani, and Omid Ali Pouralimardan. "One-pot of three-component synthesis of novel amino-spiroindene derivatives." *Journal of the Iranian Chemical Society* 11.3 (2014): 623-629.

11) **Darehkordi, A.**, Rahmani, F., Ramezani, M., Askari, F., Rudbari, H. A. and Bruno, G. "p-Toluidine-acetic acid as a catalyst for a one-pot efficient synthesis of quinoxaline and pyridopyrazin derivatives contain polyhydroxy chain with use of monosaccharides." *Journal of the Iranian Chemical Society* 11.6 (2014): 1629-1638.

2013 published papers

10) **Darehkordi, Ali**, Mahin Ramezani, and Reza Ranjbar-Karimi. "Synthesis of new gluco-, galacto-, and mannopyranosylthiazoles, thiazolidinones, and pyranosylthiazolidin-4-ones from sugar thiosemicarbazone derivatives." *Heteroatom Chemistry* 24.3 (2013): 200-207.

9) **Darehkordi, Ali**, Fariba Rahmani, and Vahide Hashemi. "Synthesis of new trifluoromethylated indole derivatives." *Tetrahedron Letters* 54.35 (2013): 4689-4692.

8) **Darehkordi, Ali**, Jabber Reentan, and Mahin Ramezani. "An efficient ultrasonic-assisted synthesis of the thiazolo [2, 3-b] quinazoline and thiazolo [3, 2-a] pyrimidine derivatives." *Journal of the Iranian Chemical Society* 10.3 (2013): 385-392.

2012 published papers

7) **Darehkordi, Ali**, and Somayeh Ghazi. "Synthesis of a New Class of Tris- and Bis (1, 3, 4-thiadiazol-2-amine) Methyl and Ethyl Tris- and Bis-2-(2-(2-benzoyl hydrazinyl)-4-oxothiazolidine) Acetate Derivatives." *Journal of Chemistry* 2013 (2012).

6) Saeidi, Mahboubeh, Reihaneh Aboutalebi, and **Ali Darehkordi**. "A New Spectrophotometric Reagent for Fe (III): 2-(2, 3-Dihydroxy-4-oxocyclobut-2-enylidene) Hydrozinecarbothiamide and Its Application in Real Samples." *Journal of Chemistry* 2013 (2012).

5) **Darehkordi, A.**, S. S. Hosseini, and M. Tahmooreesi. "Montmorillonite modified as an efficient and environment friendly catalyst for one-pot synthesis of 3, 4-dihydropyrimidine-2 (1H) ones." *Iranian Journal of Materials Science & Engineering* 9.3 (2012): 49-57.

2011 published papers

4) **Darehkordi, Ali**, Kazem Saidi, and Somayeh Ghazi. "Facile one-pot synthesis of sugar-thiazolidinone derivatives." *Canadian Journal of Chemistry* 89.11 (2011): 1382-1386.

3) **Darehkordi, A.**, Javanmiri, M., Ghazi, S., & Assar, S. "Synthesis of N-aryl-2, 2, 2-trifluoroacetimidoyl piperazinylquinolone derivatives and their antibacterial evaluations." *Journal of Fluorine Chemistry* 132.4 (2011): 263-268.

2) Ranjbar-Karimi, Reza, Mahtab Mashak-Shoshtari, and **Ali Darehkordi**. "Ultrasound promoted facile synthesis of some pentafluoropyridine derivatives at ambient conditions." *Ultrasonics sonochemistry* 18.1 (2011): 258-263.

2010 published papers

1) Masoudi, Mozghan, **Ali Darehkordi**, and Ali Moshrefi. "An Efficient and Expedient Method for the Synthesis of Alkyl Oxo-1, 3-Thiazolan-5-Yliden Acetate Derivatives." *World Applied Sciences Journal* 10.11 (2010): 1313-1320.

b. Full Papers Published in Farsi language.

2) Darekordi, A., Rahmani, F., Hashemi, V., Omid, A. "سنتز مشتقات سیکلوبوتاگونین اگزالین-۲،۱-دی ال با" *Iranian Journal of Chemistry* (2019).

1) **Darekordi, A.**, Zarandi, E. R., Assar, S., Rezahosseini, O., Assar, S. "تشخیص عفونتهای باکتریایی؛ روش های سنتی و مولکولی: یک مرور سنتی" *Journal of Rafsanjan University of Medical Sciences* 17.9 (2018).

Master's thesis and Ph.D. Guidance

Ph.D		
Mahin Ramezani	Mahdiyeh Talebizadeh	Salimeh Abdi Nasab
Fariba Rahmani	Navid Khaje Ali	
Mahboobeh Amiranipour	Elham Kazemi	
	Mahdieh Sajjadi	

Master's			
Mahin Ramezani	Abdul Hossein Namvar	Vahid Salehi	Najme Zeinli
Navid Khaje Ali	Masoumeh Rostami	Imran Heidari	Darvishi
Fatemeh Zand Vakili	Vahideh Hashemi	Somayeh Ghazi	mohammadi
Mehdi Fazli Zafarani	Fahimeh Asgari	Zahra Ahmadi	

Farzaneh Rahimi	Maryam Sohrabi	Kobra Hosseini
Fereshteh Nick Mehr	Zahra Karimi Taleghani	Chatterari
Naeimeh Nasiri Shams	Asiyeh Sheikh Zadeh	Kobra Siyahi
Maryam Kashefi	Alireza Pourfouridouini	Maryam Tahmasebi
Somayeh Mohammadi	Fatemeh Esmaili	Zahra Rezaei
Mansoure Kamali	Fariba Rahmani	Maryam Mansouri
Meysam Soltani Nejad	Fahimeh Bahadorinia	Tayebeh Talebi
Behnam Zare Abarghouei	Farzaneh Nejadkhorasani	Jabir Roein Ton

Master's thesis and Ph.D. Consultation

Ph.D

Mohammad Malek Hosseini

Master's

Ali Ahmadi Majd	mahtAb
Maria Pour Akbarian Jahromi	mshak <u>shushtari</u>
Somayeh Hashemi	Elham knani
Marzieh Shirani	Razih Shakeri
