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Education and Degrees

1993 B.Sc. in Chemistry (Urmia University, Urmia, Iran, First Glass).

1997 M.Sc. in Chemistry (Tarbiat Modares University, Tehran, Iran, First Glass). Thesis title: Application of the Lithium Perchlorate and Magnesium Perchlorate in Organic Synthesis (Supervisor: Professor Akbar Heydari)

2003 Ph.D. in Organic Chemistry (Tarbiat Modares University, Tehran, Iran, First Glass). Dissertation title: Synthesis of the Stable Hydroxyphosphoranes and the New Organic Compounds Based on Acetylenic Ketones (Supervisor: Professor Issa Yavari)

Research Interests:

- A.** Synthesis of Heterocyclic and Organic Compounds via Multicomponent Reactions
- B.** Synthesis and Characterization of Hybrid Heterocyclic Compounds and Investigation of Their Biological Activity
- C.** Theoretic Studies in Physical Organic Chemistry

List of Publications

- [237] **Abdolali Alizadeh**, Reihaneh Moterassed, Azar Rostampoor "Efficient Synthesis of Highly Substituted *N*-Arylamino quinolone-based Pyrrolo[3,4-*b*]pyridines and Pyrazolone-based Pyrrolo[3,4-*b*]pyridines Through a One-Pot Three-Component Reaction" *ChemistrySelect* **2023**, 8, e202300634.
- [236] **Abdolali Alizadeh**, Akram Bagherinejad "Revisited Synthesis of Fused Diazepines From 3-(3-Aryl-3-Oxopropenyl)chromen-4-ones and Binucleophilic Amino Enones in a Three-Step Domino Process" *Mendeleev Commun.* **2023**, 33, 401-403.
- [235] **Abdolali Alizadeh**, Azar Rostampoor "Base-promoted Synthesis of Dihydrochromeno[4,3-*d*]pyrrolo[3,4-*b*]pyridines from 4-Chloro-3-substituted Coumarins and α -Aminomaleimides" *Org. Biomol. Chem.* **2023**, 21, 6160-6168.
- [234] **Abdolali Alizadeh**, Azar Rostampoor, Mozhgan Alipour, Behnam Hajipour-Verdom and Parviz Abdolmaleki "Ultrasound-Promoted Synthesis of Novel *N*-Arylamino-3,5'-Biquinoline Derivatives: Their Applications in Live-Cell Imaging and in Vitro Anticancer Activity Evaluation" *New J. Chem.* **2023**, 47, 2479-2487.
- [233] **Abdolali Alizadeh**, Hamidreza Hasanpour, Reza Rezaiyehraad "Ultrasound-Assisted Green Synthesis of Pyrrole-Fused Pyrimidine and Imidazole Rings through a Tandem Pseudo-Four-Component Reaction" *ChemistrySelect* **2022**, 7, e202203889.
- [232] Behnaz Farajpour and **Abdolali Alizadeh** "Base-Promoted Reaction of 4-Chloro-3-vinyl Coumarins, Phenacylpyridinium Bromides, and Elemental Sulfur: A Designed Approach to Thiopyrano[4,3-*c*]chromen-5(1*H*)-ones" *J. Org. Chem.* **2022**, 87 (21), 13837-13844.
- [231] **Abdolali Alizadeh**, Azar Rostampoor "Efficient One Pot and Chemoselective Synthesis of Polysubstituted Dihydro-6*H*-chromeno[4,3-*d*]pyrazolo[1,5-*a*]pyrimidin-6-ones via a Four-Component Reaction" *ChemistrySelect* **2022**, 7, e202200299.
- [230] **Abdolali Alizadeh**, Behnaz Farajpour "Facile Synthesis of Benzo[*c*]chromen-6-ones via Base-Promoted Reaction of 4-Chloro-3-formylcoumarin and α,α -Dicyanoolefins" *Synlett* **2022**, 33, 1251-1254.

- [229] **Abdolali Alizadeh**, Akram Bagherinejad, and Jasmine Kayanian "1,3-Dimethylbarbituric Acid Promoted Metal-Free Cascade Annulation for Straightforward Access to Benzimidazole Fused Heterocycles" *ChemistrySelect* **2022**, 7, e202200762.
- [228] **Alizadeh, Abdolali**; Elham Sanjari1 Reza Rezaiyehraad, Mohammadreza Halvagar "One Pot Diastereoselective Synthesis of Highly Functionalized Chromenone Substituted 4,5-Dihydrofuran via Sequential Three component Reaction" *J. Iran. Chem. Soc.* **2022**, 19, 2459-2466.
- [227] **Abdolali Alizadeh**, Reza Rezaiyehraad "Recyclization of 3-Formylchromone with Phenacyl Thiocyanate: Fast and Efficient Access to Thiophenes and 2-Aminothiophenes Bearing *O*-Acylphenol Moiety" *J. Sulfur Chem.* **2022**, 43, 264-274.
- [226] **Alizadeh, Abdolali**; Azar Rostampoor "An Efficient Synthesis of Novel Functionalized Benzo[h]pyrano[2,3-*b*]quinolines and Pyrano[2,3-*b*]quinoline Derivatives via One pot Multicomponent reactions" *J. Iran. Chem. Soc.* **2022**, 19, 1239-1249.
- [225] **Abdolali Alizadeh**, Akram Bagherinejad, Jasmine Kayaniana and Robert Vianello "An Expedient Metal-Free Cascade Route to Chromonyl Diene Scaffolds: Thermodynamic vs. Kinetic Control" *RSC Adv.* **2022**, 12, 34946-34950.
- [224] Behnaz Farajpour and **Abdolali Alizadeh** "Recent Advances in the Synthesis of Cyclic Compounds Using α,α -Dicyanoolefins as Versatile Vinylogous Nucleophiles" *Org. Biomol. Chem.* **2022**, 20, 8366-8394.
- [223] **Abdolali Alizadeh**, Akram Bagherinejad "A Review of The Synthetic Strategies Toward Spirobarbiturate-Fused 3- to 7-Membered Rings" *Org. Biomol. Chem.* **2022**, 20, 7188-7215.
- [222] **Abdolali Alizadeh**, Akram Bagherinejad, Jasmine Kayaniana and Robert Vianello "An Experimental and Computational Study of New Spiro-Barbituric Acid Pyrazoline Scaffolds: Restricted Rotation Vs. Annular Tautomerism" *New J. Chem.* **2022**, 46, 7242-7252.
- [221] Behnaz Farajpour, **Abdolali Alizadeh** "Chemoselective and One-pot Synthesis of Novel Coumarin-based Cyclopenta[c]pyrans via Base-mediated Reaction of α,β -Unsaturated Coumarins and β -ketodinitriles" *RSC Adv.* **2022**, 12, 7262-7267.

- [220] **Abdolali Alizadeh**, Azar Rostampour "A Convenient Synthesis of Polysubstituted Coumarinpyrrolo[2,1-*a*]isoquinoline-1-carbaldehydes from Isoquinoline, 2-Bromoacetophenones and Coumarin- β -chlorovinyl Aldehydes" *ChemistrySelect* **2021**, *06*, 12960-12964.
- [219] **Abdolali Alizadeh**, Behnaz Farajpour, Reza Rezaiyehraad, and Mojtaba Khanpour "When 4-Chloro-3-vinyl Coumarins Meet Cyclic 1,3-Diketones: Chemoselective and Unexpected Synthesis of Benzocoumarin Derivatives" *ChemistrySelect* **2021**, *06*, 11925-11930.
- [218] **Abdolali Alizadeh**, Akram Bagherinejad "Synthesis of Tetracyclic Pyrido-Fused Dibenzodiazepines via a Catalyst-Free Cascade Reaction" *Mol. Divers.* **2021**, *25*, 2237-2246.
- [217] **Abdolali Alizadeh**, Elham Sanjari, Atefeh Roosta, Mohammadreza Halvagar "Synthesis of Polycyclic *N*-Heterocyclic Compounds via One-Pot Three-Component Cyclization Strategy" *Mol. Divers.* **2021**, *25*, 2063-2072.
- [216] **Abdolali Alizadeh**, Akram Bagherinejad and Mojtaba Khanpour "Molecular Iodine-Mediated Synthesis of 2-Azaanthraquinones from [3.3.3]Propellanes via a Metal-Free Rearrangement" *Synthesis* **2021**, *53*(21), 4059-4067.
- [215] **Abdolali Alizadeh**, Behnaz Farajpour "Chemoselective Synthesis of Substituted Benzo[*c*]chromen-6-ones through Base-Promoted Reaction of α,β -Unsaturated Coumarins and α -Cyano Carbonyls" *ChemistrySelect* **2021**, *06*, 6150-6153.
- [214] **Abdolali Alizadeh**, Parinaz Jamal, Atefeh Roosta, Reza Rezaiyehraad, Tian-Fu Liu & Mojtaba Khanpour "Dipolar Cycloaddition Strategy for Three-Component Synthesis of Chromeno[3',4':3,4]pyrido[2,1-*a*]isoquinoline Derivatives" *Mol. Divers.* **2021**, *25*, 701-710.
- [213] **Abdolali Alizadeh**, Reza Rezaiyehraad "Group-Assisted Purification Chemistry Principles to Access Highly Substituted Zwitterionic Furans via Fast, Concise, and Efficient One-Pot Three-Component Assembly" *Chem. Heterocycl. Compd.* **2021**, *57*(3), 239-244.
- [212] **Abdolali Alizadeh**, Behnaz Farajpour and Mojtaba Khanpour "Efficient Synthesis of 7,8-Dihydro-6*H*-benzo[*c*]chromen-6-one Derivatives by Base-Mediated Chemoselective Annulation of Alkylidene Malononitriles with α,β -Unsaturated Coumarins" *Synlett* **2021**, *32*, 697-700.

- [211] **Abdolali Alizadeh**, Akram Bagherinejad "Synthesis of 2-*O*-Functionalized-5-salicyloyl Pyridine Derivatives Catalyzed by 2-Mercaptobenzimidazole" *ChemistrySelect* **2020**, *5*, 14303-14303.
- [210] **Alizadeh, Abdolali**; Kaveh Amir Ashjaee Asalemi, Behnaz Farajpour, Mohammadreza Halvagar "Formation of Epoxychromeno[4,3-*c*]isoquinolines Through Diastereoselective One-Pot IMDA Reaction of 4-Chloro-3-[(1*E*)-3-oxo-3-phenyl-1-propen-1-yl]-2*H*-chromen-2-one and Furfurylamine" *J. Iran. Chem. Soc.* **2020**, *17*, 3393-3399.
- [209] **Abdolali Alizadeh**, Behnaz Farajpour, Tim-Oliver Knedel, and Christoph Janiak "Synthesis of Substituted Phthalimides via Ultrasound-Promoted One-Pot Multicomponent Reaction" *J. Org. Chem.* **2021**, *86*, 574-580.
- [208] **Abdolali Alizadeh**, Akram Bagherinejad and Mojtaba Khanpour "An Expedient Multicomponent Assembling of 1-Azaxanthenes" *Mendeleev Commun.* **2020**, *30*, 791-793.
- [207] **Alizadeh, Abdolali**; Atefeh Roosta, Reza Rezaiyehraad, mojtaba khanpour "Efficient and Chemoselective Procedure for Conversion of Rhodanine Derivatives into 1,3-Thiazolidine-2,4-diones via 1,3-Dipolar Cycloaddition Reaction and Rearrangement Sequences" *ChemistrySelect* **2020**, *5*, 12531-12534.
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- [205] **Abdolali Alizadeh**, Behnaz Farajpour, Sanam Sadeghi Mohammadi, Mosslim Sedghi, Hossein Naderi-Manesh, Christoph Janiak, and Tim-Oliver Knedel "Design and Synthesis of Coumarin-Based Pyrazolopyridines as Biocompatible Fluorescence Dyes for Live-Cell Imaging" *ChemistrySelect* **2020**, *5*, 9362-9369.
- [204] **Alizadeh, Abdolali**; Atefeh Roosta, Reza Rezaiyehraad "Efficient Access to Pyrido[1,2-*a*]Pyrimidines and Imidazo[1,2-*a*]Pyridines through Knoevenagel Reaction/Aza-Ene Addition/Intramolecular Cyclization" *J. Iran. Chem. Soc.* **2020**, *17*, 1123-1130.
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- [202] **Abdolali Alizadeh**, Atefeh Roosta, Mohammadreza Halvagar "An Efficient Regioselective Access to (11Z)-11-(3-Aryl-5,6-dihydropyrazin-2(1H)-ylidene)-11H-indeno[1,2-b]quinoxaline Derivatives via One-Pot Three-Component Reaction" *ChemistrySelect* **2019**, *4*, 13503-13505.
- [201] **Abdolali Alizadeh**, Reza Rezaiyehraad, Atefeh Roosta, Mohammadreza Halvagar "Synthesis of 1H-Thiopyrano[4,3-c]quinoline Scaffold via One-pot Three-component Cyclization" *ChemistrySelect* **2019**, *4*, 12049-12052.
- [200] **Abdolali Alizadeh**, Hossein Ghasemzadeh, Reza Rezaiyehraad, Hong-Ping Xiao "Triethylammonium Thiolate as an Efficient Reagent for Synthesis of Quinoxaline Containing Indandione Substitution via Sequential One-Pot Multicomponent Reaction" *J. Sulfur Chem.* **2019**, *40*, 614-628.
- [199] **Abdolali Alizadeh**, Akram Bagherinejad, Fahimeh Bayat, Seyed Yasub Hosseini, Long-Guan Zhu "Diastereoselective Synthesis of Cyclohexadienes via Tandem Cyclization Strategies" *Mol. Divers.* **2019**, *23*, 651-656.
- [198] **Abdolali Alizadeh**, Kaveh Amir Ashjaee Asalemi and Mohammadreza Halvagar "Intramolecular Diels-Alder and [3+2] Cycloaddition Reactions in the One-Pot Synthesis of Epoxy pyrrolo[3,4-g]indazoles" *Synthesis* **2019**, *15*, 2936-2944.
- [197] **Abdolali Alizadeh**, Hossein Ghasemzadeh, Hong-Ping Xiao "A Highly Efficient Synthesis of Pyrrolo[1,2-a]pyrimidine Derivatives Containing 1,3-Indandione Skeleton" *ChemistrySelect* **2019**, *4*, 7446-7449.
- [196] **Abdolali Alizadeh**, Hossein Ghasemzadeh, Atefeh Roosta, and Mohammadreza Halvagar "An Efficient Ultrasound Promoted Three-Component and Regioselective Synthesis of Indenoquinoxaline Compounds Containing Pyrrolopyrimidine Skeleton" *ChemistrySelect* **2019**, *4*, 4483-4486.
- [195] Mojtaba Farrokhi, Mahdi Abdollahi, **Abdolali Alizadeh** "An Efficient Method for Straightforward Phosphorylation of Ethylene/Vinyl alcohol Copolymers Using Trialkyl Phosphite/Iodine" *Polymer* **2019**, *169*, 215-224.

- [194] **Abdolali Alizadeh**, Atefeh Roosta, and Mohammadreza Halvagar "Four-Component Regio- and Diastereoselective Synthesis of Pyrrolizidines Incorporating Spiro-Oxindole/Indanedione via 1,3-Dipolar Cycloaddition Reaction of Azomethine Ylides" *ChemistrySelect* **2019**, *4*, 71-74.
- [193] **Abdolali Alizadeh**, Reza Rezaiyehraad, and Mohammadreza Halvagar "Ultrasonic Methylation of Triethylammonium Thiolate as a Key Strategy for Synthesis of Tetrahydropyrazine-Containing 2-Oxindole Scaffold" *ChemistrySelect* **2019**, *4*, 130 -133.
- [192] Mahnaz Nozohour Yazdi, Yadollah Yamini, Hamid Asiabi, **Abdolali Alizadeh** "A Metal Organic Framework Prepared From Benzene-1,3,5-Tricarboxylic Acid And Copper (II), and Functionalized with Various Polysulfides as a Sorbent for Selective Sorption of Trace Amounts of Heavy Metal Ions" *Microchimica Acta* **2018**, *185*, 525-532.
- [191] **Abdolali Alizadeh**, Atefeh Roosta "Synthesis of a New Series of Aryl(thieno[2,3-*b*]quinoline-2-yl)methanone and 2-(2-Aroyl-2,3-dihydrothieno[2,3-*b*]quinoline-3-yl)-1-arylethanone Derivatives via Sequential Multi-Component Reaction" *Chem. Pap.* **2018**, *72*, 2467-2478.
- [190] **Abdolali Alizadeh**, Behnaz Farajpour "Efficient Synthesis of Coumarin-Based α -Acyloxy Amides as Promising Starting Materials for Diverse Post-Condensation Reactions" *Heterocyclic Lett.* **2021**, *11*, 11-18.
- [189] **Abdolali Alizadeh**, Atefeh Roosta & Kaveh Amir Ashjaee Asalemi "One-pot Three-Component Synthesis of 2*H*-Thiopyrano[2,3-*b*]quinoline-2,3-dicarboxylates from 2-Mercaptoquinoline-3-carbaldehydes, Dialkyl acetylenedicarboxylates and Ph₃P" *J. Sulfur Chem.* **2018**, *39*, 435-442.
- [188] **Abdolali Alizadeh**, Leila Moafi and Long-Guan Zhu "Synthesis of Fully Substituted Pyrazoles via Regioselective 1,3-Dipolar Cycloaddition Reaction" *J. Iran. Chem. Soc.* **2018**, *15*, 1255-1259.
- [187] **Abdolali Alizadeh**, Parinaz Jamal "Synthesis of Chromeno[4',3':4,5]pyrido[1,2-*a*]pyrazines and α -Diazepines by the Reaction of Substituted 2-(3-Acetyl-2-oxo-2*H*-chromen-4-yl)fumarates with 1,*n*-Diamines" *Synlett* **2018**, *29*, 1107-1111.
- [186] **Alizadeh, Abdolali**; Reza Mohammadi; Fahimeh Bayat; Zhu, Long-Guan "Proton Transfer Process in Synthesis of 3-Acetyl-4-(Substitutedethylenyl)coumarins and Chromeno[3,4-*c*]pyridines" *Tetrahedron* **2018**, *74*, 2085-2091.

- [185] **Abdolali Alizadeh**, Fahimeh Bayat and Long-Guan Zhu "A One-Pot Synthetic Strategy for the Construction of Chromenoimidazopyridines and Chromenopyridopyrimidines Containing Intramolecular Hydrogen Bonds" *J. Iran. Chem. Soc.* **2018**, *15*, 337-342.
- [184] **Abdolali Alizadeh** and Leila Moafi "A Simple and Convenient Method for the Synthesis of Pyrano[3,2-*c*]chromenes via Sequential Three Component Reaction" *Lett. Org. Chem.* **2018**, *15*, 45-48.
- [183] Amir Hossein Vahabi, **Abdolali Alizadeh**, Ayoob Bazgir "CSP3-N Bond Formation in Amino Thiophenes by 1,1-Dibromo isocyanide: The Unexpected 1,5-Binucleophilicity of Substrates" *J. Iran. Chem. Soc.* **2017**, *14*, 2607.
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- [179] **Alizadeh, Abdolali**; Atefeh Roosta, Mohammadreza Halvagar "An Efficient One-pot Synthesis of Highly Substituted [1,8]Naphthyridin-1-phenyl-1-ethanone Derivatives via a Four-Component Reaction" *J. Iran. Chem. Soc.* **2017**, *14*, 2157-2167.
- [178] **Abdolali Alizadeh**, Sara Basiri Abarghoei, Fahimeh Bayat, Mohammadreza Halvagar, Long-Guan Zhu "Application of Oxa-aza[3.3.3]propellanes in the Diastereoselective Synthesis of Indeno[1,2-*b*]pyrroles Bearing Bistriazole Unit" *Tetrahedron* **2017**, *73*, 5800-5805.
- [177] **Alizadeh, Abdolali**; Reza Mohammadi; Fahimeh Bayat; Zhu, Long-Guan "Metal-Free Regioselective Construction of Diazabenz[e]acephenanthrylene-1,2-dicarboxylates via a Phosphine-Mediated Cycloaddition" *Tetrahedron* **2017**, *73*, 4433-4438.

- [176] **Abdolali Alizadeh**, Fahimeh Bayat, Moafi, Leila; "Application of 3-Methylene- and 3-(Monosubstituted)alkylideneoxindoles in the Synthesis of Heterocyclic Compounds" *Curr. Org. Chem.* **2017**, *21*, 1292-1334.
- [175] **Abdolali Alizadeh** and Leila Moafi "A Simple and Convenient Approach for the Synthesis of Spiropyrazole Derivatives via 1,3-Dipolar cycloaddition reaction" *Heterocycl. Lett.* **2017**, *7*, 583.
- [174] Amir Hossein Vahabi, **Abdolali Alizadeh**, Hamid Reza Khavasi, Ayoob Bazgir "Palladium-Catalyzed, Unsymmetrical Homocoupling of Thiophenes via Carbon-Sulfur Bond Activation: A New Avenue to Homocoupling Reactions" *Org. Biomol. Chem.* **2017**, *15*, 7830-7840.
- [173] **Abdolali Alizadeh**, Akram Bagherinejad, Fahimeh Bayat, Long-Guan Zhu "One-Pot Regio- and Chemo-Selective Synthesis of Thiazatricyclododecane" *Tetrahedron* **2016**, *72*, 7070-7075.
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- [170] **Alizadeh, Abdolali**; Moafi, Leila; "Convenient One-Pot Synthesis of Spirooxindole Derivatives Containing a 1,3,4-Thiadiazine Scaffold" *Synlett* **2016**, *27*, 1828-1831.
- [169] **Abdolali Alizadeh**, Akram Bagherinejad, Leila Moafi; Zhu, Long-Guan "A Catalyst-Free Synthetic Route to Thiazolo[3,4-*a*]benzimidazole Derivatives through a Three-Component Reaction" *Synlett* **2016**, *27*, 1803-1805.
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- [167] **Abdolali Alizadeh**, Leila Moafi "A Convenient 1,3-Dipolar Cycloaddition Reaction for the Synthesis of Spirooxindoles and Some Other Spirocompounds Containing the 1,3,4-Oxadiazole Moiety" *Helv. Chem. Acta* **2016**, *99*, 457-461.

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- [165] **Abdolali Alizadeh**, Amir Hossein Vahabi, Ayoob Bazgir, Hamid Reza Khavasi, Zhe Zhu, Long-Guan Zhu "Determinative Role of Ring Size and Substituents in Highly Selective Synthesis of Functionalized Bicyclic Guanidine and Tetra Substituted Thiophene Derivatives Based on Salt Adducts Afforded by Cyclic Thioureas and Ketene Dithioacetal" *Tetrahedron* **2016**, *72*, 1342-1350.
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- [162] **Abdolali Alizadeh**, Fahimeh Bayat, Atefeh Roosta "A Versatile and One-Pot Strategy to Synthesis of 1,3,5-Trisubstituted-1,2,4-triazoles having the Cyano Substitution" *Heterocycl. Lett.* **2016**, *6*, 631-636.
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- [159] **Abdolali Alizadeh**, Fahimeh Bayat, Leila Moafi, Long-Guan Zhu "5-Hydroxybenzo[*g*]indoles Formation from Oxa-aza[3.3.3]propellanes" *Tetrahedron* **2015**, *71*, 8150-8154.
- [158] **Abdolali Alizadeh**, Seyed Yasub Hosseini, Hadi Sedighian, Fahimeh Bayat, Zhe Zhu, Michal Dusek "Synthesis of 5,6-Dihydroquinolines and Succinates via the Reaction of α,α -Dicyanoolefins and Acetylenic Esters in a Ratio of 2:1" *Tetrahedron* **2015**, *71*, 7885-7891.

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