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Date of Birth: 1977
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Ph.D.: In Organic Chemistry at Mazandaran University, Babolsar, Iran, 2004-2009

M.Sc.: In Organic Chemistry at Mazandaran University, Babolsar, Iran, 2000-2003

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سوابق پژوهشی

چاپ مقاله در مجلات ISI

1. Title: A theoretical investigation on the regioselectivity of the intramolecular hetero Diels–Alder and 1,3-dipolar cycloaddition reactions of 2-(vinylloxy)benzaldehyde derivatives
Author(s): MAHSHID HAMZEHLLOUEIAN, SAEID YEGANEGI, YAGHOUB SARRAFI, **KAMAL ALIMOHAMMADI** and MARZIEH SADATSHAHABI
Source: J. Serb. Chem. Soc. Volume:79 Pages:911-920 Published: **2014**
2. Title: Mesoporous SBA-15 nanoparticles: An efficient and eco-friendly Catalyst for onepot synthesis of 3, 4-dihydropyrimidin-2(1H)-ones under solvent-free conditions
Author(s): Yaghoub Sarrafi*, Farzane Pazokie, Seyed Naser Azizi, Kamal Alimohammadi, Ebrahim Mehrasbi and Elham Chiani
Source: Current Chemistry Letters Volume:3 Pages:97-102 Published: **2014**
3. Title: An expedient approach for the regio- and stereoselective synthesis of novel spiroindolizidines via [3+2] cycloaddition
Author(s): **Kamal Alimohammadi**, Yaghoub Sarrafi, Bahareh Rajabpour
Source: Comptes Rendus Chimie Volume:17 Pages:156-163 Published: **2014**

4. Title: Synthesis of functionalized pyrrolizidines /pyrrolidines incorporating a spi-rooxindole motif through [3+2] cycloaddition
Author(s): Sarrafi, Y; Sadatshahabi, M; Hamzehloueian M ; **Alimohammadi, K**; Tajbakhsh, M
Source: Synthesis Volume:45 Pages:2294-2304 Published: **2013**

5. Title: A Facile Regioselective Synthesis of Novel Spiroacenaphthene Pyrrolo Isoquinolines Through 1,3-Dipolar Cycloaddition Reactions
Author(s): Sarrafi Y; Hamzehloueian M ; **Alimohammadi K**; Yeganegi
Source: j. braz. chem. Soc. Volume: 24 Pages:1957-1963 Published: **2013**

6. Title: Experimental and theoretical approaches to [1,5]-prototropic generation of an azomethine ylide and a 1,3-dipolar cycloaddition for novel spiropyrrolidineoxindoles synthesis
Author(s): Sarrafi Y; Hamzehloueian M ; **Alimohammadi K**; Yeganegi S
Source: J. Mol. Struct. Volume:1030 Pages: 168-176 Published: **2012**

7. Title: 2,6-Dicarboxypyridinium Fluorochromate Promoted Oxidation of Alkyl-Arenes into Carbonyl Compounds Under Non-Aqueous and Aprotic Conditions,

Author(s): Sarrafi, Y; Tajbakhsh, M; Sadatshahabi, M; **Alimohammadi, K**
Source: Synth. Commun. Volume: 32 Pages: 1037-1039 Published: **2012**

8. Title: An improved catalytic method for the synthesis of 3,3-di(indolyl)oxindoles using Amberlyst 15 as a heterogeneous and reusable catalyst in water
Author(s): Sarrafi Y; **Alimohammadi K**; Sadatshahabi and M; Norozipoor N;
Source: MONATSHFTE FUR CHEMIE Volume: Pages: Published: **2012**Title:

9. Title: A green and rapid approach for the stereoselective vinylation of phenol, thiol and amine derivatives in water,
Author(s): Sarrafi, Y; Sadatshahabi, M; **Alimohammadi, K**; Tajbakhsh, M
Source: Green Chem. Volume: 13 Pages: 2851-2858 Published: **2011**

10. Title: An experimental and theoretical investigation of the regio- and stereoselectivity of the polar [3+ 2] cycloaddition of azomethine ylides to nitrostyrenes Author(s): **Kamal Alimohammadi**, Yaghoub Sarrafi, Mahmood Tajbakhsh, Yeganegi Saeed, Mahshid Hamzehloueian
Source: Tetrahedron Volume: 67 Pages: 1589-1597 Published: **2011**

11. Title: O-Xylylenebis(Triphenylphosphonium) Dichlorochromate: a Selective and Efficient Reagent for Oxidation of Alcohols, Trimethylsilyl Ethers and Thiols Author(s): M. Forozani, F. Jahani, **K. Alimohammadi**, R. Malekpouri and M. Tajbakhsh
Source: World Applied Sciences Journal, Volume: 12 Pages: 250-255 Published: **2011**

12. Title: Regioselective synthesis of novel spiroindane-1,3-diones through 1,3-dipolar cycloaddition reactions
Author(s): Sarrafi, Y; Hamzehlouian, M; **Alimohammadi, K**, et al.
Source: TETRAHEDRON LETTERS Volume: 51 Pages: 4734-4737 Published: **2010**

13. Title: Microwave-assisted chemoselective copper-catalyzed amination of o-chloro and o-bromobenzoic acids using aromatic amines under solvent free conditions
Author(s): Sarrafi, Y; Mohadeszadeh, M; **Alimohammadi, K**
Source: CHINESE CHEMICAL LETTERS Volume: 20 Pages: 784-788 Published: **2009**

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14. Title: [A mild, simple and efficient method for selective alpha-monobromination of 1,3-diketones and beta-ketoesters using pyridinium bromochromate](#)
Author(s): Sarrafi, Y; Sadatshahi, M; **Alimohammadi, K**
Source: CHINESE CHEMICAL LETTERS Volume: 20 Pages: 393-396 Published: **2009**
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15. Title: [1',5-Dinitro-2'-phenyl-2',3',5',6',7',7a'-hexahydrospiro\[indoline-3,3'-1'H-pyrrolizin\]2-one](#)
Author(s): Sarrafi, Y; **Alimohammadi, K**
Source: ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE
Volume: 64 Pages: O1740-U1785 Published: **2008**
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16. Title: [H6P2W18O62: A green and reusable catalyst for the synthesis of 3,3-diaryloxindole derivatives in water](#)
Author(s): **Alimohammadi, K**; Sarrafi, Y; Tajbakhsh, M
Source: MONATSHFTE FÜR CHEMIE Volume: 139 Pages: 1037-1039 Published: **2008**
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17. Title: [2'-Methyl-2'-nitro-1'-phenyl-2',3',5',6',7',7a'-hexahydrospiro\[indoline-3,3'-1'H-pyrrolizin\]-2-one](#)
Author(s): Sarrafi, Y; **Alimohammadi, K**
Source: ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE
Volume: 64 Pages: O1490-U2281 Published: **2008**
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18. Title: [Quinolinium fluorochromate: An efficient and convenient reagent for oxidative cleavage of thioacetals to their parent carbonyl compounds](#)
Author(s): Tajbakhsh, M; **Alimohammadi, K**; Ramzanian-Lehmali, F, et al.
Source: PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS
Volume: 180 Pages: 2587-2591 Published: **2005**
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19. Title: [Quinolinium fluorochromate: an efficient and selective reagent for the deprotection of semicarbazones under non-aqueous conditions](#)
Author(s): Tajbakhsh, M; **Alimohammadi, K**; Behmadi, H, et al.
Source: JOURNAL OF CHEMICAL RESEARCH-S Pages: 35-37 Published: **2005**
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20. Title: [An efficient and selective solid state oxidation of thiols to disulfides with quinolinium fluorochromate on silica gel](#)
Author(s): Tajbakhsh, M; Mohammadpoor-Baltork, I; **Alimohammadi, K**
Source: MONATSHFTE FÜR CHEMIE Volume: 134 Pages: 1571-1575 Published: **2003**
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21. Title: [Selective conversion of thioamides and thioureas to their oxygen analogues using quinolinium fluorochromate](#)
Author(s): Tajbakhsh, M; Mohammadpoor-Baltork, I; **Alimohammadi, K**
Source: Indian journal of chemistry Volume: 42 Pages: 2638-2640 Published: **2003**
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چاپ مقاله در مجلات علمی - پژوهشی

1. Title: [ab initio/DFT calculations ¹³C, ¹H NMR chemical shifts and bond length in synthesized spirooxindol compound](#)
Author(s): Seyed Naser Azizi, Salma Ehsani, **Kamal Alimohammadi**, and Chekavak Esmaili

Source: Iranian Journal of Organic Chemistry Volume: 4 Pages: 252- Published: 2009

2. Title: Synthesis of Cefuroxime antibiotic precursor: [(6R,7R)-7-[2-furanyl-(z)-2-methoxyimino]acetamido-3-hydroxymethyl-3-cephem-4-carboxylic acid
Author(s): Yaghoub Sarrafi, **Kamal Alimohammadi**, Khadijeh Alipour
Source: J. Semnan Applied Chem., Volume: 9 Pages: 67- Published: 2008
3. Title Title: 3-Carboxypyridinium bromochromate: A new and efficient reagent for the deprotection of phenylhydrazones and oximes
Author(s): Sarrafi, Y.; **Alimohammadi, K.**; Javanparast, R. and Khaksar M.
Source: J. Semnan Applied Chem., Volume: 2 Pages: 65- Published: 2007

ارائه مقاله به صورت پوستر در سمینار های ملی و بین المللی

1. Title: Synthesis of 3-hydroxyoxindoles in the presence of DBU in water
Author(s): Yaghoub Sarrafi, Maryam Taghavi, **Kamal Alimohammadi**
15th Iranian Chemistry Congress, 4-6 September 2011, Bu-Ali Sina University, Hamedan, Iran
2. Title: Aryl ninyl ethers as 2 component in 1,3-dipolar cycloaddition reaction-an efficient synthesis of new class of spirooxindolopyrrolizidines
Author(s): Yaghoob Sarrafi, Marzieh Sadatshahabi, **Kamal Alimohammadi**
15th Iranian Chemistry Congress, 4-6 September 2011, Bu-Ali Sina University, Hamedan, Iran
3. Title: One-Pot Synthesis of 3,4-Dihydropyrimidin-2(1H)-ones (Thiones) under Solvent Free Promoted by Nano Zeolite SBA-15
Author(s): Yaghoub Sarrafi,* Seyed Naser Azizi, Farzane Pazokie, **Kamal alimohammadi**, Elham chiyani
15th Iranian Chemistry Congress, 4-6 September 2011, Bu-Ali Sina University, Hamedan, Iran
4. Title: Investigation of regioselectivity in 1,3-dipolar cycloaddition reactions of various azomethine ylides with trans- β -nitrostyrene deriva
Author(s): Yaghoub Sarrafi, Mahdie Norouzi, **Kamal Alimohammadi**
15th Iranian Chemistry Congress, 4-6 September 2011, Bu-Ali Sina University, Hamedan, Iran
5. Title: An improved procedure for preparation of carbapenem antibiotic: Meropenem
Author(s): Yaghoob Sarrafi, Marzieh Sadatshahabi, **Kamal Alimohammadi**
17th Iranian Seminar of Organic Chemistry, 13-15 October 2010, University of Mazandaran, Babolsar, Iran

6. Title: Synthesis of spiro [indene-2, 3'-pyrrolo [2, 1-a] isoquinoline]-1, 3-diones through 1, 3-dipolar cycloaddition reaction
Author(s): Yaghoub Sarrafi, Bahareh Rajabpour, **Kamal Alimohammadi**
17th Iranian Seminar of Organic Chemistry, 13-15 October **2010**, University of Mazandaran, Babolsar, Iran
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7. Title: Synthesis of O-vinyl salicylaldehydes as precursor for intramolecular 1,3-dipolar cycloaddition reaction
Author(s): Yaghoob Sarrafi, Marzieh Sadatshahi, **Kamal Alimohammadi**
17th Iranian Seminar of Organic Chemistry, 13-15 October **2010**, University of Mazandaran, Babolsar, Iran
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8. Title: Stereoselective synthesis of novel spiropyrrolidineoxindoles through [3+2] cycloaddition reaction of azomethine ylides
Author(s): Yaghoub Sarrafi, Bahareh Rajabpour, **Kamal Alimohammadi**
17th Iranian Seminar of Organic Chemistry, 13-15 October **2010**, University of Mazandaran, Babolsar, Iran
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9. Title: An expedient approach for the synthesis of spiropyrrolidine oxindoles through 1,3-dipolar cycloaddition reactions
Author(s): Yaghoub Sarrafi, Mahshid Hamzehlouian, **Kamal Alimohammadi**
17th Iranian Seminar of Organic Chemistry, 13-15 October **2010**, University of Mazandaran, Babolsar, Iran
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10. Title: A facile synthesis of novel spiroindane-1,3-diones via one-pot three-component [3+2] azomethine ylide cycloaddition
Author(s): Yaghoub Sarrafi, Mahshid Hamzehlouian, **Kamal Alimohammadi**
17th Iranian Seminar of Organic Chemistry, 13-15 October **2010**, University of Mazandaran, Babolsar, Iran
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11. Title: Synthesis of novel spiropyrrolidines through multicomponent 1, 3 -dipolar cycloaddition reaction
Author(s): Yaghoub Sarrafi, Asieh Asghari, **Kamal Alimohammadi**
17th Iranian Seminar of Organic Chemistry, 13-15 October **2010**, University of Mazandaran, Babolsar, Iran
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12. Title: Theoretical study of reaction mechanism and regioselectivity of novel spirooxindole nitro pyrrolizidine derivatives
Author(s): Y. Sarafi, M. Hamzehlooian and **K. Alimohammadi**
16th Iranian Seminar of Organic Chemistry, 18-20 August **2009**, Zanzan University
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13. Title: Synthesis of chromene derivatives from aryl aldehydes and alkyne compounds

Author(s): Y. Sarrafi, M. Sadatshahabi and **K. Alimohammadi**
16th Iranian Seminar of Organic Chemistry, 18-20 August 2009, Zanzan University

14. Title: A convenient synthesis of 3,3-di(indolyl)oxindoles using Amberlyst-15 as a heterogeneous reusable catalyst

Author(s): Y. Sarrafi, **K. Alimohammadi**, M. Sadatshahabi and N. Norozipoor
16th Iranian Seminar of Organic Chemistry, 18-20 August 2009, Zanzan University

15. Title: 1,3-Dipolar cycloaddition reaction of azomethine ylides with unusual olefine for a straightforward synthesis of dispiropyrrolidines

Author(s): Y. Sarrafi, □ E. Mehrasbi and **K. Alimohammadi**
16th Iranian Seminar of Organic Chemistry, 18-20 August 2009, Zanzan University

16. Title: Regioselective synthesis of novel spirooxindolo nitro pyrrolizidines through azomethine ylide cycloaddition reaction

Author(s): Y. Sarrafi □ and **K. Alimohammadi**
16th Iranian Seminar of Organic Chemistry, 18-20 August 2009, Zanzan University

17. Title: Separation and Purification of Phenylacetic acid from Waste Water of 6-Amino Penicillanic Acid and its Conversion to phenylglycine

Author(s): Sarrafi Y, Asghari F1,2, **Alimohammadi K**
15th Iranian Seminar of Organic Chemistry, 27-29 August 2008, Razi University, Kermanshah

18. Title: Ammonium (meta) wolframate (H₂6N₆O₄₀W₁₂) as a heterogeneous recyclable catalyst for the synthesis of substituted-quinazolin-4(3H) -ones

Author(s): Yaghoub Sarrafi, **Kamal Alimohammadi**, Khadijeh Alipour
International Catalysis Conference (ICC), 28-30 April 2008, Shahid Beheshti University, Tehran, Iran

19. Title: Wells-Dowson Heteropolyacid as an efficient and reusable catalyst for the synthesis of 3,3-diaryloxindole derivatives

Author(s): Yaghoub Sarrafi, **Kamal Alimohammadi**, Khadijeh Alipour
International Catalysis Conference (ICC), 28-30 April 2008, Shahid Beheshti University, Tehran, Iran

20. Title: A Novel and Efficient Synthesis of (6R,7R)-7-[2-furanyl-(z)-2- methoxyimino] acetamido-3-hydroxymethyl-3-cephem-4-carboxylic acid as Precursor of Cefuroxime acid

Author(s): Sarrafi Y, Alipour K, Sadatshahabi M, **Alimohammadi K**
15th Iranian Seminar of Organic Chemistry, 27-29 August 2008, Razi University, Kermanshah

21. Title: Synthesis of (rac-4'R,8'R)-Alpha-tocopheryl acetate with High Yield and High Purity
Author(s): Sarrafi Y, Norozipoor N, **Alimohammadi K**
15th Iranian Seminar of Organic Chemistry, 27-29 August **2008**, Razi University, Kermanshah
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22. Title: Amberlist 15 as an Efficient Heterogeneous Catalyst for the Synthesis of 3,3-Disubstituted Oxindole
Author(s): Sarrafi Y, **Alimohammadi K**, Sadatshahabi M
15th Iranian Seminar of Organic Chemistry, 27-29 August **2008**, Razi University, Kermanshah
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23. Title: An efficacious method for chemoselective α -bromition of β -dicarbonyl compounds
Author(s): **Alimohammadi K.**, Sarrafi, Y., Tajbakhsh M., Khaledi H.
13th Iranian Seminar of Organic Chemistry, 7-9 september **2006**, Bu-Ali Sina University
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24. Title: Quinolinium fluorochromate as an efficient and convenient reagent for oxidative cleavage of thioacetals to their parent carbonyl compounds/
Author(s): Tajbakhsh, M., Mohammadpour-baltork, I., **Alimohammadi K**
14th Iranian Chemistry & Chemical Engineering Congress ,17-19 February **2004**, Tarbiat Moallem University, Tehran
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25. Title: Efficient method for conversion of semicarbazones to carbonyl compounds under non-aqueous conditions using quinolinium fluorochromate (QFC)
Author(s): Tajbakhsh, M., Mohammadpour-baltork, I., **Alimohammadi K.**
10th Iranian Seminar of Organic Chemistry, 21-23 August **2003**, Guilan University, Iran
-
26. Title: Novel desulfurization of thiocarbonyl compounds into their carbonyl compounds with quinolinium fluorochromate
Author(s): Tajbakhsh, M., Mohammadpour-baltork, I., **Alimohammadi K.**
10th Iranian Seminar of Organic Chemistry, 21-23 August **2003**, Guilan University, Iran