

Curriculum Vitae

Akbar Mobinikhaledi
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Personal

Sex: Male
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Qualifications

1986 **B.Sc. (Chemistry), Isfahan University, Iran.**

1991 **M.Sc. (Organic Chemistry), University of Mazandaran, Iran.**

Thesis: "Synthesis of Polyols from Industrial Formaldehyde."

1998 **Ph.D., University of Otago, New Zealand**

Thesis: "Effects of Metal Coordination on Reactivity of Heterocyclic Compounds."

Academic Awards

1. 1988 M.Sc. scholarship: Ministry of Culture and Higher Education, Iran.
2. 1993 Ph.D scholarship: Arak University, Iran.

Research interests include: Organic Synthesis, Catalyst, Nano catalyst, Organometallic

Publications

A. Papers

1. A new tetracycle from Dimerization of N-methylpyridazinium ion in aqueous solution; *Angew. Chem. Int. Ed.*, **37**, No 8 (1998) 1133-1135.

C. R. Clark, AG. Blackman, A. Mobinikhaledi , W. A. Redmond and R. Weavers

2. C(2)-H isotopic exchange in coordinated imidazoles revisited. The case of the $[\text{Co}(\text{NH}_3)_5\text{ImH}]^{3+}$ ion; *Can. J. Chem*, **77** (1999) 178-181.

C. R. Clark, AG. Blackman, M. R. Grimmett and A. Mobinikhaledi

3. Overcoming the chlate effect: hypodentate coordination of ethylenediamine, diethylenetriamine and tris(2-aminoethyl)amine in Co(III) complexes; *Inorganica Chimica Acta*, **37** (2000) 26-31.

R. L. Fanshawe, A. Mobinikhaledi, C. H. Clark and A. G. Blackman

4. Synthesis, Characterization and microbial activity studies of 4-aryl-6-methyl-2-thioxo(or oxo) 1,2,3,4-tetrahydropyrimidine-5-carboxylic acid derivatives; *Ultra Science* Vol. **12** (3) (2001) 277-280.

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5. Nuclear magnetic resonance studies of phthalazines and pyridazines ligands coordinated to Co(III), and their related N-methylated ligands; *Ultra Science* Vol. **13** (1) (2001) 101-105.

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6. A convenient synthesis by microwave assisted high-speed and antibacterial activity of ethyl-4-aryl-6-methyl-2-oxo(or thio)-1,2,3,4-tetrahydropyrimidine-5-carboxylate derivatives. *Asian. J Chem*; **14**(2002) 782-790.

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7. Synthesis and antibacterial activities of novel pyrimidines derived from 2-oxo(or thioxo)-4-phenyl-5-carbomethoxy-6-methyl-1,2,3,4-tetrahydropyrimidine; *Asian. J Chem*; **14** (2002) 614-618.

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8. High performance liquid chromatography determination of formitol; *Asian. J Chem*; **14** (2002), 1101-1103.

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9. A convenient synthesis of azomethine imines and their cycloaddition reactions with some dipolarophiles; *Asian. J Chem*; **14**(2002) 1441-1452.

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10. ^1H NMR studies of pyrazole ligands coordinated to Co(III); *Journal of Chemical Society of Pakistan*, **24** (2002) 149-151.

A. Mobinikhaledi, N. Foroughifar, B. Hogabry and KH. Zamani

11. H/D exchange in diazine ligands coordinated to Co(III) and their related quaternized salts in alkaline D_2O solution using NMR spectroscopy, A case for comparison, *Pak. J. Anal. Chem.* **4** (2003) 81.

A. Mobinikhaledi and N. Foroughifar

12. Synthesis of some Biginelli compounds in solvent medium using a photochemistry method; *Phosphorus, Sulfur, And Silicon And the Related Elements.* **178**(2003), 495-500.

N. Foroughifar, A. Mobinikhaledi and H. Fathinejad

13. Microwave-assisted synthesis of some pyrimidine derivatives using polyphosphate ester (PPE) in ceramic bath; *Phosphorus, Sulfur, And Silicon And the Related Elements*, **178** (2003) 1241-1246.

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14. Preparation and characterization of some metal complexes containing diazine ligands *Asian. J Chem*; **15**(2003) 455-458.

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15. Microwave-assisted synthesis of some bi- and tri-cyclic pyrimidine derivatives; *Phosphorus, Sulfur, And Silicon And the Related Elements*; **178** (2003) 1269-1276.

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16. Synthesis and characterization of some new derivatives of 2,4-dihydro-4-benzyl- 5(pyridyl)-3H-1,2,4-tiazole-3-thione; *Chemical Society of Pakistan*, **24** (2002) 269-274.

A. Mobinikhaledi, KH. Zamani, R. Iqubal and T. Tofighi

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19. Synthesis of some new substituted 2-(phenyl)-1,3- dimethyl- and -1,1,3,3-tetramethylguanidines; *Phosphorus, Sulfur, And Silicon And the Related Elements*, **178** (2003) 2235.

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23. Microwave Assisted Synthesis of Some fused Thiazolopyrimidines , *Phosphorus, Sulfur, And Silicon And the Related Elements*; **179** (2004) 1175-1180.

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N. Foroughifar, A. Mobinikhaledi, S. Ebrahimi, H. Moghannian, M. A. Bodaghifard and M. Kalhor

58. Synthesis of perimidines using copper nitrate as an efficient catalyst, *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Meta.l.* **39** (2009) 133-135.

A. Mobinikhaledi and P. J. Steel

59. Synthesis of some novel 5-(Arylidene)-2-imino-3-(pyridin-2-yl)thiazolidin-4-one derivatives, *Phosphorus, Sulfur, And Silicon And the Related Elements*; **184** (2009) 1837-1842.

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31. Behavior of some pyridine ligands coordinated to Co(III) in alkaline solution, 8th Iranian Seminar of Inorganic Chemistry, 24-26 August 2004, Azarbaijan University, Tabriz, Iran.

32. Synthesis of some new resocarenes using microwave heating methods. 11th Iranian Seminar of Organic Chemistry, 1-3 February (2005), Isfahan University of Technology, Isfahan, Iran.
33. Microwave assisted synthesis of some 2-Arylperimidines. 11th Iranian Seminar of Organic Chemistry, 1-3 February (2005), Isfahan University of Technology, Isfahan, Iran.
34. Synthesis of some fluorinated pyridines using tetrabutylammonium fluoride (TBAF). 11th Iranian Seminar of Organic Chemistry, 1-3 February (2005), Isfahan University of Technology, Isfahan, Iran.
35. Synthesis of 3,4-dihydropyrimidine-2(1H)ones using of Benzyltriethylammonium chloride, 12th Iranian Seminar of Organic Chemistry, 7-9 March (2006), Ahwaz Jundi Shapour University of Medical science, Ahwaz, Iran.
36. Synthesis of 4-methyl-1,2,3,9b-tetrahydro-5H-indeno(1,2-b)pyrimidine, 12th Iranian Seminar of Organic Chemistry, 7-9 March (2006), Ahwaz Jundi Shapour University of Medical science, Ahwaz, Iran.
37. Synthesis of 2-amino-4-methyl-6-aryl-6H-1,3-thiazine-5-carboxylic acid ethylester, 12th Iranian Seminar of Organic Chemistry, 7-9 March (2006), Ahwaz Jundi Shapour University of Medical science, Ahwaz, Iran.
38. New derivatives synthesis of resocarenes, 12th Iranian Seminar of Organic Chemistry, 7-9 March (2006), Ahwaz Jundi Shapour University of Medical science, Ahwaz, Iran
39. A convenient one-pot synthesis of 2-substituted benzimidazoles, 13th Iranian Seminar of Organic Chemistry, 7-9 September (2006), Bu Ali University, Hamadan, Iran
40. Synthesis of some benzimidazoles and benzimidazole-substituted benzotriazoles, 13th Iranian Seminar of Organic Chemistry, 7-9 September (2006), Bu Ali University, Hamadan, Iran
41. Synthesis of some substituted 2-aminothiophene carboxylates and related imines, 13th Iranian Seminar of Organic Chemistry, 7-9 September (2006), Bu Ali University, Hamadan, Iran
42. Synthesis of some pyrimidine derivatives using microwave irradiation, 13th Iranian Seminar of Organic Chemistry, 7-9 September (2006), Bu Ali University, Hamadan, Iran
43. Convenient acylation of pyrimidine derivatives using microwave irradiation, 13th Iranian Seminar of Organic Chemistry, 7-9 September (2006), Bu Ali University, Hamadan, Iran
44. Synthesis of 5-arylidene-3-(1,3-benzotriazol-2-yl)-2-imino-1,3-thiazolidine-4-ones, 13th Iranian Seminar of Organic Chemistry, 7-9 September (2006), Bu Ali University, Hamadan, Iran
45. Synthesis of hetero-resor[4]carenes, 13th Iranian Seminar of Organic Chemistry, 7-9 September (2006), Bu Ali University, Hamadan, Iran
46. Synthesis of 1-(2-amino-4-methyl-6-phenyl-6H-1,3-thiazine-5-yl)-1-ethanone, 13th Iranian Seminar of Organic Chemistry, 7-9 September (2006), Bu Ali University, Hamadan, Iran
47. Synthesis of 4-methyl-2H-indeno[1,2-b]pyrimidine-2,5(3H)dione, 13th Iranian Seminar of Organic Chemistry, 7-9 September (2006), Bu Ali University, Hamadan, Iran
48. One-pot Synthesis of Perimidines Using Zeolite as an Efficient Catalysts. 2th International Conference on Heterocyclic Chemistry. 16-19 December 2006, Department of Chemistry, University of Rajasthan, Jaipur, **India**.

49. Synthesis of 1,2,3,4-tetrahydropyrimidines using Y-Zeolite as a catalyst. 2th International Conference on Heterocyclic Chemistry. 16-19 December 2006, Department of Chemistry, University of Rajasthan, Jaipur, **India**.
50. Synthesis of 5-methylindenon [1,2,-E] [1,3]thiazolo[3,2-A]pyrimidine-2,6-(1H,10BH)-diones via an intermolecular Fridel-Crafts reaction. 2th International Conference on Heterocyclic Chemistry. 16-19 December 2006, Department of Chemistry, University of Rajasthan, Jaipur, **India**.
51. Synthesis of some new resocarene derivatives, 2th International Conference on Heterocyclic Chemistry. 16-19 December 2006, Department of Chemistry, University of Rajasthan, Jaipur, **India**.
52. Acid sites in conversion of acids to benzimidazoles with use of zeolites, Iran International Zeolite Conference (IIZC'08), 29 April-1May 2008, Tehran, Iran.
53. Synthesis of bicyclic thiazolopyrimidine derivatives using silica sulfuric acid as a heterogeneous catalyst, International catzlysis Conference (ICC 2008), 28-30 April 2008, Tehran, Iran.
54. Synthesis of polyhydroquinolines using silica sulfuric acids as a heterogeneous catalyst, International catzlysis Conference (ICC 2008), 28-30 April 2008, Tehran, Iran.
55. A new method for the preparation of 12-aryl-or 12-alkyl-8,9,10,12-tetrahydrobenzo[α]xanthen-11-one derivatives, 15th Iranian Seminar of Organic Chemistry, 27-29 Aug (2009), Razi University of Kermanshah, Iran.
56. Efficient synthesis of 2,3-dihydroquinazolin-4(1H)-ones using tetrabutylammonium bromide as a reusable catalyst. 15th Iranian Seminar of Organic Chemistry, 27-29 Aug (2009), Razi University of Kermanshah, Iran.
57. Synthesis of some new class of azathia macrocycles containing two thiazole rings as subunits. 15th Iranian Seminar of Organic Chemistry, 27-29 Aug (2009), Razi University of Kermanshah, Iran.
58. Synthesis of some novel class of macrocycles containing 1,3,4-thiadiazole rings as subunits. 15th Iranian Seminar of Organic Chemistry, 27-29 Aug (2009), Razi University of Kermanshah, Iran.
59. Synthesis of novel fused thiazolo pyrimidine. 15th Iranian Seminar of Organic Chemistry, 27-29 Aug (2009), Razi University of Kermanshah, Iran.
60. Synthesis of thiazolopyrimidine via the reaction of dimedone with thiourea and aromatic aldehydes. 15th Iranian Seminar of Organic Chemistry, 27-29 Aug (2009), Razi University of Kermanshah, Iran.
61. The synthesis of symmetrical of some novel 1,3,4-thiadiazoles and 1,2-,4-triazoles. 15th Iranian Seminar of Organic Chemistry, 27-29 Aug (2009), Razi University of Kermanshah, Iran.
62. Synthesis of a new class of lariat compounds containing 1,2,4-triazole rings as subunits. 16th Iranian Seminar of Organic Chemistry, 18-20 Aug (2009), Zanjan University, Zanjan, Iran.
63. Synthesis of new class of macrocycle compounds containing two 1,2,4-triazole rings as subunit. 16th Iranian Seminar of Organic Chemistry, 18-20 Aug (2009), Zanjan University, Zanjan, Iran.
64. An efficient convenient protocol for the synthesis of novel 1,2,4-triazolo[3,4-b]thiadiazines. 16th Iranian Seminar of Organic Chemistry, 18-20 Aug (2009), Zanjan University, Zanjan, Iran.
65. One-pot synthesis of 2,3-dihydroquinazolin-4(1H)ones catalyzed by TBAB. 16th Iranian Seminar of Organic Chemistry, 18-20 Aug (2009), Zanjan University, Zanjan, Iran.

66. Synthesis and fungicidal activity of some novel 2-benzimidazolylimino arylidene-4-thiazolidinones. 16th Iranian Seminar of Organic Chemistry, 18-20 Aug (2009), Zanjan University, Zanjan, Iran.
67. Synthesis and antimicrobial activity of some novel substituted 1,2,4-triazoles bearing 1,3,4-oxadiazoles or pyrazoles. 16th Iranian Seminar of Organic Chemistry, 18-20 Aug (2009), Zanjan University, Zanjan, Iran.
68. Efficient synthesis of 2-((1*H*-benzo[d]imidazole-2-ylamino)arylmethylthio)acetates catalyzed by copper nitrate. 16th Iranian Seminar of Organic Chemistry, 18-20 Aug (2009), Zanjan University, Zanjan, Iran.
69. Synthesis of some thiazolo and oxathiazolo pyrimidine derivatives. 17th Iranian Seminar of Organic Chemistry, 13-15 Oct (2010), Mazandaran University, Babolsar, Iran.
70. Synthesis of novel lariat ethers containing 1,3,4-thiadiazinane-6-carboxylate or 1,3,4-thiadiazinane-6-carboxamide. 17th Iranian Seminar of Organic Chemistry, 13-15 Oct (2010), Mazandaran University, Babolsar, Iran.
71. Synthesis of some thiazoloquin, azolinone derivatives via one-pot three component reaction. 17th Iranian Seminar of Organic Chemistry, 13-15 Oct (2010), Mazandaran University, Babolsar, Iran.
72. Synthesis, characterization and antimicrobial activities of some novel Bis-chalcones. 17th Iranian Seminar of Organic Chemistry, 13-15 Oct (2010), Mazandaran University, Babolsar, Iran.
73. Efficient Schiff bases synthesis of 2-aminobenzimidazole catalyzed by metal nitrates. 17th Iranian Seminar of Organic Chemistry, 13-15 Oct (2010), Mazandaran University, Babolsar, Iran.
74. Synthesis and biological activity of some oxo- and thioxopyrimidines. 17th Iranian Seminar of Organic Chemistry, 13-15 Oct (2010), Mazandaran University, Babolsar, Iran.
75. A novel efficient three-component, one-pot synthesis of thiazolidin-4-one. 15th Iranian Chemistry Congress, 13-15 ordibehesht (1390) Bu Ali University, Hamadan, Iran.
76. An efficient one-pot synthesis of polyhydroquinoline using NaY-Zeolite, the 3th Iran International zeolite conference. 4-6 June 2012, Arak University, Arak, Iran.
77. Natural eutectic saits catalyzed one-pot synthesis of 5-arylidene-2-imino-4-thiazolidones. 1th National Conference of Multi-Components Reaction. 30-31 May 2012, Kerman, Iran.
78. Catalyst-free synthesis of dihydropyrimidines from barbituric acid. 1th National Conference of Multi-Components Reaction. 30-31 May 2012, Kerman, Iran.
79. An efficient and green synthesis of benzimidazole derivatives in the presence of NI/ zeolite, 3-5 July 2013, Bu Ali University, Hamadan, Iran.
80. Synthesis, spectroscopy studies and NBOs analysis of 8-formyl-7hydroxy-4-methylcoumarin by Ab initio caleculations, 3-5 July 2013, Bu Ali University, Hamadan, Iran.
81. Synthesis of 2-amino-4H-chromene derivatives in the presence of reusable piperazine-functionalized Fe₃O₄/SiO₂ magnetic nanoparticles, 3-5 July 2013, Bu Ali University, Hamadan, Iran.
82. Synthesis of 1-amido or aminoalkyl-2-naphtholes in the presence of reusable sulfanilic acid-functionalized Fe₃O₄/SiO₂ magnetic nanoparticles, 13-15 March 2014, Ilam University, Ilam, Iran.

83. Synthesis and characterization of new magnetic poly(amide-imide) nanocomposites containing pendent dibenzoxanthene groups, 13-15 March 2014, Ilam University, Ilam, Iran.

84. بررسی مکانیسم واکنش سنتز شبه پنج جزئی مشتقات ۴ نیوپیران به روشی نوین

دومین کنفرانس بین المللی دستاوردهای نوین پژوهشی در شیمی و مهندسی شیمی-۱۶ اردیبهشت ۱۳۹۵-دانشگاه صنعتی امیر کبیر

85. Synthesis of some new benzimidazolyl thioxoacetamide derivatives, 17th European Symposium on Organic Chemistry (ESOC 2011) Crete, Greece.

86. A simple and rapid synthesis of 2-arylbenzimidazoles using transition metal nitrates as efficient catalyst, 17th European Symposium on Organic Chemistry (ESOC 2011) Crete, Greece.

راهنمایی و مشاوره دانشجویان

راهنمایی و مشاوره بیش از ۷۰ دانشجو در دوران دکتری و ارشد شیمی

افتخارات و..

- ۱- پژوهشگر برتر گروه شیمی ۱۳۷۹
- ۲- پژوهشگر برتر گروه شیمی ۱۳۸۱
- ۳- پژوهشگر برتر استان مرکزی ۱۳۹۰
- ۴- پژوهشگر برتر گروه شیمی دانشگاه اراک ۱۳۹۲
- ۵- پژوهشگر برتر گروه شیمی دانشگاه اراک ۱۳۹۳
- ۶- پژوهشگر برتر استان مرکزی ۱۳۹۶

Sabbatical Leave

15 June 2007 to 15 May 2008, Canterbury University, Christchurch, New Zealand

Books

1. Fundamentals of Organic Chemistry (1)
2. Stereoelectronic Effects (ترجمه)
3. Separation and Identification of Organic compounds
4. Writing Reaction Mechanisms in Organic Chemistry (ترجمه)

طرح های پژوهشی

- ۱- سنتز تعدادی از مشتقات جدید پیریمیدین ۱۳۸۴
- ۲- سنتز و شناسایی نانوذرات مغناطیسی عامل دار شده با سدیم پلی اسپاراتات: یک کاتالیست ناهمگن و قابل بازیافت مغناطیسی برای سنتز مشتقات ۲-آمینو کرومن ها در شرایط بدون حلال ۱۳۹۴
- ۳- تهیه و شناسایی کمپلکس جدید باز شیف مس محبوس شده در زئولیت Y: نانوکاتالیزوری موثر برای سنتز مشتقات بنزایمیدازول ۱۳۹۴
- ۴- تهیه و شناسایی نانوذرات هیبریدی آلی معدنی و کاربرد آنها در سنتز مشتقات فتالازین تری اون و دی هیدرو پیریمیدین و بررسی فعالیت بیولوژیکی آنها ۱۳۹۷