

## شناسنامه علمی:



### Personal Information:

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### Education:

**Ph. D. 1989 Organic Chemistry, (Polymer) Manchester University (UMIST),UK**

**M. Sc. 1977 Organic Chemistry, Pittsburgh State University, USA**

**B. Sc. 1975 Chemistry, Pittsburgh State University, USA**

### **Memberships:**

- Audit Committee of Bu-Ali Sina University 2005- 2016
- Iranian Chemistry and Chemical Engineering Society 1990- present
- Audit Committee of Arak University 2010-2015
- Audit Committee of University of Payam Noor Country 2010-2014
- Audit Committee of the University of the West Country 2005- 2011
- American Chemistry and Chemical Engineering Society 2005- present

### **Teaching and Research Positions:**

Professor 2000-Present Bu-Ali Sina University, Hamedan, Iran

Postdoctoral 1999-2000 Manchester University (UMIST), England

Associate Professor 1996-2000 Bu-Ali Sina University, Hamedan, Iran

Assistant Professor 1992-199 Bu-Ali Sina University, Hamedan, Iran

Assistant Professor 1989-1991 Shahid Chamran University, Ahvaz, Iran

Process engineer 1981-1983 Razi Petrochemical Co., Imam Khomeini Port, Iran

Instructor 1977-1981 Razi University, Kermanshah, Iran

### **افتخارات:**

- جزء دو درصد دانشمندان دانشگاه استنفورد امریکا در سالهای ۱۴۰۱-۱۴۰۰
- جزء یک درصد دانشمندان پر استناد براساس شاخص های پایگاه اساسی علمی ISI در سال ۱۳۹۹
- شیمیدان برجسته ی شیمی آلی ایران از طرف انجمن شیمی ایران در سال ۱۳۹۴
- شیمیدان برجسته کشوری از طرف انجمن شیمی و مهندسی شیمی ایران، ۱۳۹۴
- استاد نمونه آموزشی گروه شیمی آلی دانشگاه بوعلی سینا، ۱۳۹۴
- استاد نمونه پژوهشی گروه شیمی آلی دانشگاه بوعلی سینا ۱۳۸۸، ۱۳۸۲ و ۱۳۹۳

-استاد نمونه کشوری، ۱۳۸۵

-استاد نمونه آموزشی دانشگاه بوعلی سینا، ۱۳۸۰

#### سمت های اجرایی:

- رئیس دانشگاه دانشگاه پیام نور، همدان، ایران ۱۳۸۷-۱۳۹۳

- ریاست دانشگاه بوعلی سینا، همدان، ایران ۱۳۸۴-۱۳۸۷

- رئیس دانشگاه دانشگاه لرستان، خرم آباد، ایران ۱۳۷۳-۱۳۷۶

- معاونت دانشگاه بوعلی سینا، همدان، ایران ۱۳۷۳-۱۳۷۱

- رئیس گروه آموزشی گروه شیمی دانشگاه شهید چمران ۱۳۶۹-۱۳۷۰

#### دروس ارائه شده:

برای دانشجویان کارشناسی

- شیمی آلی ۱ و ۲ و ۳
- شیمی عمومی ۱ و ۲
- سنتز آلی
- جداسازی و شناسایی مواد آلی
- شیمی پلیمر
- اسپکتروسکوپی

برای دانشجویان کارشناسی ارشد:

- شیمی آلی پیشرفته
- شیمی هتروسیکل
- شیمی پلیمر
- سنتز شیمی آلی

برای دانشجویان دکتری:

- شیمی آلی پیشرفته
- واکنش های حدواسط

- هتروسیکل پیشرفته
- پلیمر پیشرفته

### تحقیقات مورد علاقه:

- معرف هایی از پلیمر برای هالوژناسیون ترکیبات آلی
- کاربرد نانولوله های تک و چندگانه در آزادسازی کنترل شده دارو
- سنتز مونومر و پلیمر آلی برای کاربرد در آزادسازی کنترل شده دارو
- برم دار کردن الکتروفیلی ترکیبات آلی
- تهیه و خواص مایع یونی

### تعداد دانشجویان (فارغ التحصیل شده)

تعداد دانشجویان در حال تحصیل: ۵ دانشجوی دکتری (هم اکنون/۱۴۰۲)

فارغ التحصیل مقطع دکتری: ۳۳

فارغ التحصیل مقطع کارشناسی ارشد: ۱۲۳

## PUBLICATIONS

### Books:

- Polymer chemistry and introduction (translate)
- Spectroscopy (translate)

## List of Journal Articles:

### 2023

1. Multi-Component Synthesis of Pyrido[2,3-d]Pyrimidines Catalyzed by Nano Magnetite Schiff Base Complex, S Esmaili, A Khazaei, AR Moosavi-Zare, *Polycyclic Aromatic Compounds*, **2023**, 43 (7), 6615-6626
2. Synthesis of hexahydroquinolines, 5-amino-1, 3-diphenyl-1 h-pyrazole-4-carbonitrile and 1-aminoalkyl-2-naphthols derivatives using an engineered copper-

- based nano-magnetic, A Gorji, T Akbarpour, A Khazaei, *Polycyclic Aromatic Compounds*, **2023**, 43 (6), 5041-5073
3. Novel Pyrano [3, 2-c] quinoline-1, 2, 3-triazole Hybrids as Potential Anti-Diabetic Agents: In Vitro  $\alpha$ -Glucosidase Inhibition, Kinetic, and Molecular Dynamics Simulation, S Esmaili, A Ebadi, A Khazaei, H Ghorbani, MA Faramarzi, S Mojtabavi, **2023**, *ACS Omega*
  4. Application of Zr-MOFs based copper complex in synthesis of pyrazolo[3, 4-b]pyridine-5-carbonitriles via anomeric-based oxidation, E Tavakoli, H Sepehrmansourie, M Zarei, MA Zolfigol, A Khazaei, **2023**, *Scientific Reports*, 13 (1), 9388
  5.  $[\text{Fe}_3\text{O}_4@ \text{CQD}@ \text{Si}(\text{OEt})(\text{CH}_2)_3\text{NH}@ \text{CC}@ \text{Ad}@ \text{SO}_3\text{H}]^+ \text{Cl}^-$ : As a new, efficient, magnetically separable and reusable heterogeneous solid acid catalyst for the synthesis of 5-amino-1, 3-diphenyl-1 H-pyrazole 4-carbonitril and pyrano [2, 3-c] pyrazole derivatives , E Ahmadi, A Khazaei, T Akbarpour, *Research on Chemical Intermediates*, **2023**, 49 (5), 2099-2122
  6. Synthesis of 4, 4'-(Aryl Methylene) Bis (3-Methyl-1 H-Pyrazol-5-ol) Derivatives and Pyrano [2, 3-c] Pyrazole Derivatives Using an Engineered Copper-Based Nano-Magnetic Catalyst ( $\text{Fe}_3\text{O}_4@ \text{SiO}_2/\text{Si}(\text{OEt})(\text{CH}_2)_3\text{NH}/\text{CC}/\text{EDA}/\text{Cu}(\text{OAc})_2$ ), A Ghanbarpour, A Khazaei, AR Moosavi-Zare, T Akbarpour, *Polycyclic Aromatic Compounds*, **2023**, 43 (4), 3192-3215
  7. Fabrication of Copper (II)-coated Magnetic Core-shell Nanoparticles an Engineered Nano-magnetic Catalyst for the Synthesis of Pyrano Pyrazole and Pyrazole Derivatives, M Soleimani, T Akbarpour, A Khazaei, *Polycyclic Aromatic Compounds*, **2023**, 1-27
  8. Preparation and characterization of Co (II) supported on modified magnetic  $\text{Fe}_3\text{O}_4$  nanoparticles and its application as catalyst for the synthesis of 2-amino-3-cyanopyridines, S Motahari, A Khazaei, *Polycyclic Aromatic Compounds*, **2023**, 43 (1), 945-956
  9. Preparation and catalytic application of 3-methyl-1-sulfonic acid imidazolium copper (II) trichloride for the synthesis of 1-( $\alpha$ -aminoalkyl)-2-naphthols, A Khazaei, AR Moosavi-Zare, H Goudarzi, M Tavasoli, *Polycyclic Aromatic Compounds*, **2023**, 43 (1), 456-470

## 2022

10. Synthesis of Novel Pyrimido[4,5-b] Quinolines Containing Benzyloxy and 1,2,3-Triazole Moieties by DABCO as a Basic Catalyst, S Esmaili, AR Moosavi-Zare, A Khazaei, Z Najafi, *ACS omega*, **2022**, 7 (49), 45314-45324

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12. Synthesis of pyrimidine-6-carbonitriles, pyrimidin-5-ones, and tetrahydroquinoline-3-carbonitriles by new superb oxovanadium (V)-[5, 10, 15, 20-tetrakis (pyridinium ...), M Dashteh, S Makhdoomi, S Baghery, MA Zolfigol, A Khazaei, Y Gu, *Scientific Reports*, **2022**, 12 (1), 19537
13. Application of New Magnetic Graphene Oxide-Porphyrin Nanoparticles for Synthesis of Pyridines and Pyrimidines via Anomeric-Based Oxidation, M Dashteh, S Baghery, MA Zolfigol, A Khazaei, M Khajevand, *Chemistry Select*, **2022**, 7 (38), e202202300
14. Selective One-pot Synthesis of 2-Aryl-1-arylmethyl-1H-1, 3-benzimidazoles in the Presence of Ammonium Persulfate and Their Antioxidant Activity, A Aminimanesh, A Khazaei, H Ahmadian, Z Vafajoo, *Organic Preparations and Procedures International*, **2022**, 54 (4), 299-305
15. Synthesis of pyrano [2, 3-c] pyrazole derivatives using a novel ionic-liquid based nano-magnetic catalyst ( $\text{Fe}_3\text{O}_4@ \text{SiO}_2@(\text{CH}_2)_3\text{NH}@ \text{CC}@ \text{Imidazole}@ \text{SO}_3\text{H}^+ \text{Cl}^-$ ), T Akbarpour, J Yousefi Seyf, A Khazaei, N Sarmasti, *Polycyclic Aromatic Compounds*, **2022**, 42 (6), 3844-3864
16. A Convenient Catalytic Method for the Synthesis of Pyridines with Henna and Pyrazole Moieties using Cooperative Vinylogous Anomeric-Based Oxidation, M Dashteh, J Afsar, S Baghery, MA Zolfigol, A Khazaei, AR Moosavi-Zare, *Chemistry select*, **2022**, 7 (23), e202200346
17. Synthesis of magnetic nanoparticles  $\text{Fe}_3\text{O}_4@ \text{CQD}@ \text{Si}(\text{OEt})(\text{CH}_2)_3@ \text{melamine}@ \text{TC}@ \text{Ni}(\text{NO}_3)$  with application in the synthesis of 2-amino-3-cyanopyridine and pyrano [2, 3-c] pyrazole derivatives, M Solgi, A Khazaei, T Akbarpour, *Research on Chemical Intermediates*, **2022**, 48 (6), 2443-2468
18.  $\text{Fe}_3\text{O}_4@ \text{SiO}_2@ \text{Methotrexate}$  as efficient and nanomagnetic catalyst for the synthesis of 9-(aryl) thiazolo [4, 5-d][1, 2, 4] triazolo [1, 5-a] pyrimidin-2 (3H)-ones via a cooperative anomeric based oxidation: A joint experimental and computational mechanistic study, M Dashteh, S Baghery, A Khazaei, MA Zolfigol, Z Ahmadvand, M Bayat, *Journal of Molecular Structure*, **2022**, 1250, 131769
19. [Msim]CuCl<sub>3</sub>: as an efficient catalyst for the preparation of 5-amino-1H-pyrazole-4-carbonitriles by anomeric based oxidation, A Khazaei, AR Moosavi-Zare, H Goudarzi, M Tavasoli, *Zeitschrift für Naturforschung B*, **2022**, 77 (1), 87-93
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- E Tavakoli, H Sepehrmansourie, M Zarei, MA Zolfigol, A Khazaei, **2022**, 46 (39), 19054-19061
21. Silica sulfuric acid coated on SnFe<sub>2</sub>O<sub>4</sub> MNPs: synthesis, characterization and catalytic applications in the synthesis of polyhydroquinolines, S Esmaili, A Khazaei, A Ghorbani-Choghamarani, M Mohammadi, *RSC Advances*, **2022**, 12 (23), 14397-14410
22. Nano-[Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub>/N-propyl-1-(thiophen-2-yl) ethanimine][ZnCl<sub>2</sub>] as a nano magnetite Schiff base complex and heterogeneous catalyst for the synthesis of pyrimido[4,5-b]quinolones, S. Esmaili, A. R. Moosavi-Zare, A. Khazaei, *RSC Advances*, **2022**, 12, 5386–5394.
23. Application of novel metal–organic framework [Zr-UiO-66-PDC-SO<sub>3</sub>H] FeCl<sub>4</sub> in the synthesis of dihydrobenzo [g] pyrimido [4, 5-b] quinoline derivatives, F Jalili, M Zarei, MA Zolfigol, A Khazaei, *RSC advances*, **2022**, 12 (15), 9058-9068
24. Inhibition of Methamphetamine-Induced Cytotoxicity in the U87-Cell Line by Atorvastatin-Conjugated Carbon Nanotubes, S Nikeafshar, A Khazaei, R Tahvilian, *Applied Biochemistry and Biotechnology*, **2022**, 1-25
25. Design and synthesis of nickel tetra-2, 3-pyridiniumporphyrinato trinitromethanide as an influential catalyst and its application in the synthesis of 1, 2, 4-triazolo based compounds, M Dashteh, S Baghery, MA Zolfigol, A Khazaei, S Makhdoomi, M Safaiee, *Journal of Physics and Chemistry of Solids*, **2022**, 160, 110322

## 2021

26. Application of polyionic magnetic nanoparticles as a catalyst for the synthesis of carbonitriles with both indole and triazole moieties via a cooperative geminal-vinylogous anomeric-based oxidation, M Dashteh, S Baghery, MA Zolfigol, A Khazaei, *Molecular Diversity*, **2021**, 1-20
27. Synthesis of 1-aminoalkyl-2-naphthols derivatives using an engineered copper-based nanomagnetic catalyst (Fe<sub>3</sub>O<sub>4</sub>@ CQD@ Si (OEt)(CH<sub>2</sub>)<sub>3</sub>NH@ CC@ N<sub>3</sub>@ phenylacetylene@ Cu), T Akbarpour, A Khazaei, J Yousefi Seyf, N Sarmasti, *Applied Organometallic Chemistry*, **2021**, 35 (10), e6361
28. Synthesis of Magnetic Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub>@Si(CH<sub>2</sub>)<sub>3</sub>@N-Ligand@Co with Application in the Synthesis of 1,2,4,5-Substituted Imidazole Derivatives, M Mahmoudiani

- Gilan, A Khazaei, J Yousefi Seyf, N Sarmasti, H Keypour, *Polycyclic Aromatic Compounds*, **2021**, 41 (6), 1200-1211
29. Novel pseudopolymeric magnetic nanoparticles as a hydrogen bond catalyst for the synthesis of tetrahydrodipyrzolo-pyridine derivatives under mild reaction conditions, M Dashteh, M Yarie, MA Zolfigol, A Khazaei, S Makhdoomi, *Applied Organometallic Chemistry*, **2021**, 35 (6), e6222
30. Utilization of eggshell waste as green catalyst for application in the synthesis of 1, 2, 4, 5-tetra-substituted imidazole derivatives, M Mahmoudiani Gilan, A Khazaei, N Sarmasti, *Research on Chemical Intermediates*, **2021**, 47, 2173-2188
31. Synthesis and characterization of  $[\text{Fe}_3\text{O}_4@ \text{CQDs}@ \text{Si}(\text{CH}_2)_3\text{NH}_2@ \text{CC}@ \text{EDA}@ \text{SO}_3\text{H}]^+ \text{Cl}^-$  and  $\text{Fe}_3\text{O}_4@ \text{CQDs}@ \text{Si}(\text{CH}_2)_3\text{NH}_2@ \text{CC}@ \text{EDA}@ \text{Cu}$  nanocatalysts and their application in the synthesis of 5-amino-1, 3-diphenyl-1H-pyrazole-4-carbonitrile and 1-(morpholino (phenyl) methyl) naphthalen-2-ol derivatives, N Sarmasti, JY Seyf, A Khazaei, *Arabian Journal of Chemistry*, **2021**, 14 (3), 103026
32. Grafting drugs to functionalized single-wall carbon nanotubes as a potential method for drug delivery, M Heidarian, A Khazaei, *J Saien, Physical Chemistry Research*, **2021**, 9 (1), 57-68
33. Synthesis of sulfonated melamine-functionalized  $\text{Fe}_3\text{O}_4@ \text{SiO}_2@ \text{Si}-(\text{CH}_2)_3@ \text{melamine}$  nanoparticles and its application in the synthesis of 4,4'-(aryl methylene)bis(3-methyl-1H-pyrazol-5-ol)s and hexahydroquinolines, M Soleimani, A Khazaei, N Sarmasti, T Akbarpour, *Journal of the Iranian Chemical Society*, **2021**, 1-15

## 2020

34. One-pot synthesis of 2-amino-3-cyanopyridines and hexahydroquinolines using eggshell-based nano-magnetic solid acid catalyst via anomeric-based oxidation, T Akbarpour, A Khazaei, JY Seyf, N Sarmasti, MM Gilan, *Research on Chemical Intermediates*, **2020**, 46, 1539-1554
35. Synthesis and application of melamine-based nano catalyst with phosphonic acid tags in the synthesis of (3-indolyl) pyrazolo [3, 4-b] pyridines via vinylogous anomeric based oxidation, J Afsar, MA Zolfigol, A Khazaei, M Zarei, Y Gu, DA Alonso, A Khoshnood, *Molecular Catalysis*, **2020**, 482, 110666
36. Evaluation of yield of promising dual purpose grain-forage sorghum lines [*Sorghum bicolor* L. Moench] using drought tolerance indices, A Khazaei, *IRANIAN JOURNAL OF CROP SCIENCES*, **2020**, 22 (3), 275-290
37. GENOTYPE× ENVIRONMENT INTERACTION AND GRAIN AND FORAGE YIELD STABILITY OF PROMISING LINES OF DUAL-PURPOSE SORGHUM,



A Khazaei, MR Shiri, M Torabi, A Ghasemi, AR Beheshti, NA AZARI, *SEED AND PLANT*, **2020**, 36 (1), 51-70

38. Synthesis of cobalt tetra-2, 3-pyridiniumporphyrinato with sulfonic acid tags as an efficient catalyst and its application for the synthesis of bicyclic ortho-aminocarbonitriles, cyclohexa-1, 3-dienamines and 2-amino-3-cyanopyridines, M Dashteh, MA Zolfigol, A Khazaei, S Baghery, M Yarie, S Makhdoomi, ..., *RSC advances*, **2020**, 10 (46), 27824-27834
39. Fe<sub>3</sub>O<sub>4</sub> bonded Pyridinium-3-carboxylic acid-N-sulfonic acid chloride as an efficient catalyst for the synthesis of 3, 4-dihydropyrimidin-2 (1H)-ones, A Khazaei, F Gohari-Ghalil, M Tavasoli, M Rezaei-Gohar, *Chem. Methodol*, **2020**, 4 (5), 543-553
40. Anchoring N-Halo (sodium dichloroisocyanurate) on the nano-Fe<sub>3</sub>O<sub>4</sub> surface as “chlorine reservoir”: Antibacterial properties and wastewater treatment, A Khazaei, N Sarmasti, JY Seyf, Z Merati, *Arabian Journal of Chemistry*, **2020**, 13 (1), 2219-2232

## 2019

41. Targeted development of sustainable green catalysts for oxidation of alcohols via tungstate-decorated multifunctional amphiphilic carbon quantum dots, M Mohammadi, A Rezaei, A Khazaei, S Xuwei, Z Huajun, *ACS applied materials & interfaces*, **2019**, 11 (36), 33194-33206
42. High density sulfonated magnetic carbon quantum dots as a photo enhanced, photo-induced proton generation, and photo switchable solid acid catalyst for room temperature one-pot reaction, N Sarmasti, A Khazaei, J Yousefi Seyf, *Research on Chemical Intermediates*, **2019**, 45, 3929-3942 7
43. Catalytic application of 3-methyl-1-sulfonic acid imidazolium tetrachloroferrate as nanostructured catalyst on the cross-aldol condensation reaction of cycloalkanones with aldehyde, A Khazaei, AR Moosavi-Zare, S Firoozmand, *Iranian chemical communication*, **2019**, 7 (3, pp. 160-229, Serial No. 24), 206-213
44. Preparation of Magnetic Cu (II) Nano-structure (Based on Nano-Fe<sub>3</sub>O<sub>4</sub>) and Application to the Synthesis of Hexahydroquinoline Derivatives, SA Salem, A Khazaei, JY Seyf, N Sarmasti, MM Gilan, *Polycyclic Aromatic Compounds*, **2019**.
45. A novel nano perfluoro ionic liquid as an efficient catalyst in the synthesis of chromenes under mild and solvent-free conditions, Afsar, A Khazaei, MA Zolfigol, *Iranian Journal of Catalysis*, 9 (1), 37-49

46. Ionic-Liquid-Modified Carbon Quantum Dots as a Support for the Immobilization of Tungstate Ions ( $\text{WO}_4^{2-}$ ): Heterogeneous Nanocatalysts for the Oxidation of alcohols in water, M Mohammadi, A Khazaei, A Rezaei, Z Huajun, S Xuwei, *ACS Sustainable Chemistry & Engineering*, **2019**, 7 (5), 5283-5291
47. Synthesis of Novel Nanomagnetic Catalyst with Acetic Acid Tags: Application in the Synthesis of New Amidoalkyl Phenols under Solvent-Free Condition, J Afsar, A Khazaei, M Zarei, MA Zolfigol, *ChemistrySelect*, **2019**, 4 (4), 1122-1126

## **2018**

48. Synthesis and application of a novel nanomagnetic catalyst with Cl[DABCO- $\text{NO}_2$ ]C( $\text{NO}_2$ )<sub>3</sub> tags in the preparation of pyrazolo[3,4-b]pyridines via anomeric based oxidation, J Afsar, MA Zolfigol, A Khazaei, DA Alonso, A Khoshnood, Y Bayat, *Research on Chemical Intermediates*, **2018**, 44, 7595-7618
49. Three-component condensation reaction of various aldehydes, dimedone and malononitrile catalyzed by boric acid in water in comparison with multifunctional ionic liquids as green catalytic systems, A Khazaei, HAA Nik, AR Moosavi-Zare, H Afshar-Hezarkhani, *Zeitschrift für Naturforschung, B*, **2018**, 73 (10), 707-712
50.  $[\text{Fe}_3\text{O}_4@\text{SiO}_2@(\text{CH}_2)_3\text{im}] \text{C}_6\text{F}_5\text{O}$  as a New Hydrophilic and Task-Specific Nanomagnetic Catalyst: Application for Synthesis of  $\beta$ -Azido Alcohols and Thiiranes under Mild and Green Conditions, J Afsar, MA Zolfigol, A Khazaei, *ChemistrySelect*, **2018**, 3 (39), 11134-11140
51. Fabrication, identification and application of  $\text{Fe}_3\text{O}_4$  bonded nicotinic acid-sulfonic acid chloride as a retrievable magnetic nanostructured catalyst for the one-pot synthesis of 1-carbamato-alkyl-2-naphthols, A Khazaei, M Tavasoli, AR Moosavi-Zare, *Research on Chemical Intermediates*, **2018**, 44, 5893-5910
52. Anchoring high density sulfonic acid based ionic liquid on the magnetic nano-magnetite ( $\text{Fe}_3\text{O}_4$ ), application to the synthesis of hexahydroquinoline derivatives, A Khazaei, N Sarmasti, JY Seyf, *Journal of Molecular Liquids*, **2018**, 262, 484-494
53. Preparation and characterization of Cu (II) supported on poly(8-hydroxyquinoline-p-styrene sulphonate) and its application as catalyst for the synthesis of Hexahydroquinolines, A Khazaei, M Tavasoli, V Jamshidi, FG Ghalil, AR Moosavi-Zare, *Applied Organometallic Chemistry*, **2018**, 32 (7), e4368
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55. Synthesis of Indolo[3,2-b]carbazoles via an Anomeric-Based Oxidation Process: A Combined Experimental and Computational Strategy, MA Zolfigol, A Khazaei, F Karimitabar, M Hamidi, F Maleki, B Aghabarari , *Journal of Heterocyclic Chemistry*, **2018**, 55 (4), 1061-1068
56. Ultrasound assisted oxidation of various alcohols to corresponding aldehydes by using Al<sub>2</sub>O<sub>3</sub> as catalyst, S Rahmati, A Khazaei, M Golbaghi, M Panahimehr, *Iranian chemical communication*, **2018**, 6 (2, pp. 109-217, Serial No. 19), 109-113
57. Magnetic-based picolinaldehyde–melamine copper complex for the one-pot synthesis of hexahydroquinolines via Hantzsch four-component reactions, A Khazaei, M Mahmoudiani Gilan, N Sarmasti, *Applied Organometallic Chemistry*, **2018**, 32 (3), e4151
58. Synthesis, characterization and application of 3-methyl-1-sulfonic acid imidazolium tetrachloroferrate as nanostructured catalyst for the tandem reaction of  $\beta$ -naphthol with aromatic aldehydes and amide derivatives, A Khazaei, AR Moosavi-Zare, S Firoozmand, MR Khodadadian, *Applied Organometallic Chemistry*, **2018**, 32 (2), e4058
59. Synthesis of nanomagnetic supported thiourea–copper (I) catalyst and its application in the synthesis of triazoles and benzamides, L Mohammadi, MA Zolfigol, A Khazaei, M Yarie, S Ansari, S Azizian... *Applied Organometallic Chemistry*, **2018**, 32 (1), e3933

## 2017

60. Synthesis, characterization and application of nano-CoAl<sub>2</sub>O<sub>4</sub> as an efficient catalyst in the preparation of hexahydroquinolines, A Khazaei, L Jafari-Ghalebabakhani, E Ghaderi, M Tavasol , *Applied Organometallic Chemistry*, **2017**, 31 (12), e3815
61. Nano-Fe<sub>3</sub>O<sub>4</sub>@ SiO<sub>2</sub> supported Pd (0) as a magnetically recoverable nanocatalyst for Suzuki coupling reaction in the presence of waste eggshell as low-cost natural base, A Khazaei, M Khazaei, M Nasrollahzadeh, *Tetrahedron*, **2017**, 73 (38), 5624-5633
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