

## CURRICULUM VITAE



### Personal profile

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### Educational Qualification

- Ph.D. (Organic Chemistry) 1990-1994  
Liebig University, Giessen, Germany
- M.Sc. (Organic Chemistry) 1987-1989  
University of Tehran, Tehran, Iran
- B.Sc. (Pure Chemistry) 1983-1987  
kharazmi University (Pars Collage)

## Language

- Persian (Native)
- English
- Germany

## Honors & Awards

- Alexander Humboldt scholarship
- Volkswagen Stiftung,
- DAAD Stiftung
- Best teacher Supervisor in Tarbiat Modares University

## Publications

- Molecular docking and DFT studies of a series of tetrazole derivatives and computational studies of Fe<sub>3</sub>O<sub>4</sub>@ Phenyl phosphate creatine 2021  
F Pazoki, R Esfandiarpour, F Mohsenzadeh, F Mohammadpanah, ...  
Journal of Molecular Structure 1238, 130389
- The Synthesis and Characterization of Fe<sub>2</sub>O<sub>3</sub>@ SiO<sub>2</sub>-SO<sub>3</sub>H Nanofibers as a Novel Magnetic Core-shell Catalyst for Formamidine and Formamide Synthesis 2021  
H Ziyadi, M Baghali, A Heydari  
Heliyon, e07165
- Correction: g-C<sub>3</sub>N<sub>4</sub>@ Ce-MOF Z-scheme heterojunction photocatalyzed cascade aerobic oxidative functionalization of styrene 2021  
M Karimi, S Sadeghi, RG Gavinehroudi, H Mohebbali, A Mahjoub, ...  
New Journal of Chemistry
- g-C<sub>3</sub>N<sub>4</sub>@ Ce-MOF Z-scheme heterojunction photocatalyzed cascade aerobic oxidative functionalization of styrene 2021  
M Karimia, S Sadeghia, RG Gavinehroudi, H Mohebbali, A Mahjoub, ...  
New Journal of Chemistry 45 (15), 6671-6681
- A sustainable approach for efficient one-pot synthesis of 1-aryl-1,2,3-triazoles using copper iodide supported on 3-thionicotinyl-urea-modified magnetic nanoparticles in DES 2021  
S Mirshafiee, A Salamatmanesh, A Heydari  
Applied Organometallic Chemistry, e6255
- Additive-free aerobic CH oxidation through a defect-engineered Ce-MOF catalytic system 2021  
M Karimi, H Mohebbali, S Sadeghi, V Safarifard, A Mahjoub, A Heydari  
Microporous and Mesoporous Materials, 111054

- disulfide trapping process: Applied for green, one-pot, and efficient synthesis of 2, 3 ...  
 FM Metkazini, Z Khorsandi, A Heydari  
 Molecular Catalysis 506, 111532
- Ultrasonic Synthesis and Characterization of Organic–Inorganic Nafion/Layered Double Hydroxide Nanohybrids and the Application in Ritter Reaction 2021  
 F Pazoki, M Shamsayei, S Bagheri, A Heydari  
 Journal of Inorganic and Organometallic Polymers and Materials 31 (4), 1451-1460
- Pd<sup>II</sup> Dispersed on Magnetic Partially Reduced GO/OMWCNT Non- Covalently Modified with a Vic- Dioxime: An Efficient and Magnetically Retrievable Catalyst for ... 2021  
 M Shariatipour, A Heydari  
 ChemistrySelect 6 (5), 1107-1117
- Efficient strategy for interchangeable roles in a green and sustainable redox catalytic system: IL/Pd II-decorated SBA-15 as a mesoporous nanocatalyst S Sadeghi, M Karimi, I Radfar, RG Gavinehroudi, D Saberi, A Heydari 2021  
 New Journal of Chemistry 45 (15), 6682-6692
- Magnetic acyclovir-copper nanoparticle: DFT study and application as an efficient, magnetically separable and recyclable catalyst for N-arylation of amines under green condition 2020  
 F Pazoki, A Heydari  
 Inorganic Chemistry Communications 122, 108240
- Iron tungstate ceramic nanofibres fabricated using the electrospinning method N Ghasemi, H Ziyadi, M Baghali, A Heydari 2020  
 Bulletin of Materials Science 43 (1), 1-8
- 1, 4-Diazabicyclo [2.2. 2] octane-sulfonic acid immobilized on magnetic Fe<sub>3</sub> O<sub>4</sub>@ SiO<sub>2</sub> nanoparticles: a novel and recyclable catalyst for the one-pot synthesis of 4-aryl-NH-1 ... 2020  
 MJ Nejad, F Pazoki, S Bagheri, E Yazdani, A Heydari  
 Journal of Chemical Sciences 132 (1), 1-10
- Diphenyl phosphate creatine immobilized on magnetite nanoparticles: an efficient and recyclable catalyst for Aza-Michael reaction 2020  
 F Pazoki, F Mohammadpanah, AS Manesh, JA Mehraban, A Heydari  
 Journal of Chemical Sciences 132 (1), 1-10

- Magnetic  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>@ Cu-LDH intercalated with Palladium Cysteine: An efficient dual nano catalyst in tandem CN coupling and cyclization progress of synthesis quinolines 2020  
N Esfandiary, S Bagheri, A Heydari  
Applied Clay Science 198, 105841
- Synthesis of acetamides via oxidative C–C bond cleavage of ketones catalyzed by Cu- immobilized magnetic nanoparticles 2020  
E Yazdani, F Pazoki, A Salamatmanesh, MJ Nejad, MK Miraki, A Heydari  
Applied Organometallic Chemistry 34 (10), e5855
- Acceptorless dehydrogenative oxidation of primary alcohols to carboxylic acids and reduction of nitroarenes via hydrogen borrowing catalyzed by a novel nanomagnetic silver catalyst 2020  
E Yazdani, A Heydari  
Journal of Organometallic Chemistry 924, 121453
- BiPO<sub>4</sub> decorated with Ni–Fe layered double hydroxide as a highly efficient and reusable heterogeneous catalyst for aldol condensation in green solvent 2020  
F Pazoki, S Bagheri, M Shamsayei, MJ Nejad, A Heydari  
Materials Chemistry and Physics 253, 123327
- Fe<sub>2</sub>O<sub>3</sub>@[proline]–CuMgAl–LDH: A magnetic bifunctional copper and organocatalyst system for one- pot synthesis of quinolines and 2*H*- indazoles in green media 2020  
N Esfandiary, A Heydari  
Applied Organometallic Chemistry 34 (9), e5760
- Ultrasonic Synthesis and Characterization of 2D and 3D Metal–Organic Frameworks and Their Application in the Oxidative Amidation Reaction 2020  
S Bagheri, F Pazoki, A Heydari  
ACS omega 5 (34), 21412-21419
- Silver chloride supported on Vitamin B<sub>1</sub> - Organometallic magnetic catalyst: synthesis, density functional theory study and application in A<sup>3</sup>- coupling reactions 2020  
N Esfandiary, F Pazoki, A Nakisa, K Azizi, I Radfar, A Heydari  
Applied Organometallic Chemistry 34 (8), e5725
- Synthesis and characterization of Pd(II)–vitamin B<sub>6</sub> complex supported on magnetic nanoparticle as an efficient and recyclable catalyst system for C–N cross ... 2020  
S Bagheri, F Pazoki, N Esfandiary, MM Fadaei, A Heydari  
Applied Organometallic Chemistry 34 (8), e5723

- Functionalized Magnetic Nano-particles  
A Kazemi, N Bahramifar, A Heydari  
Journal of Environmental Science and Technology 22 (5), 391-401
- Inspection of Thermodynamic Behaviors in Binary Mixtures of a Double Chain Ionic Liquid Crystal with a Thermotropic Liquid Crystal 2020  
N Dalir, S Javadian, M Karimi, A Heydari  
Journal of Chemical & Engineering Data 65 (7), 3605-3612
- Stabilizing Pd on magnetic phosphine-functionalized cellulose: DFT study and catalytic performance under deep eutectic solvent assisted conditions 2020  
A Salamatmanesh, A Heydari, HT Nahzomi  
Carbohydrate polymers 235, 115947
- Modulation of the competition between renaturation and aggregation of lysozyme by additive mixtures 2020  
Z Takaloo, F Niknaddaf, SS Shahangian, A Heydari, S Hosseinkhani, ...  
Biotechnology and applied biochemistry 67 (3), 330-342
- Tandem Oxidative Pudovik Reaction Using Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub>- Metformin- Cu (II) as an Efficient and Recoverable Catalyst 2020  
S Babazadeh, M Kazemi Miraki, F Pazoki, A Heydari  
ChemistrySelect 5 (14), 4263-4266
- Copper (II) immobilized on magnetically separable l-arginine-β-cyclodextrin ligand system as a robust and green catalyst for direct oxidation of primary alcohols and benzyl ... 2020  
MJ Nejad, A Salamatmanesh, A Heydari  
Journal of Organometallic Chemistry 911, 121128
- Synthesis and Characterization of Copper (I)- Cysteine Complex Supported on Magnetic Layered Double Hydroxide as an Efficient and Recyclable Catalyst System for Click Chemistry ... 2020  
F Pazoki, A Salamatmanesh, S Bagheri, A Heydari  
Catalysis Letters 150 (4), 1186-1195
- MnO<sub>2</sub>@ Mg-Al layered double hydroxide Nanosheets: A sustainable and recyclable photocatalyst toward oxidation of benzyl alcohol 2020  
F Pazoki, M Shamsayei, S Bagheri, E Yazdani, A Heydari  
Applied Clay Science 187, 105494
- Copper(I)-creatine complex on magnetic nanoparticles as a green catalyst for *N*- and *O*- arylation in deep eutectic solvent 2020

- Applied Organometallic Chemistry 34 (3), e5447
- Imidazole-aryl coupling reaction via CH bond activation catalyzed by palladium supported on modified magnetic reduced graphene oxide in alkaline deep eutectic solvent 2020  
M Shariatipour, A Salamatmanesh, MJ Nejad, A Heydari  
Catalysis Communications 135, 105890
- N-Heterocyclic carbene (NHC)-catalyzed oxidative [3+ 2] annulation of dioxindoles and enals: mechanism, role of NHC, role of a mixture of bases with different strength, and ... 2020  
E Hosseinzadeh, A Heydari  
Physical Chemistry Chemical Physics 22 (48), 28269-28276
- Oxidative amidation by Cu (ii)-guanidine acetic acid immobilized on magnetized sawdust with eggshell as a natural base 2020  
A Darvishi, MK Miraki, M Arefi, A Heydari  
New Journal of Chemistry 44 (27), 11777-11785
- Preparation of ceramic nanofibers of iron vanadate using electrospinning method 2019  
Y Khaksarfard, H Ziyadi, A Heydari  
Materials Science-Poland 37 (4), 645-651
- Folic Acid Functionalized Magnetic Nanoparticles as Green and Magnetic Recyclable Catalyst for the Synthesis of 4- Aryl- NH- 1, 2, 3- triazoles in a Green Media 2019  
S Bagheri, MJ Nejad, F Pazoki, MK Miraki, A Heydari  
ChemistrySelect 4 (40), 11930-11935
- A green synthesis of nitrones in glycerol 2019  
M Shariatipour, M Jadidinejad, A Heydari  
Journal of Chemical Sciences 131 (10), 1-7
- Quantifying water stress in canola (*Brassica napus* L.) using crop water stress index 2019  
A Heydari, E Bijanzadeh, R Naderi, Y Emam  
Iran Agricultural Research 38 (1), 1-8
- Ultrasonic assisted adsorptive removal of toxic heavy metals from environmental samples using functionalized silica-coated magnetic multiwall carbon nanotubes (MagMWCNTs@ SiO<sub>2</sub>) 2019  
E Ghasemi, A Heydari, M Sillanpää  
Engineering in Agriculture, Environment and Food 12 (4), 435-442

- magnetic nanoparticles separately and in combination on aquaculture wastewater treatment  
H Nezhadheydari, KR Tavabe, A Mirvaghefi, A Heydari, M Frinsko  
Environmental Technology & Innovation 15, 100414
- Tungstate-supported silica-coated magnetite nanoparticles: a novel magnetically recoverable nanocatalyst for green synthesis of nitroso arenes  
MJ Nejad, E Yazdani, MK Miraki, A Heydari  
Chemical Papers 73 (7), 1575-1583 2019
- Central composite design for optimization of removal of trace amounts of toxic heavy metal ions from aqueous solution using magnetic Fe<sub>3</sub>O<sub>4</sub> functionalized by guanidine acetic ...  
E Ghasemi, A Heydari, M Sillanpää  
Microchemical Journal 147, 133-141 2019
- Oxidative amidation of benzyl alcohol, benzaldehyde, benzoic acid styrene and phenyl acetylene catalyzed by ordered mesoporous HKUST-1-Cu: Effect of surface area on oxidative ...  
H Mohebali, AR Mahjoub, M Karimi, A Heydari  
Applied Organometallic Chemistry 33 (5), e4822 2019
- A magnetically recoverable copper–salen complex as a nano-catalytic system for amine protection via acetylation using thioacetic acid  
E Yazdani, MK Miraki, A Salamatmanesh, J Azarnia, K Azizi, L Ghandi, ...  
Research on Chemical Intermediates 45 (4), 1775-1793 2019
- Aza- Michael addition of 5- substituted tetrazole catalysed by a novel nanoparticle solid base catalyst involving a layered zinc hydroxide supported on a ferrite core  
F Pazoki, JA Mehraban, M Shamsayei, B Bakhshi, R Esfandiarpour, ...  
ChemistrySelect 4 (9), 2568-2575 2019
- Synthesis and sustainable assessment of thiol-functionalization of magnetic graphene oxide and superparamagnetic Fe<sub>3</sub>O<sub>4</sub>@ SiO<sub>2</sub> for Hg (II) removal from aqueous solution and ...  
A Kazemi, N Bahramifar, A Heydari, SI Olsen  
Journal of the Taiwan Institute of Chemical Engineers 95, 78-93 2019
- Citric acid stabilized on the surface of magnetic nanoparticles as an efficient and recyclable catalyst for transamidation of carboxamides, phthalimide, urea and thiourea with ...  
M Arefi, MK Miraki, R Mostafalu, M Satari, A Heydari 2019



- Analysis the role of women's participation in the safety of urban spaces using Strategic planning approach 2019  
A Heydari  
Journal of Advanced Pharmacy Education & Research| Apr-Jun 9 (S2), 95
- Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub> copper sucrose xanthate as a green nanocatalyst for N, O and S arylation 2019  
I Radfar, M Kazemi Miraki, N Esfandiary, L Ghandi, A Heydari  
Applied Organometallic Chemistry 33 (1), e4619
- A unique combination of KI/ZnFe<sub>2</sub>O<sub>4</sub> as a catalyst for oxidative Strecker reaction 2019  
L Ghandi, M Kazemi Miraki, M Karimi, I Radfar, A Heydari  
Applied Organometallic Chemistry 33 (1), e4616
- Copper- vitamin B<sub>6</sub> coated on maghemite nanoparticles: A new convenient dual catalysis system to synthesize α- aminonitriles from benzyl alcohols 2018  
N Esfandiary, A Nakisa, I Radfar, K Azizi, JA Mehraban, A Heydari  
Applied Organometallic Chemistry 32 (12), e4589
- Magnetic Nanoparticle-Supported Cu–NHC Complex as an Efficient and Recoverable Catalyst for Nitrile Hydration 2018  
MK Miraki, M Arefi, A Salamatmanesh, E Yazdani, A Heydari  
Catalysis Letters 148 (11), 3378-3388
- Deep Eutectic Solvents as a New Generation of Chemical Chaperones 2018  
F Niknaddaf, SS Shahangian, A Heydari, S Hosseinkhani, RH Sajedi  
ChemistrySelect 3 (38), 10603-10607
- Copper (I)–caffeine complex immobilized on silica-coated magnetite nanoparticles: a recyclable and eco-friendly catalyst for click chemistry from organic halides and epoxides 2018  
A Salamatmanesh, MK Miraki, E Yazdani, A Heydari  
Catalysis Letters 148 (10), 3257-3268
- Formic acid catalyzed one-pot synthesis of α-aminophosphonates: an efficient, inexpensive and environmental friendly organocatalyst 2018  
JA Mehraban, MS Jalali, A Heydari  
Chemical Papers 72 (9), 2215-2223
- Architected Fe<sub>3</sub>Pd<sub>2</sub>(OH)<sub>2</sub>[picolinic acid]<sub>8</sub>(H<sub>2</sub>O)<sub>4</sub> Hybrid Nanorods: A Remarkably Reusable and Robust Heterogeneous Catalyst for Suzuki–Miyaura and ... 2018  
H Asiabi, Y Yamini, M Shamsayei, M Kazemi Miraki, A Heydari  
ACS Sustainable Chemistry & Engineering 6 (10), 12612-12620

- BF<sub>3</sub> grafted Fe<sub>3</sub>O<sub>4</sub>@Sucrose nanoparticles as a highly efficient acid catalyst for syntheses of Dihydroquinazolinones (DHQZs) and Bis 3- Indolyl Methanes (BIMs) 2018  
I Radfar, MK Miraki, L Ghandi, N Esfandiary, S Abbasi, M Karimi, ...  
Applied Organometallic Chemistry 32 (8), e4431
- Glycerol K<sub>2</sub>CO<sub>3</sub> Deep Eutectic Solvent as Environmentally Friendly Media with Basic and Dehumidifier Synergistic Effect for Running of Willgerodt Kindler Reaction 2018  
I Radfar, S Abbasi, MK Miraki, E Yazdani, M Karimi, A Heydari  
ChemistrySelect 3 (11), 3265-3267
- Formamidinesulfinic Acid- Functionalized Fe<sub>3</sub>O<sub>4</sub>@ SiO<sub>2</sub> as a Green and Magnetic Recyclable Catalyst for Synthesis of Pyrano [2, 3- d] pyrimidinone Derivatives 2018  
L Ghandi, MK Miraki, I Radfar, E Yazdani, A Heydari  
ChemistrySelect 3 (6), 1787-1792
- Life cycle assessment of nanoadsorbents at early stage technological development 2018  
A Kazemi, N Bahramifar, A Heydari, SI Olsen  
Journal of Cleaner Production 174, 527-537
- Activity, stability and structure of laccase in betaine based natural deep eutectic solvents 2018  
S Khodaverdian, B Dabirmanesh, A Heydari, E Dashtban-Moghadam, ...  
International journal of biological macromolecules 107, 2574-2579
- Heavy metal accumulation in soybeans cultivated in Iran, 2015-2016 2018  
E Khalili Sadrabad, H Moshtaghi Boroujeni, A Heydari  
Journal of Nutrition and Food Security 3 (1), 27-32
- Efficient Synthesis of N Acylureas Using Copper Oxide Supported on Magnetic Nanoparticles in Deep Eutectic Solvent 2018  
S Abbasi, MK Miraki, I Radfar, M Karimi, A Heydari  
ChemistrySelect 3 (1), 77-80
- Choline Azide: New Reagent and Ionic Liquid in Catalyst- Free and Solvent- Free Synthesis of 5- Substituted- 1H- Tetrazoles: A Triple Function Reagent 2018  
JA Mehraban, K Azizi, MS Jalali, A Heydari  
ChemistrySelect 3 (1), 116-121

- I Radfar, M Karimi, L Ghandi, N Esfandiary, S Abbasi, A Heydari  
Organic Chem Curr Res 7 (193), 2161-0401.1000193
- Architected Fe Pd (OH) [picolinic acid] (H<sub>2</sub>O) Hybrid Nanorods: A Remarkably Reusable and Robust Heterogeneous Catalyst for Suzuki–Miyaura and Mizoroki–Heck Cross ... 2018  
H Asiabi, Y Yamini, M Shamsayei, M Kazemi Miraki, A Heydari  
ACS sustainable chemistry & engineering
- Copper-amino group complexes supported on silica-coated magnetite nanoparticles: efficient catalyst for oxidative amidation of methyl arenes 2018  
M Karimi, L Ghandi, D Saberi, A Heydari  
New Journal of Chemistry 42 (5), 3900-3908
- Efficient Method to Synthesize Benzhydrazides by In Situ Oxidation/Coupling of Benzylic Alcohols with Azodicarboxylates 2018  
K Azizi, A Heydari  
Synlett 29 (02), 189-192
- Phosphated tungstate: An efficient new solid phosphoric acid catalyst for the synthesis of heterocyclic nitrones 2018  
A Banan, H Valizadeh, A Heydari, A Moghimi  
Applied Organometallic Chemistry 32 (1), e3944
- Terbium–organic framework as heterogeneous Lewis acid catalyst for β- aminoalcohol synthesis: Efficient, reusable and green catalytic method 2017  
M Karimi, T Hajiashrafi, A Heydari, A Azhdari Tehrani  
Applied Organometallic Chemistry 31 (12), e3866
- Preparation and characterization of copper chloride supported on citric acid- modified magnetite nanoparticles (Cu<sup>2+</sup>- CA@Fe<sub>3</sub>O<sub>4</sub>) and evaluation of its catalytic ... 2017  
E Ghonchepour, E Yazdani, D Saberi, M Arefi, A Heydari  
Applied Organometallic Chemistry 31 (12), e3822
- Mild and eco- friendly chemoselective acylation of amines in aqueous medium using a green, superparamagnetic, recoverable nanocatalyst 2017  
MK Miraki, E Yazdani, L Ghandi, K Azizi, A Heydari  
Applied Organometallic Chemistry 31 (11), e3744
- Choline chloride/monoethylene glycol deep eutectic solvent as a new asphaltene precipitation inhibitor 2017  
S Jahanøiri. A Shahrabadi. A Hevdari. S Javadian. AH Nazemi. ...

- Selective Oxidation of Secondary Amines to N, N-Disubstituted Hydroxylamines by Choline Peroxydisulfate 2017  
A Banan, H Valizadeh, A Heydari, A Moghimi  
Synlett 28 (17), 2315-2319
- Fluorescence Chemosensory Determination of Cu<sup>2+</sup> Using a New Rhodamine–Morpholine Conjugate 2017  
Z Shekari, H Younesi, A Heydari, M Tajbakhsh, MJ Chaichi, A Shahbazi, ...  
Chemosensors 5 (3), 26
- A facial, scalable, and green synthesis of superparamagnetic palladium–carbon catalyst and its use in disproportionation of gum rosin 2017  
R Mostafalu, A Heydari, M Arefi, M Kazemi, A Banaei, F Ghorbani  
Journal of Nanostructure in Chemistry 7 (3), 201-206
- Copper oxide supported on magnetic nanoparticles (CuO@ $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>): An efficient and magnetically separable nanocatalyst for addition of amines to ... 2017  
S Abbasi, D Saberi, A Heydari  
Applied Organometallic Chemistry 31 (9), e3695
- Oxidative esterification of methylarenes and 1, 3- dicarbonyls catalysed by copper chloride immobilized on magnetic nanoparticles 2017  
A Nakisa, M Karimi, E Yazdani, A Heydari  
Applied Organometallic Chemistry 31 (8), e3674
- Direct oxidative esterification of toluene with 1, 3- dicarbonyl compounds catalysed by copper complex supported on magnetic nanoparticles 2017  
K Azizi, N Esfandiary, M Karimi, M Kazemi, A Heydari  
Applied Organometallic Chemistry 31 (8), e3658
- Glucose coated superparamagnetic nanoparticle catalysed pyrazole synthesis in water 2017  
N Esfandiary, A Nakisa, K Azizi, J Azarnia, I Radfar, A Heydari  
Applied Organometallic Chemistry 31 (7), e3641
- Deep eutectic solvent (DES) as dual solvent/catalyst for synthesis of  $\alpha$ -diazocarbonyl compounds using aldol-type coupling 2017  
MK Miraki, JA Mehraban, E Yazdani, A Heydari  
Journal of Molecular Liquids 234, 129-132
- One-pot Efficient Oximation-Beckmann Rearrangement of Ketones Catalyzed by Fe<sub>3</sub>O<sub>4</sub> Under Solvent-free Conditions 2017  
E Ghonchepour, D Saberi, A Heydari  
Organic Chemistry Research 3 (1), 44-49

disproportionate rosin (DPR)

R Mostafalu, A Heydari, A Banaei, F Ghorbani, M Arefi

Journal of Nanostructure in Chemistry 7 (1), 61-66

Superparamagnetic Fe<sub>3</sub>O<sub>4</sub>@ EDTA nanoparticles as an efficient adsorbent for simultaneous removal of Ag (I), Hg (II), Mn (II), Zn (II), Pb (II) and Cd (II) from water and soil ... 2017

E Ghasemi, A Heydari, M Sillanpää

Microchemical Journal 131, 51-56

Synthesis, characterization, thermal and computational studies of novel tetra-azido compounds as energetic plasticizers 2017

MH Baghersad, A Habibi, A Heydari

Journal of Molecular Structure 1130, 447-454

Erbium-organic framework as heterogeneous Lewis acid catalysis for Hantzsch coupling and tetrahydro-4H-chromene synthesis 2017

T Hajiashrafi, M Karimi, A Heydari, AA Tehrani

Catalysis Letters 147 (2), 453-462

Nanorods of FeVO<sub>4</sub>: An efficient heterogeneous catalyst for chemoselective oxidation of benzylic alcohols 2017

A Heydari, M Sheykhan, M Sadeghi, I Radfar

Inorganic and Nano-Metal Chemistry 47 (2), 248-255

Guanidine acetic acid functionalized magnetic nanoparticles: Recoverable green catalyst for transamidation 2016

M Kazemi Miraki, M Arefi, E Yazdani, S Abbasi, M Karimi, K Azizi, ...

ChemistrySelect 1 (19), 6328-6333

Tungstophosphoric Acid Supported on Silica-encapsulated  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> Nanoparticles Catalyzed Oxidative Amidation 2016

M Karimi, A Nakisa, K Azizi, A Heydari

Organic Chemistry Research 2 (2), 140-147

In Situ-Generated (Hypo) iodite Ions-Catalyzed Oxidative Amidation of Unactivated Methylarenes 2016

JA Mehraban, K Azizi, M Karimi, A Heydari

Impressive Catalytic Capacity to Synthesis of Benzamide Derivatives in the Presence of Cu (II)-EDTA Complex Supported on Magnetic Nanoparticles 2016

K Azizi, M Karimi, A Heydari

- recoverable catalyst for transamidation of primary carboxamides, phthalimide, urea and thiourea with amines  
M Arefi, A Heydari
- A Mild and Green Route for Regio-selective Amination of Oxiranes Using Nanomagnetic Supported Ferrous Ion as a Solid Lewis Acid Catalyst in Water  
F Mansouri, M Sheykhani, A Heydari  
Nanochemistry Research 1 (2), 166-176 2016
- Novel magnetically separable sulfated boric acid functionalized nanoparticles for hantzsch ester synthesis  
K Azizi, J Azarnia, M Karimi, E Yazdani, A Heydari  
Synlett 27 (12), 1810-1813 2016
- Citric acid coated magnetite nanoparticles: an efficient and reusable green catalyst for rapid acetylation of alcohols and phenols  
E Ghonchehpour, A Nakisa, A Heydari  
Organic Chemistry Research 2 (1), 96-101 2016
- Transamidation of primary carboxamides, phthalimide, urea and thiourea with amines using  $\text{Fe}(\text{OH})_3 @ \text{Fe}_3\text{O}_4$  magnetic nanoparticles as an efficient recyclable catalyst  
M Arefi, A Heydari  
RSC advances 2016
- IN SITU-GENERATED (HYPO) IODITE IONS-CATALYZED OXIDATIVE AMIDATION OF UNACTIVATED METHYLARENES  
MJ AZARNIAN, K AZIZI, M KARIMI, A HEYDARI 2016
- L-ARGININE-FUNCTIONALIZED MAGNETIC NANOPARTICLES AS A RECYCLABLE ORGANOCATALYST FOR SYNTHESIS OF CHROMENES  
MM KAZEMI, A SALAMATMANESH, K AZIZI, A HEYDARI 2016
- DEEP EUTECTIC SOLVENT (CHCL/UREA) AS A GREEN CATALYST FOR REDUCTIVEAMINATION OF ALDEHYDES AND KETONES  
S ABBASI, A HEYDARI 2016
- A GREEN SYNTHESIS OF  $\alpha$ -AMINOPHOSPHONATES IN GLYCEROL  
A SALAMATMANESH, MM KAZEMI, E AZIZI, A HEYDARI 2016
- VITAMINE B 1 FUNCTIONALIZED  $\gamma\text{-Fe}_2\text{O}_3 @ \text{SiO}_2$ : ORGANO CATALYZED PAAL-KNORR-PYRROLINE SYNTHESIS 2016

- MAGNETIC NANOPARTICLES OF IRON (III) VANADATE AS A GREEN VERSATILE HETEROGENEOUS CATALYST FOR SELECTIVE OXIDATION OF BENZYL ALCOHOLS AND INDANE  
I RADFAR, A HEYDARI, M SHEYKHAN, M SADEGHI 2016
- Determining the parameters of chirp signals using cyclostationary method in presence of the interference  
K Heydari, P Azmi, B Abbasi, A Heydari  
Journal of Fundamental and Applied Sciences 8 (2), 478-486 2016
- Parameter estimation for fm signals in two stages: non uniform fast fourier transform (NUFFT) and short-time frequency transform  
K Heydari, P Azmi, B Abbasi, A Heydari  
Journal of Fundamental and Applied Sciences 8 (2), 467-477 2016
- Imidazolium chloride immobilized on copper acetylacetonate-grafted magnetic chitosan as a new metal/ionic liquid bifunctional catalyst for selective oxidation of benzyl ...  
K Azizi, N Esfandiary, M Karimi, E Yazdani, A Heydari  
RSC advances 6 (92), 89313-89321 2016
- Transamidation of primary carboxamides, phthalimide, urea and thiourea with amines using Fe (OH) 3@ Fe 3 O 4 magnetic nanoparticles as an efficient recyclable catalyst  
M Arefi, A Heydari  
RSC Advances 6 (29), 24684-24689 2016
- Simultaneous determination of pyrethroids residues in fruit and vegetable samples via supercritical fluid extraction coupled with magnetic solid phase extraction followed by ...  
H Bagheri, Y Yamini, M Safari, H Asiabi, M Karimi, A Heydari  
The Journal of Supercritical Fluids 107, 571-580 2016
- Thiourea-functionalized magnetic hydroxyapatite as a recyclable inorganic-organic hybrid nanocatalyst for conjugate hydrocyanation of chalcones with TMSCN  
AA Oskouie, S Taheri, L Mamani, A Heydari  
Catalysis Communications 72, 6-10 2015
- Comparison of the Two Thermophilic and Mesophilic Amylase Enzymes Stability and Structure in Deep Eutectic Solvent (DES)  
M Haddadi, B Dabirmanesh, S Khodaverdian, S Mohseni, S Alavi, ...  
Protein Engineering 2015 2015
- Magnetic Fe<sub>3</sub>O<sub>4</sub> Nanofibers as Efficient and Recyclable Catalyst for Solvent-Free Selective Oxidation of Benzyl Alcohols 2015

- H Ziyadi, A Heydari, F Nikbakht  
Letters in Organic Chemistry 12 (8), 598-604
- Oxidative Amidation of Alcohols on Iron (III) Hydroxide/Magnetite Nanoparticles 2015  
Y Uozumi, S Pan  
Synfacts 11 (09), 1004-1004
- Simple and rapid immobilization of firefly luciferase on functionalized magnetic nanoparticles; a try to improve kinetic properties and stability 2015  
M Ebrahimi, S Hosseinkhani, A Heydari, J Akbari  
Biomacromolecular Journal 1 (1), 104-112
- Superparamagnetic Fe(OH)<sub>3</sub>@Fe<sub>3</sub>O<sub>4</sub> Nanoparticles: An Efficient and Recoverable Catalyst for Tandem Oxidative Amidation of Alcohols with Amine ... 2015  
M Arefi, D Saberi, M Karimi, A Heydari  
ACS combinatorial science 17 (6), 341-347
- FeSO<sub>4</sub>·7H<sub>2</sub>O-catalyzed oxidative amidation of methylarenes 2015  
M Karimi, D Saberi, K Azizi, E Ghonchepour, A Heydari  
Tetrahedron Letters 56 (21), 2674-2677
- Green synthesis of nitroenamines by  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>@SiO<sub>2</sub>-OSO<sub>3</sub>H nanoparticles as a highly efficient and magnetically separable catalyst 2015  
S Mahdudi, D Saberi, A Heydari  
Journal of the Iranian Chemical Society 12 (5), 903-907
- Encapsulation of Pd (II) into superparamagnetic nanoparticles grafted with EDTA and their catalytic activity towards reduction of nitroarenes and Suzuki–Miyaura coupling 2015  
K Azizi, E Ghonchepour, M Karimi, A Heydari  
Applied Organometallic Chemistry 29 (4), 187-194
- Oxidative coupling of formamides with  $\beta$ -dicarbonyl compounds and the synthesis of 2-aminobenzothiazole using Cu (II)-functionalized Fe<sub>3</sub>O<sub>4</sub> nanoparticles 2015  
K Azizi, M Karimi, A Heydari  
Tetrahedron Letters 56 (6), 812-816
- Organotin–oxotungstate coordination polymer: An efficient catalyst for the selective oxidation of amines 2015  
F Nikbakht, A Heydari  
Comptes Rendus Chimie 18 (2), 122-126



- Determining the Parameters of Chirp Signal Using Cyclostationary Method in Presence of the Undesired Signal 2015  
K Heydari, A Heydari, P Azmi, B Abbasi
- Tungstophosphoric acid supported on  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>@ SiO<sub>2</sub> nanoparticles catalyzed oxidative amid bond formation 2015  
A Nakisa, M Karimi, A Heydari
- BORIC ACID MAGNETIC NANOPARTICLES AS A NOVEL MAGNETICALLY RECOVERABLE CATALYST FOR MUKAIYAMA ALDOL REACTION 2015  
E YAZDANI, A NAKISA, A HEYDARI
- A catalyst-free synthesis of  $\alpha$ -aminophosphonates in glycerol 2014  
K Azizi, M Karimi, A Heydari  
Tetrahedron Letters 55 (52), 7236-7239
- Maghemite supported copper oxide nanocatalyst for the N–H insertion reaction with ethyl diazoacetate 2014  
A Ebrahimi, A Heydari, A Esrafil  
Catalysis letters 144 (12), 2204-2209
- Core–Shell  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>@ SiO<sub>2</sub> Nanofibers: A Magnetic Recyclable Catalyst for One-Pot Reductive Amination of Carbonyl Compound 2014  
H Ziyadi, A Heydari  
Catalysis letters 144 (12), 2210-2215
- Cu (II)–acetylacetonate complex covalently anchored onto magnetic nanoparticles: Synthesis, characterization and catalytic evaluation in amide bond formation via oxidative ... 2014  
D Saberi, S Mahdudi, S Cheraghi, A Heydari  
Journal of Organometallic Chemistry 772, 222-228
- 1-Methylimidazolium tetrafluoroborate [Hmim][BF<sub>4</sub>]: an efficient acidic ionic liquid catalyst for insertion of  $\alpha$ -diazo compounds into the N–H bonds of amines 2014  
J Akbari, A Ebrahimi, A Heydari  
Tetrahedron Letters 55 (40), 5417-5419
- Transition-metal-free oxidative amidation of benzyl alcohols with amines catalyzed by NaI: a new method for the synthesis of benzamides 2014  
M Karimi, D Saberi, K Azizi, M Arefi, A Heydari  
Tetrahedron Letters 55 (20), 5251-5252

- Emerging Direct Oxidative Amidation of Benzyl Alcohol: Atom Economical Method Using CuCl<sub>2</sub> Trapped by EDTA Functionalized Magnetic Nanoparticles 2014  
M Karimi, K Azizi, A Heydari
- Proline Supported on Magnetic Nanoparticles as a highly efficient base catalyst in the Synthesis of Chromenes 2014  
K Azizi, A Heydari
- Fe<sub>3</sub>O<sub>4</sub>@ EDTA@ Cu<sup>2+</sup>-Catalyzed Direct Oxidative Amidation of Benzyl Alcohol 2014  
M Karimi, K Azizi, A Heydari
- Heterogenization of Tributyltin onto the Surface of magnetic Nanoparticles for Trimethylsilylation of Alcohols and Phenols 2014  
A Heydari, E Ghonchepour, F Nikbakhta
- Highly Efficient Acylation in the Presence of Thiamine Hydrochloride Supported on Magnetic Nanoparticles 2014  
K Azizi, A Heydari
- Reductive amination of aldehydes and ketones catalyzed by deep eutectic solvent using sodium borohydride as a reducing agent 2014  
D Saberi, J Akbari, S Mahdudi, A Heydari  
Journal of Molecular Liquids 196, 208-210
- Direct oxidative amidation of benzyl alcohols using EDTA@ Cu (II) functionalized superparamagnetic nanoparticles 2014  
K Azizi, M Karimi, F Nikbakht, A Heydari  
Applied Catalysis A: General 482, 336-343
- Nanomagnetically Modified Sulfuric Acid ( $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>@ SiO<sub>2</sub>-OSO<sub>3</sub>H): An Efficient, Fast, and Reusable Catalyst for Greener Paal–Knorr Pyrrole Synthesis 2014  
S Cheraghi, D Saberi, A Heydari  
Catalysis letters 144 (7), 1339-1343
- Preparation and characterization of magnetic  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> nanofibers coated with uniform layers of silica 2014  
H Ziyadi, A Heydari, SM Rezayat  
Ceramics International 40 (4), 5913-5919
- Modifying effect of imidazolium-based ionic liquids on surface activity and self-assembled nanostructures of sodium dodecyl sulfate 2014  
S Javadian, F Nasiri, A Heydari, A Yousefi, AA Shahir

- Trichloroacetonitrile–hydrogen peroxide: a simple and efficient system for the selective oxidation of tertiary and secondary amines 2014  
F Nikbakht, A Heydari  
Tetrahedron Letters 55 (15), 2513-2516
- Magnetic nanoparticles supported ionic liquids improve firefly luciferase properties 2014  
AR Noori, S Hosseinkhani, P Ghiasi, J Akbari, A Heydari  
Applied biochemistry and biotechnology 172 (6), 3116-3127
- Strecker and Kabachnik–Fields Reactions with DHAA/Fe<sub>3</sub>O<sub>4</sub> 2014  
Y Uozumi, F Sakurai  
Synfacts 10 (02), 0218-0218
- Oxidative amidation of aromatic aldehydes with amine hydrochloride salts catalyzed by silica- coated magnetic carbon nanotubes 2014  
(MagCNTs@SiO<sub>2</sub>)- immobilized ...  
D Saberi, A Heydari  
Applied Organometallic Chemistry 28 (2), 101-108
- Vitamin B<sub>1</sub> supported on silica-encapsulated  $\gamma$ -Fe<sub>2</sub> O<sub>3</sub> nanoparticles: design, characterization and application as a greener biocatalyst for highly efficient acylation 2014  
K Azizi, A Heydari  
RSC advances
- SYNTHESIS OF 1, 4-DIHYDROPYRIDINE DERIVATIVES USING CALIX ARENE TETRA SULFONIC ACID AS AN EFFICIENT ORGANOCATALYST IN SOLVENT FREE CONDITION 2014  
LM MANSOUR, A HEYDARI, R SALAVATI
- Efficient synthesis of the microporous titanosilicates ETS-10 2014  
M Nasiri, G Zarei, A Maleki, A Heydari
- PVA/Fe (NO<sub>3</sub>)<sub>3</sub> nanofiber mats: an efficient, heterogeneous and recyclable catalyst for the synthesis of quinolines via Friedländer annulations 2014  
H Ziyadi, A Heydari  
RSC advances 4 (102), 58208-58213
- Preparation of Nitrones Using  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>@ SiO<sub>2</sub>-H<sub>3</sub>PW<sub>12</sub>O<sub>40</sub> 2014  
Y Uozumi, YMA Yamada, H Baek  
Synfacts 10 (01), 0107-0107
- Tributyltin grafted onto the surface of 3-aminopropyl functionalized  $\gamma$ -Fe<sub>2</sub> O<sub>3</sub> 2014

alcohols and phenols

F Nikbakht, E Ghonchepour, H Ziyadi, A Heydari

RSC advances 4 (65), 34428-34434

A simple, green, one-pot synthesis of magnetic-nanoparticle-supported proline without any source of supplemental linkers and application as a highly efficient base catalyst 2014

K Azizi, A Heydari

RSC advances 4 (13), 6508-6512

Ultrasound irradiation for the green synthesis of chromenes using L-arginine-functionalized magnetic nanoparticles as a recyclable organocatalyst 2014

K Azizi, M Karimi, HR Shaterian, A Heydari

RSC Advances 4 (79), 42220-42225

Hypervalent iodine-catalyzed oxidative amidation of methylarenes 2014

K Azizi, M Karimi, A Heydari

RSC Advances 4 (60), 31817-31820

Vitamin B 1 supported on silica-encapsulated  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles: design, characterization and application as a greener biocatalyst for highly efficient acylation 2014

K Azizi, A Heydari

RSC Advances 4 (17), 8812-8816

Dehydroascorbic acid (DHAA) capped magnetite nanoparticles as an efficient magnetic organocatalyst for the one-pot synthesis of  $\alpha$ -aminonitriles and  $\alpha$ -aminophosphonates 2013

D Saberi, S Cheraghi, S Mahdudi, J Akbari, A Heydari

Tetrahedron Letters 54 (48), 6403-6406

Oxidation of secondary amines to nitrones using magnetically separable tungstophosphoric acid supported on silica-encapsulated  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles 2013

F Nikbakht, A Heydari, D Saberi, K Azizi

Tetrahedron Letters 54 (48), 6520-6523

Imidazolium-based ionic liquids as modulators of physicochemical properties and nanostructures of CTAB in aqueous solution: the effect of alkyl chain length, hydrogen bonding ... 2013

S Javadian, V Ruhi, A Asadzadeh Shahir, A Heydari, J Akbari

Industrial & Engineering Chemistry Research 52 (45), 15838-15846

CuO nanoparticles supported on  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>-modified CNTs: a magnetically separable catalyst for oxidative C-C coupling of formamides with 1,2-dicarbonyl compounds 2013

F Nikbakht, A Heydari, D Saberi, K Azizi

Industrial & Engineering Chemistry Research 52 (45), 15838-15846

- D Saberi, A Heydari  
Tetrahedron Letters 54 (32), 4178-4180
- Self-assembled CTAB nanostructures in aqueous/ionic liquid systems: effects of hydrogen bonding 2013  
S Javadian, V Ruhi, A Heydari, A Asadzadeh Shahir, A Yousefi, J Akbari  
Industrial & Engineering Chemistry Research 52 (12), 4517-4526
- Purification and biochemical characterization of an acidophilic amylase from a newly isolated Bacillus sp. DR90 2013  
A Asoodeh, A Alemi, A Heydari, J Akbari  
Extremophiles 17 (2), 339-348
- Chemometric optimization of adsorption of Pb (II) and Cu (II) from aqueous solutions using magnetic hydroxyapatite nanoparticles 2013  
B Goorakania, A Heydari, H Ziyadi, E Ghasemi
- VITAMIN C-CAPPED MAGNETITE NANOPARTICLES AS AN EFFICIENT BIOCOMPATIBLE MAGNETIC ORGANOCATALYST FOR THE ONE-POT SYNTHESIS OF  $\alpha$ -AMINONITRILES 2013  
D SABERI, S CHERAGHI, S MAHDUDI, A HEYDARI
- Preparation of carbon nanotube-supported  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>@ CuO nanocomposite: a highly efficient and magnetically separable catalyst in cross-coupling of aryl halides with phenols 2013  
D Saberi, M Sheykhani, K Niknam, A Heydari  
Catalysis Science & Technology 3 (8), 2025-2031
- A new and green synthesis of formamidines by  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>@ SiO<sub>2</sub>-HBF<sub>4</sub> nanoparticles as a robust and magnetically recoverable catalyst 2012  
M Sheykhani, M Mohammadquli, A Heydari  
Journal of Molecular Structure 1027, 156-161
- Preparation of Aminoimidazopyridines with  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>@ SiO<sub>2</sub>-OSO<sub>3</sub>H 2012  
Y Uozumi, YMA Yamada, Y Yuyama  
Synfacts 8 (11), 1274-1274
- Improvement of thermostability and activity of firefly luciferase through [TMG][Ac] ionic liquid mediator 2012  
M Ebrahimi, S Hosseinkhani, A Heydari, RA Khavari-Nejad, J Akbari  
Applied biochemistry and biotechnology 168 (3), 604-615
- Nanomagnetically modified sulfuric acid ( $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>@ SiO<sub>2</sub>-OSO<sub>3</sub>H): an efficient, fast, and reusable green catalyst for the Ugi-like Groebke-Blackburn-

- S Rostamnia, K Lamei, M Mohammadquli, M Sheykhani, A Heydari  
Tetrahedron Letters 53 (39), 5257-5260
- Superparamagnetic magnesium ferrite nanoparticles: a magnetically reusable and clean heterogeneous catalyst 2012  
M Sheykhani, H Mohammadnejad, J Akbari, A Heydari  
Tetrahedron Letters 53 (24), 2959-2964
- Synthesis of Mn<sub>3</sub>O<sub>4</sub> nanoparticles with controlled morphology using ionic liquid 2012  
J Akbari, A Heydari  
Current Nanoscience 8 (3), 398-401
- Inhibition mediated stabilization effect of imidazolium based ionic liquids on alcohol dehydrogenase 2012  
B Dabirmanesh, K Khajeh, B Ranjbar, F Ghazi, A Heydari  
Journal of Molecular Liquids 170, 66-71
- Medical Errors in Examinations before Sending Pilgrims to the Hajj in 2008 2012  
A Heidari, M Memarzadeh, N Shamspour, M Inanlou  
Quarterly Scientific Journal of Rescue and Relief 3 (3), 0-0
- Magnetic Nanoparticles Catalyzed N-Tert-Butoxycarbonylation of Amines and Amine Derivatives 2012  
J Akbari, S B Sajirani, J M Nezhad, A Heydari  
Letters in Organic Chemistry 9 (3), 165-168
- CuO Nanoparticles as an Efficient and Reusable Catalyst for the One-pot Friedlander Quinoline Synthesis (vol 32, pg 3853, 2011) 2012  
JM Nezhad, J Akbari, A Heydari, B Alirezapour  
BULLETIN OF THE KOREAN CHEMICAL SOCIETY 33 (2), 742-742
- Nanomagnetically modified sulfuric acid ( $\gamma$ -Fe<sub>2</sub> O<sub>3</sub> @ SiO<sub>2</sub> -OSO<sub>3</sub> H): an efficient, fast, and reusable green catalyst for the Ugi-like Groebke-Blackburn-Bienaymé three-component ... 2012  
S Rostamnia, K Lamei, M Mohammadquli, M Sheykhani, A Heydari
- new and green synthesis of formamidines by  $\gamma$ -Fe<sub>2</sub> O<sub>3</sub> @ SiO<sub>2</sub> -HBF<sub>4</sub> nanoparticles as a robust and magnetically recoverable catalyst 2012  
M Sheykhani, M Mohammadquli, A Heydari  
Journal of molecular structure
- Controversial effect of two methylguanidine-based ionic liquids on firefly luciferase 2012  
M Fbrahimi. S Hosseinkhani. A Hevdari. RA Khavari-Neiad. J Akbari

- Minimisation of E-Factor in the synthesis of N-hydroxylamines: the role of silver (I)-based coordination polymers 2012  
M Sheykhan, ZR Ranjbar, A Morsali, A Heydari  
Green Chemistry 14 (7), 1971-1978
- The synthesis and spectroscopic characterization of nano calcium fluorapatite using tetra-butylammonium fluoride 2011  
M Sheykhan, A Heydari, L Ma'mani, A Badiei  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 83 (1 ...
- Determination of thebaine in water samples, biological fluids, poppy capsule, and narcotic drugs, using electromembrane extraction followed by high-performance liquid ... 2011  
S Seidi, Y Yamini, A Heydari, M Moradi, A Esrafil, M Rezazadeh  
Analytica chimica acta 701 (2), 181-188
- Investigation of structure, vibrational and NMR spectra of oxycodone and naltrexone: a combined experimental and theoretical study 2011  
H Tavakol, M Esfandiyari, S Taheri, A Heydari  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 79 (3 ...
- Mesophilic alcohol dehydrogenase behavior in imidazolium based ionic liquids 2011  
B Dabirmanesh, K Khajeh, J Akbari, H Falahati, S Daneshjoo, A Heydari  
Journal of Molecular Liquids 161 (3), 139-143
- Ultrasound assisted synthesis of Cs<sub>2</sub>. 5H<sub>2</sub>O. 5PW12O<sub>40</sub>: An efficient nano-catalyst for preparation of  $\beta$ -amino ketones via aza-Michael addition reactions 2011  
Z Shobeiri, M Pourayoubi, A Heydari, TM Percino, MAL Ramírez  
Comptes Rendus Chimie 14 (6), 597-603
- Nanosilver embedded on hydroxyapatite-encapsulated  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>: Superparamagnetic catalyst for chemoselective oxidation of primary amines to N-monoalkylated hydroxylamines 2011  
L Ma'mani, M Sheykhan, A Heydari  
Applied Catalysis A: General 395 (1-2), 34-38
- Catalyst-free one-pot reductive alkylation of primary and secondary amines and N, N-dimethylation of amino acids using sodium borohydride in 2, 2, 2-trifluoroethanol 2011  
M Tajbakhsh, R Hosseinzadeh, H Alinezhad, S Ghahari, A Heydari, ...

- Sulfamic acid heterogenized on hydroxyapatite-encapsulated  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> nanoparticles as a magnetic green interphase catalyst 2011  
M Sheykhani, L Ma'mani, A Ebrahimi, A Heydari  
Journal of Molecular Catalysis A: Chemical 335 (1-2), 253-261
- ZnO nanorods as an efficient and heterogeneous catalyst for N-Boc protection of amines and amine derivatives 2011  
A Nouri, J Akbari, A Heydari, A Nouri  
Letters in Organic Chemistry 8 (1), 38-42
- CuO nanoparticles as an efficient and reusable catalyst for the one-pot Friedlander quinoline synthesis 2011  
JM Nezhad, J Akbari, A Heydari, B Alirezapour  
Bulletin of the Korean Chemical Society 32 (11), 3853-3854
- Effect of ionic liquids on the structure, stability and activity of two related  $\alpha$ -amylases 2011  
B Dabirmanesh, S Daneshjou, AA Sepahi, B Ranjbar, RA Khavari-Nejad, ...  
International Journal of Biological Macromolecules 48 (1), 93-97
- obesity in childhood 2010  
M Karimi, A Heydari, A Zare Mehrjerdi  
SSU\_Journals 18 (5), 479-487
- Thioglycoluril as a highly efficient, recyclable and novel organocatalyst for N-Boc protection of amines 2010  
S Khaksar, SM Vahdat, M Tajbakhsh, F Jahani, A Heydari  
Tetrahedron Letters 51 (49), 6388-6391
- Lewis acid catalyst free synthesis of benzimidazoles and formamidines in 1, 1, 1, 3, 3, 3-hexafluoro-2-propanol 2010  
S Khaksar, A Heydari, M Tajbakhsh, SM Vahdat  
Journal of Fluorine Chemistry 131 (12), 1377-1381
- The Ritter reaction under incredibly green protocol: Nano magnetically silica-supported Brønsted acid catalyst 2010  
L Ma'mani, A Heydari, M Sheykhani  
Applied Catalysis A: General 384 (1-2), 122-127
- Protic ionic liquid [TMG][Ac] as an efficient, homogeneous and recyclable catalyst for Boc protection of amines 2010  
J Akbari, A Heydari, L Ma'mani, SH Hosseini  
Comptes Rendus Chimie 13 (5), 544-547
- Sulfonic acid supported on hydroxvanatite-encapsulated- $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> 2010



- L Ma'mani, M Sheykhan, A Heydari, M Faraji, Y Yamini  
Applied Catalysis A: General 377 (1-2), 64-69
- Sulfonic acid functionalized ionic liquid in combinatorial approach, a recyclable and water tolerant-acidic catalyst for one-pot Friedlander quinoline synthesis 2010  
J Akbari, A Heydari, H Reza Kalhor, SA Kohan  
Journal of combinatorial chemistry 12 (1), 137-140
- A facile and efficient synthesis of  $\beta$ -amino alcohols using 2, 2, 2-trifluoroethanol as a metal-free and reusable medium 2010  
S Khaksar, A Heydari, M Tajbakhsh, HR Bijanzadeh  
Journal of Fluorine Chemistry 131 (1), 106-110
- Inhibition of amyloid formation by ionic liquids: ionic liquids affecting intermediate oligomers 2009  
HR Kalhor, M Kamizi, J Akbari, A Heydari  
Biomacromolecules 10 (9), 2468-2475
- General Synthesis of Hantzsch Esters in 2, 2, 2-Trifluoroethanol 2009  
A Heydari, S Khaksar, M Tajbakhsh, HR Bijanzadeh  
Synfacts 2009 (09), 0961-0961
- Effects of ionic liquids on the kinetic behavior of thermophilic alcohol dehydrogenase and its mesophilic counterpart 2009  
B Dabirmanesh, H Falahati, K Khajeh, J Akbari, A Heydari  
New Biotechnology 25, S143
- A sulfonic acid functionalized ionic liquid as a homogeneous and recyclable catalyst for the one-pot synthesis of  $\alpha$ -aminophosphonates 2009  
J Akbari, A Heydari  
Tetrahedron Letters 50 (29), 4236-4238
- One-step, synthesis of Hantzsch esters and polyhydroquinoline derivatives in fluoro alcohols 2009  
A Heydari, S Khaksar, M Tajbakhsh, HR Bijanzadeh  
Journal of Fluorine Chemistry 130 (7), 609-614
- Nanohydroxyapatite microspheres as a biocompatible and recoverable catalyst for synthesis of carbon-phosphorous bond formation 2009  
L Ma'mani, A Heydari, RK Shiroodi  
Current Organic Chemistry 13 (7), 758-762
- Trifluoroethanol as a metal-free, homogeneous and recyclable medium for the efficient one-pot synthesis of  $\alpha$ -amino nitriles and  $\alpha$ -amino phosphonates 2009

- Tetrahedron Letters 50 (1), 77-80
- Guanidine derived ionic liquids: catalyst free medium for N-Formylation of amines 2009  
J Akbari, M Hekmati, M Sheykhani, A Heydari  
Arkivoc 11, 123-129
- Organocatalytic synthesis of  $\alpha$ -hydroxy and  $\alpha$ -aminophosphonates 2008  
SM Vahdat, R Baharfar, M Tajbakhsh, A Heydari, SM Baghbanian, ...  
Tetrahedron Letters 49 (46), 6501-6504
- 1, 1, 1, 3, 3, 3-Hexafluoroisopropanol: a recyclable organocatalyst for N-Boc protection of amines 2008  
A Heydari, S Khaksar, M Tajbakhsh  
Synthesis 2008 (19), 3126-3130
- Enantioselective addition of diethylzinc to aromatic aldehydes catalyzed by 14-hydroxylsubstituted morphinans 2008  
M Dabiri, P Salehi, G Kozehgary, S Heydari, A Heydari, M Esfandyari  
Tetrahedron: Asymmetry 19 (16), 1970-1972
- Hydrogen bond catalyzed chemoselective N-tert-butoxycarbonylation of amines 2008  
S Khaksar, A Heydari, M Tajbakhsh, SM Vahdat  
Tetrahedron Letters 49 (21), 3527-3529
- H3PMo12O40 as a new and reusable catalyst for Mukaiyama and Mannich reactions in heterogeneous media 2008  
A Heydari, S Khaksar, M Sheykhani, M Tajbakhsh  
Journal of Molecular Catalysis A: Chemical 287 (1-2), 5-8
- Coupling of aldehydes, amines, and trimethyl phosphite promoted by amberlyst-15: Highly efficient synthesis of  $\alpha$ -aminophosphonates 2008  
M Tajbakhsh, A Heydari, H Alinezhad, M Ghanei, S Khaksar  
Synthesis 2008 (03), 352-354
- R NCS R NHCN 2008  
SM Vahdat, R Baharfar, M Tajbakhsh, A Heydari, SM Baghbanian, ...  
Tetrahedron Letters 49 (46)
- Silica- supported perchloric acid as a recyclable catalyst for efficient trimethylsilyl cyanide addition to aldehydes 2008  
A Heydari, L MaMani  
Applied Organometallic Chemistry 22 (1), 12-14

- Direct reductive amination of aldehydes and selective reduction of  $\alpha$ ,  $\beta$ -unsaturated carbonyl compounds by NaBH<sub>4</sub> in the presence of guanidine hydrochloride in water 2007  
A Heydari, A Arefi, M Esfandvari  
Journal of Molecular Catalysis A: Chemical 274 (1-2), 169-172
- Amberlyst-15 as a heterogeneous reusable catalyst for the synthesis of  $\alpha$ -hydroxy phosphonates in water 2007  
M Tajbakhsh, A Heydari, MA Khalilzadeh, MM Lakouraj, B Zamenian, ...  
Synlett 2007 (15), 2347-2350
- N-tert-Butoxycarbonylation of amines using H<sub>3</sub>PW<sub>12</sub>O<sub>40</sub> as an efficient heterogeneous and recyclable catalyst 2007  
A Heydari, RK Shiroodi, H Hamadi, M Esfandvari, M Pourayoubi  
Tetrahedron Letters 48 (33), 5865-5868
- A new one-pot synthesis of  $\alpha$ -amino phosphonates catalyzed by H<sub>3</sub>PW<sub>12</sub>O<sub>40</sub> 2007  
A Heydari, H Hamadi, M Pourayoubi  
Catalysis Communications 8 (8), 1224-1226
- One-pot three-component synthesis of  $\alpha$ -amino phosphonate derivatives 2007  
A Heydari, A Arefi  
Catalysis Communications 8 (7), 1023-1026
- Guanidine hydrochloride: An active and simple catalyst for Strecker type reaction 2007  
A Heydari, A Arefi, S Khaksar, RK Shiroodi  
Journal of Molecular Catalysis A: Chemical 271 (1-2), 142-144
- Sulfamic acid: an efficient, cost-effective and recyclable solid acid catalyst for the three-component synthesis of  $\alpha$ -amino nitriles 2007  
A Heydari, S Khaksar, M Pourayoubi, AR Mahjoub  
Tetrahedron letters 48 (23), 4059-4060
- A novel one-pot reductive amination of aldehydes and ketones with lithium perchlorate and zirconium borohydride-piperazine complexes 2007  
A Heydari, S Khaksar, M Esfandvari, M Tajbakhsh  
Tetrahedron 63 (16), 3363-3366
- Chemoselective addition of organometallics to oxime ethers 2007  
H Tavakol, S Zakery, A Heydari  
Journal of organometallic chemistry 692 (10), 1924-1927
- Direct reductive amination and selective 1, 2-reduction 2007  
A Heydari, S Khaksar, J Akhbari, M Esfandvari, M Pourayoubi, ...

- Direct reductive amination and selective 1, 2-reduction of  $\alpha$ ,  $\beta$ -unsaturated aldehydes and ketones by NaBH<sub>4</sub> using H<sub>3</sub>PW<sub>12</sub>O<sub>40</sub> as catalyst  
A Heydari, S Khaksar, J Akbari, M Esfandyari, M Pourayoubi, ...  
Tetrahedron letters 48 (7), 1135-1138 2007
- An unexpected N-substituted oxindole: 1-(3, 3, 5-trimethyl-2-phenyl-1, 2-oxazolidin-5-yl)-1H-indol-3 (2H)-one  
M Parvez, M Mehrdad, H Sureni, A Heydari, K Jadidi  
Acta Crystallographica Section E: Structure Reports Online 63 (2), o877-o878 2007
- An unexpected N-substituted oxindole: 5-methyl-1-(3, 3, 5-trimethyl-2-p-tolyl-1, 2-oxazolidin-5-yl)-1H-indol-3 (2H)-one  
M Parvez, M Mehrdad, H Sureni, A Heydari, K Jadidi  
Acta Crystallographica Section E: Structure Reports Online 63 (2), o875-o876 2007
- Hydrophosphonylation of aldehydes catalyzed by guanidine hydrochloride in water  
A Heydari, A Arefi, S Khaksar, M Tajbakhsh  
Catalysis Communications 7 (12), 982-984 2006
- Lithium Perchlorate- Catalyzed Boc Protection of Amines and Amine Derivatives  
A Heydari, SE Hosseini  
Advanced Synthesis & Catalysis 347 (15), 1929-1932 2005
- Oxidation of Primary Amines to *N*- Monoalkylhydroxylamines using Sodium Tungstate and Hydrogen Peroxide- Urea Complex  
A Heydari, S Aslanzadeh  
Advanced Synthesis & Catalysis 347 (9), 1223-1225 2005
- Application of scientometric methods to chemical research in Iran: Reflections on Iran's current science policy  
M Yalpani, A Heydari, M Mehrdad  
Scientometrics 63 (3), 531-547 2005
- 'Quantity over Quality': A Voice from the Third World  
M Yalpani, A Heydari  
Chemistry & biodiversity 2 (6), 730-737 2005
- A general one-pot, three-component mono N-alkylation of amines and amine derivatives in lithium perchlorate/diethyl ether solution  
A Heydari, M Mehrdad, S Aslanzadeh, J Arami, N Ahmadi  
Synthesis 2005 (04), 627-633 2005

- Vasorelaxatory effect of *Vitis vinifera* extract on rat aorta 2005  
 NMK GHARIB, HM Navid, A HEYDARI  
 IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH (IJPR) 4 (2),  
 93-99
- Basic science in the Islamic Republic of Iran 2004  
 M Mehrdad, A Heydari, M Sarbolouki, S Etemad  
 Scientometrics 61 (1), 79-80
- A new and efficient epoxide ring opening via poor nucleophiles: Indole, p-  
 nitroaniline, borane and O-trimethylsilylhydroxylamine in lithium perchlorate 2004  
 A Heydari, M Mehrdad, A Maleki, N Ahmadi  
 Synthesis 2004 (10), 1563-1565
- One-pot synthesis of  $\alpha$ -substituted hydroxylamine derivatives from aldehydes 2003  
 using lithium perchlorate/diethyl ether as a catalyst  
 A Heydari, M Mehrdad, H Tavakol  
 Synthesis 2003 (13), 1962-1964
- Lithium perchlorate diethyl ether/methyl triflate catalyzed transfer of silicon 2003  
 from oxygen to carbon in silyl ketene (thio) acetals  
 A Heydari, R Alijanianzadeh  
 Chemistry letters 32 (3), 226-227
- US Patent 4084953 US Patent 4084953 2002  
 A HEYDARI, M MEHRDAD, M SCHAFFIE, MS ABDOLREZAIE, ...  
 Chemistry letters 2002 (11), 1146-1147
- Eur. Pat. Appl. 143078 Eur. Pat. Appl. 143078, 1985 2002  
 A HEYDARI, M MEHRDAD, M SCHAFFIE, MS ABDOLREZAIE, ...  
 Chemistry letters 2002 (11), 1146-1147
- Phosphorous, Sulfur Silicon Phosphorous, Sulfur Silicon 106, 115, 1995 2002  
 A HEYDARI, M MEHRDAD, M SCHAFFIE, MS ABDOLREZAIE, ...  
 Chemistry letters 2002 (11), 1146-1147
- The Binary Reagent  $(\text{MeO})_3\text{P}/\text{Me}_3\text{SiCl}$  and  $(\text{MeO})_3\text{P}/\text{CH}_3\text{CO}_2\text{H}$  in 5.0 M 2002  
 Lithium Perchlorate/Diethyl Ether. An Efficient Route to the Preparation of  $\alpha$ -  
 Hydrazinophosphonates ...  
 A Heydari, M Mehrdad, M Schaffie, MS Abdolrezaie, R Hajinassirei  
 Chemistry letters 31 (11), 1146-1147
- Mannich-Bases. Chemistry and uses Mannich-Bases. Chemistry and uses. 2002

- A HEYDARI, R BAHARFAR, M REZAIE, SM ASLANZADEH  
Chemistry letters 2002 (3), 368-369
- Chemistry Lett. Chemistry Lett. 1997, 1039 2002  
A HEYDARI, R BAHARFAR, M REZAIE, SM ASLANZADEH  
Chemistry letters 2002 (3), 368-369
- J. Chem. Research (s) J. Chem. Research (s) 1994, 486 2002  
A HEYDARI, R BAHARFAR, M REZAIE, SM ASLANZADEH  
Chemistry letters 2002 (3), 368-369
- A Novel, One-Pot Synthesis of  $\alpha$ -C-Cyanohydrazines in the Presence of  
Lithium Perchlorate/Diethylether Solution (5.0 M) 2002  
A Heydari, R Baharfar, M Rezaie, SM Aslanzadeh  
Chemistry letters 31 (3), 368-369
- Organic synthesis in an unconventional solvent, 5.0 M lithium  
perchlorate/diethyl ether 2002  
A Heydari  
Tetrahedron 34 (58), 6777-6793
- A facile one-pot synthesis and temperature dependence of NMR spectra of  
stable heterocyclic phosphorus ylids 2001  
R Baharfar, A Heydari, N Saffarian  
Journal of Chemical Research 2001 (12), 536-537
- Lithium perchlorate/diethyl ether catalyzed one-pot synthesis of  $\alpha$ -  
hydrazinophosphonates from aldehydes by a three-component reaction 2001  
A Heydari, A Javidan, M Schaffie  
Tetrahedron Letters 42 (45), 8071-8073
- One-pot synthesis of N-trimethylsilyloxy- $\alpha$ -amino phosphonates from  
aldehydes using lithium perchlorate/diethyl ether as a catalyst 2001  
A Heydari, M Zarei, R Alijanianzadeh, H Tavakol  
Tetrahedron Letters 42 (21), 3629-3631
- Lithium perchlorate/diethylether-catalyzed three-component coupling  
reactions of aldehydes, hydroxylamines and trimethylsilyl cyanide leading to  
 $\alpha$ -cyanohydroxylamines 2000  
A Heydari, H Larijani, J Emami, B Karami  
Tetrahedron Letters 41 (14), 2471-2473
- 有機合成化学協会誌: JOURNAL OF Synthetic Organic Chemistry JAPAN 1999  
60 (1), 4-16, 2002-01-01  
A HEYDARI R BAHARFAR M REZAIE SM ASLANZADEH

- Lithium perchlorate/diethylether catalyzed aminophosphonation of aldehydes 1998  
A Heydari, A Karimian, J Ipaktschi  
Tetrahedron letters 39 (37), 6729-6732
- Lithium perchlorate/diethylether catalyzed aminocyanation of aldehydes 1998  
A Heydari, P Fatemi, AA Alizadeh  
Tetrahedron letters 39 (19), 3049-3050
- LiClO<sub>4</sub> Induced One Pot Three- Component Aminoalkylation of Aldehydes. 1995  
MR Saidi, A Heydari, J Ipaktschi  
ChemInform 26 (6), no-no
- LiClO<sub>4</sub>- induzierte Dreikomponenten- Aminoalkylierung von Aldehyden 1994  
M Reza Saidi, A Heydari, J Ipaktschi  
Chemische Berichte 127 (9), 1761-1764
- LiClO<sub>4</sub>-Diethylether als Reaktionsmedium in der organischen Chemie 1994  
A Heydari
- Chelat-kontrollierte diastereoelektive Addition and  $\alpha$ ,  $\beta$ -Epoxy-Aldehyde 1994  
J Ipaktschi, A Heydari, HO Kalinowski  
Chemische Berichte 127 (5), 905-909
- LiClO<sub>4</sub>- katalysierte nucleophile Addition an  $\alpha$ - chirale Aldehyde, Aldimine und Oxirane 1993  
J Ipaktschi, A Heydari  
Chemische Berichte 126 (8), 1905-1912
- Alkylation of Quinones by O- Silylated Ketene Acetals in LiClO<sub>4</sub>/Ether as Reaction Medium. 1992  
J IPAKTSCHI, A HEYDARI  
ChemInform 23 (37), no-no
- Allylierung von Chinonen mit Allylsilan in Gegenwart von Lithiumperchlorat in Ether 1992  
J Ipaktschi, A Heydari  
Angewandte Chemie 104 (3), 335-336
- Allylation of Quinones with Allylsilane in the Presence of Lithium Perchlorate in Ether 1992  
J Ipaktschi, A Heydari  
Angewandte Chemie International Edition in English 31 (3), 313-314
- 高極性反応場を用いるカチオンディールス・アンダー反応の開発と天 1992

A HEYDARI, R BAHARFAR, M REZAIE, SM ASLANZADEH, ...  
Tetrahedron Lett 33, 1817

Alkylierung von Chinonen mit O-silylierten Ketenacetalen in LiClO<sub>4</sub>/Ether als Reaktionsmedium 1992

J Ipaktschi, A Heydari  
Chemische Berichte 125 (6), 1513-1515

### Conferences

The 23rd Iranian Seminar of Organic Chemistry  
S Kazemi, A Mobinikhaledi, M Zendehtdel

The 23rd Iranian Seminar of Organic Chemistry  
A Rahmani, I Mohammadpoor-Baltork, AR Khosropour, M Moghadam, ...

The 16th Iranian Chemistry Congress  
S Mahdudia, D Saberria, A Heydari

ONE-POT SYNTHESIS OF  $\alpha$ -SUBSTITUTED HYDROXYLAMINES  
USING LPDE 5M  
H Tavakol, A Heydari

Social Sciences in Iran: An analysis of research output of Iranian scholars  
(1966-2005)  
M Yalpani, A Heydari, M Mehrdadc

### Courses

- Medicinal Chemistry
- Chemistry in Microbiotechnology
- Industrial chemistry
- Synthesis of organic compounds
- Organometallic chemistry
- Catalysis chemistry



## Experimental Skills

- More 30 years work in the organic chemistry laboratory

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13. Marzban Arefi
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14. Nafiseh Ahmadi Taheri
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26. Mohsen Mamad Gholi
27. Masoud Sadeghi
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29. Samaneh Mahmoudi
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31. Meghdad Karimi
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50. Fezaeh Ahmadi
51. Hossein Khadir
52. Nilofar Kermani
53. Saboura Tolouei
54. Seyed Kazem Fadaye Hosseini