

Bahram Bahramian

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Educational History:

-B.Sc. in Chemistry – University of Isfahan - Iran

-M.Sc. in Inorganic Chemistry - University of Tarbiat Modares - Iran

-Ph.D in Inorganic Chemistry – University of Isfahan – Iran

Topic of thesis: **Biomimetic oxidation of organic compounds using Schiff base complexes , supported Schiff base complexes**

Research Interests:

1. Biomimetic Systems
2. Synthesis of Complexes
3. Synthesis of Nanomaterials
4. Nano-catalyst
5. Photocatalyst
6. Metal-Organic Framework (MOF)

ARTICLES

Application of surface modified nano ferrite nickel in catalytic reaction (epoxidation of alkenes) and investigation on its antibacterial and antifungal activities

FM Golkhatmi, **B Bahramian**, M Mamarabadi
Materials Science and Engineering: C 78, 1-11

- Acetylacetonate complexes of vanadium and molybdenum supported on functionalized boehmite nano-particles for the catalytic epoxidation of alkenes

M Mirzaee, **B Bahramian**, J Gholizadeh, A Feizi, R Gholami
Chemical Engineering Journal 308, 160-168

- Boehmite nano-particles functionalized with silylpropylamine-supported Keggin-type heteropolyacids: Catalysts for epoxidation of alkenes

M Mirzaee, B Bahramian, A Ashrafian, A Amoli
Applied Organometallic Chemistry

- ❑ **TiO₂/nanoclinoptilolite as an efficient nanocatalyst in the synthesis of substituted 2-aminothiophenes**
 F Javadi, R Tayebee, B Bahramian
 Applied Organometallic Chemistry
- ❑ **Amine-functionalized boehmite nanoparticle-supported molybdenum and vanadium complexes: Efficient catalysts for epoxidation of alkenes**
 M Mirzaee, B Bahramian, M Mirebrahimi
 Chinese Journal of Catalysis 37 (8), 1263-1274
- ❑ **Preparation and characterization of CuInS₂ absorber layers by sol-gel method for solar cell applications**
 MH Amerioun, ME Ghazi, M Izadifard, B Bahramian
 The European Physical Journal Plus 131 (4), 113
- ❑ **Fabrication of CuInS₂/CNTs absorber layers by sol-gel method**
 MH Amerioun, ME Ghazi, M Izadifard, B Bahramian
 Materials Science in Semiconductor Processing 38, 149-156
- ❑ **Schiff base-functionalized boehmite nanoparticle-supported molybdenum and vanadium complexes: efficient catalysts for the epoxidation of alkenes**
 M Mirzaee, B Bahramian, A Amoli
 Applied Organometallic Chemistry 29 (9), 593-600
- ❑ **Synthesis and application of multiple rods gold-zinc oxide nanostructures in the photocatalytic degradation of methyl orange**
 M Arab Chamjangali, G Bagherian, B Bahramian, B Fahimi Rad
 International Journal of Environment Science and Technology 12 (1), 151-160
- ❑ **Synthesis and application of multiple rods gold-zinc oxide nanostructures in the photocatalytic degradation of methyl orange**
 MA Chamjangali, G Bagherian, B Bahramian, BF Rad
 International Journal of Environmental Science and Technology 12 (1), 151-160
- ❑ **A novel 1, 2, 4-triazine-functionalized polystyrene resin-supported Pd (II) complex: A copper- and solvent-free highly efficient catalyst for Sonogashira coupling reacti...**
 M Bakherad, B Bahramian, S Jajarmi
 Journal of Organometallic Chemistry 749, 405-409
- ❑ **Copper-and Solvent-free Sonogashira Reaction Catalyzed by Polyvinyl Chloride-supported Palladium (II) Triazole Complex**
 M Bakherad, A Keivanloo, B Bahramian, M Siavoshi
 Letters in Organic Chemistry 10 (10), 758-763
- ❑ **One-dimensional mercury (II) coordination polymers with a flexible bidentate Schiff base ligand (Me₂N-Ba) 2Bn: Synthesis, characterization, and crystal structures**
 AD Khalaji, B Bahramian, K Jafari, K Fejfarova, M Dusek
 Russian Journal of Coordination Chemistry 39 (12), 877-884
- ❑ **[Cu₂(μ-Me₂N-ba) 2bn] n, 1D coordination polymer of copper (I) iodide: synthesis, characterization, and crystal structure**
 AD Khalaji, K Jafari, B Bahramian, K Fejfarova, M Dusek
 Monatshefte für Chemie-Chemical Monthly 144 (11), 1621-1626

- ❑ [Suzuki, Heck, and copper-free Sonogashira reactions catalyzed by 4-amino-5-methyl-3-thio-2, 4-triazole-functionalized polystyrene resin-supported Pd \(II\) under...](#)
M Bakherad, A Keivanloo, B Bahramian, S Jajarmi
Journal of Organometallic Chemistry 724, 206-212
- ❑ [\[4-Bromo-N-\(pyridin-2-ylmethylidene\) aniline-κ2N, N'\] iodido \(triphenylphosphane-κP\) copper\(I\)](#)
AD Khalaji, B Bahramian, K Jafari, K Fejfarová, M Dušek
Acta Crystallographica Section E: Structure Reports Online 68 (7), m1001-m1002
- ❑ [Chemically Modified Polystyrene with a Synthesized N 3 O 2 Schiff Base as a New Solid Phase Sorbent for on Line Preconcentration and Determination of Copper \(I...](#)
MA Chamjangali, S Kalvani, B Bahramian
Eurasian Journal of Analytical Chemistry 6 (3)
- ❑ [Synthesis and application of chloromethylated polystyrene modified with 1-phenyl-1, 2-propanedione-2-oxime thiosemicarbazone \(PPDOT\) as a new sorbent for the...](#)
MA Chamjangali, G Bagherian, A Mokhlesian, B Bahramian
Journal of hazardous materials 192 (3), 1641-1649
- ❑ [Sequential eluent injection technique as a new approach for the on-line enrichment and speciation of Cr \(III\) and Cr \(VI\) species on a single column with FAAS detec...](#)
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Journal of hazardous materials 192 (2), 813-821
- ❑ [Coupling Reaction of Acid Chlorides with Terminal Alkynes Catalyzed by Diatomite-Supported Palladium \(II\) Salophen Complex](#)
M Bakherad, A Keivanloo, B Bahramian, Z Kalantar, F N Ashrafi
Letters in Organic Chemistry 8 (5), 364-367
- ❑ [The first heterogeneous Sonogashira coupling reaction of aryl halides with terminal alkynes catalyzed by diatomite-supported palladium \(II\) salophen complex](#)
B Bahramian, M Bakherad, A Keivanloo, Z Bakherad, B Karrabi
Applied Organometallic Chemistry 25 (6), 420-423
- ❑ [Synthesis of α, β-Acetylenic Ketones with Polystyrene-Supported ZnBr₂](#)
A Keivanloo, M Bakherad, B Bahramian, M Rahmani, SAN Taheri
Synfacts 2011 (04), 0459-0459
- ❑ [Silica-supported zinc bromide \(ZnBr₂/SiO₂\): a highly efficient heterogeneous catalyst for coupling acid chlorides with terminal alkynes](#)
A Keivanloo, M Bakherad, B Bahramian, S Baratnia
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- ❑ [Synthesis of ynones via recyclable polystyrene-supported palladium \(0\) complex catalyzed acylation of terminal alkynes with acyl chlorides under copper-and solve...](#)
M Bakherad, A Keivanloo, B Bahramian, S Jajarmi
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- ❑ [Polystyrene-Supported Zinc Bromide-Ethylenediamine Complex as a Reusable and Highly Efficient Heterogeneous Catalyst for the Synthesis of α, β-Acetylenic Keto...](#)
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Synthesis 2011 (02), 325-329

- ❑ **Copper-and solvent-free Sonogashira coupling reactions of aryl halides with terminal alkynes catalyzed by 1-phenyl-1, 2-propanedione-2-oxime thiosemi-carbazon...**
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- ❑ **Copper-and phosphine-free Sonogashira coupling reactions of aryl iodides catalyzed by an N,N-bis (naphthylideneimino) diethylenetriamine-functionalized polystyr...**
M Bakherad, AH Amin, A Keivanloo, B Bahramian, M Raeissi
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- ❑ **Using Pd–salen complex as an efficient catalyst for the copper-and solvent-free coupling of acyl chlorides with terminal alkynes under aerobic conditions**
M Bakherad, AH Amin, A Keivanloo, B Bahramian, M Raessi
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- ❑ **A Coupling Reaction of Acid Chlorides with Alkynes Using a PS-Pd Complex**
M Bakherad, A Keivanloo, B Bahramian, M Rajaie
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- ❑ **Application of chloromethylated polystyrene functionalized with N, N-bis (naphthylideneimino) diethylenetriamine in an on-line preconcentration system for the deter...**
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- ❑ **A copper-and solvent-free coupling of acid chlorides with terminal alkynes catalyzed by a polystyrene-supported palladium (0) complex under aerobic conditions**
M Bakherad, A Keivanloo, B Bahramian, M Rajaie
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- ❑ **APPLICATION OF CHLOROMETHYLATED POLYSTYRENE FUNCTIONALIZED WITH N, N-BIS (NAPHTHYLIDENEIMINO) DIETHYLENETRIAMINE IN AN ON-LINE...**
CM ARAB, FS TALEBZADEH, B BAHRAMIAN
JOURNAL OF HAZARDOUS MATERIALS 173 (13), 843-850
- ❑ **Synthesis and application of a functionalized polystyrene resin for on-line preconcentration and determination of cobalt (II) in water samples by flow injection/FAAS**
MA Chamjangali, L Sharif-Razavian, B Bahramian, G Bagherian
Journal of the Brazilian Chemical Society 21 (3), 525-532
- ❑ **A diphenylphosphinoethane-functionalized polystyrene resin-supported Pd (0) complex as an effective catalyst for copper-free Sonogashira coupling reactions unde...**
M Bakherad, A Keivanloo, B Bahramian, S Mihanparast
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- ❑ **Copper-free Sonogashira coupling reactions catalyzed by a water-soluble Pd–salen complex under aerobic conditions**
M Bakherad, A Keivanloo, B Bahramian, M Hashemi
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- ❑ **Polystyrene-supported Palladium (II) Ethylenediamine Complex: A Recyclable Catalyst for the Syntheses of 2-Benzyl-imidazo [2, 1-b][1, 3] benzothiazoles by Sono...**
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- ❑ **Synthesis of novel 6-(substituted benzyl) imidazo [2, 1-b][1, 3] thiazole catalyzed by polystyrene-supported palladium (ii) ethylenediamine complex**
M Bakherad, A Keivanloo, B Bahramian, TA Kamali
Journal of the Brazilian Chemical Society 20 (5), 907-912
- ❑ **Effect of bulky substitution on catalytic activity of a manganese salen complex used in biomimetic alkene epoxidation and alkane hydroxylation with sodium periodate**
V Mirkhani, M Moghadam, S Tangestaninejad, B Bahramian
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- ❑ **Diatomite-supported manganese Schiff base: An efficient catalyst for oxidation of hydrocarbons**
B Bahramian, FD Ardejani, V Mirkhani, K Badii
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- ❑ **Biomimetic alkene epoxidation and alkane hydroxylation with sodium periodate catalyzed by Mn (III)-salen supported on Amberlite IRA-200**
V Mirkhani, M Moghadam, S Tangestaninejad, B Bahramian
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- ❑ **Host (nanocavity of zeolite-Y)-guest (manganese (III) salophen complex) nanocomposite materials: An efficient catalyst for biomimetic alkene epoxidation and alkan...**
V Mirkhani, M Moghadam, S Tangestaninejad, B Bahramian, ...
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- ❑ **Water-soluble manganese (III) salen complex as a mild and selective catalyst for oxidation of alcohols**
B Bahramian, V Mirkhani, M Moghadam, AH Amin
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- ❑ **Polystyrene-bound 1, 4-phenylenediamine as a heterogeneous axial ligand for Mn (salophen) Cl and its use as biomimetic alkene epoxidation and alkane hydroxyl...**
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- ❑ **Silica-bound imidazole as a heterogeneous axial ligand for Mn (salophen) Cl: Efficient, recoverable and recyclable catalyst for epoxidation of alkenes and hydroxylat...**
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- ❑ **Polystyrene-bound imidazole as a heterogeneous axial ligand for Mn (salophen) Cl and its use as biomimetic alkene epoxidation and alkane hydroxylation catalyst...**
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Applied Catalysis A: General 311, 43-50
- ❑ **Manganese (III) salen immobilized on montmorillonite as biomimetic alkene epoxidation and alkane hydroxylation catalyst with sodium periodate**
B Bahramian, V Mirkhani, M Moghadam, S Tangestaninejad
Catalysis Communications 7 (5), 289-296

- ❑ **Selective alkene epoxidation and alkane hydroxylation with sodium periodate catalyzed by cationic Mn (III)-salen supported on Dowex MSC1**
B Bahramian, V Mirkhani, M Moghadam, S Tangestaninejad
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- ❑ **Catalytic epoxidation of olefins and hydroxylation of alkanes with sodium periodate by water-soluble manganese (III) salen**
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- ❑ **Comparative Evaluation of High Performance Liquid Chromatography (HPLC) & Fluorescent Polarization Immunoassay (FPIA) Methods in Measuring Blood Concen...**
B Bahramian, AR Sadeghipoor, H Darvish Ali
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- ❑ **Effect of Annealing Temperature on Structural, Optical, and Electrical Properties of Sol-Gel Spin-Coating-Derived Cu₂ZnSnS₄ Thin Films**
R Hosseinpour, M Izadifard, ME Ghazi, B Bahramian
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