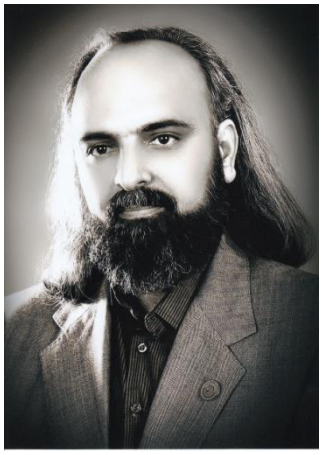
Prof. Majid Moghadam

Curriculum Vitae



Name: Majid

Family: Moghadam

Birthday: November 21,1971, Shiraz

Marriage: Married, 3 children

Prof. of Inorganic Chemistry (2009), University of Isfahan

Associate Prof. of Inorganic Chemistry (2005-2009), **University of Isfahan**

Assistant Prof. of Inorganic Chemistry (2001-2005), **Yasouj University**

Educations:

B. Sc. In Pure Chemistry, Shiraz University, 1994, Iran

M. Sc. In Inorganic Chemistry, University of Isfahan, 1996, Iran

Ph. D. In Inorganic Chemistry, University of Isfahan, 2001, Iran

Ph. D. Thesis Title:

Biomimetic oxidation of hydrocarbons with sodium periodate catalyzed by supported metalloporphyrins and investigation of Lewis acid character of Tin (IV) porphyrin perchlorate.

M. Sc. Thesis Title:

Biomimetic oxidation of hydrocarbons with sodium periodate catalyzed by supported metalloporphyrins.

Courses Thought:

Advanced Inorganic Chemistry (M. Sc.)

Kinetics and Thermodynamics of Inorganic Compounds (M. Sc.)

Spectroscopy of Inorganic Compounds (M. Sc.)

Inorganic Chemistry (I, II)

Organometallic Chemistry

Group Theory and Symmetry

Foundamentals of Chemical Industries

Inorganic Polymers (Ph. D.)

Inorganic Photochemistry (Ph. D.)

Research fields:

Homogeneous and heterogeneous catalysts including: metalloporphyrins, Schiff base complexes and polyoxometalates

Photochemistry

Nanochemistry

Resaerch Projects:

1. The effect of ultrasonic irradiation on the organic reactions
2. Preparation of heterogeneous metalloporphyrins and their uses in the oxidation of organic compounds
3. Preparation and catalytic application of nanocages in organic reactions
4. Application of Zirconum salts in organic synthesis

Honors and Activities:

Head of Department of Chemistry, Yasouj University, 2001-2003

Distinguished researcher of the Yasouj University, 2003

Distinguished researcher of the Yasouj University, 2005

Distinguished researcher of the University of Isfahan, 2009

Distinguished researcher of the Isfahan Province, 2009

Distinguished researcher of the University of Isfahan, 2011

Head of Department of Nanotechnology Engineering, 2009-2011

Distinguished researcher of the Isfahan Province, 2011

Distinguished Prof. Of Inorganic chemistry, Iran, 2011

Executive member of the Iranian Chemical Society, 2006-now

Highly cited ISI Scientist, 2012-now

Managing Editor of the "Inorganic Chemistry Reasearch" Journal

Head of Department of Inorganic Chemistry, 2014-now

Publications:

2016

---

276. Rezaei. S.; Landarani-Isfahani A.; **Moghadam M**.; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I. (2016) Mono- and multifold C–C coupling reactions catalyzed by a palladium complex encapsulated in MIL-Cr as a three dimensional nano reactor. *RSC Advances*, **6**, 92463–92472.
http://dx.doi.org/10.1039/c6ra11212a

275. Kazemi Z.; Amiri Rudbari H.; Sahihi M.; Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I.; Azimi G.; Gharaghani S.; Abbasi Kajani A. (2016) Synthesis, characterization and separation of chiral and achiral diastereomers of Schiff base Pd(II) complex: A comparative study of their DNA- and HSA-binding. *Journal of Photochemistry and Photobiology B: Biology*, **163**, 246–260.
http://dx.doi.org/10.1016/j.jphotobiol.2016.08.035

274. Kazemi Z.; Amiri Rudbari H.; Sahihi M.; Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I.; Gharaghani S. (2016) Synthesis, characterization and biological application of four novel metal-Schiff base complexes derived from allylamine and their

interactions with human serum albumin: Experimental, molecular docking and ONIOM computational study. *Journal of Photochemistry and Photobiology B: Biology*, **162**, 448-462. http://dx.doi.org/10.1016/j.jphotobiol.2016.07.003

273. Asadi B.; Mohammadpoor-Baltork I.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Landarani-Isfahani A. (2016) Synthesis and characterization of Bi(III) immobilized on triazine dendrimer-stabilized magnetic nanoparticles: a reusable catalyst for synthesis of aminonaphthoquinones and bis-aminonaphthoquinones. *New Journal of Chemistry*, **40**, 6171-6184. http://dx.doi.org/10.1039/C5NJ03050A

272. Ghotbinejad M.; Khosropour A. R.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2016) Efficient Buchwald-Hartwig reaction catalyzed by SPIONs-Bis(NHC)-Pd(II). *Nanochemistry Research*, **1**, 40-48. http://dx.doi.org/10.7508/ncr.2016.01.005

271. Zarrinjahan A.; **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Mohammadpoor‐ Baltork I. (2016) Graphene oxide nanosheets supported manganese(III) porphyrin: a highly efficient and reusable biomimetic catalyst for epoxidation of alkenes with sodium periodate. *Journal of The Iranian Chemical Society*, **13**, 1509–1516. http://dx.doi.org/10.1007/s13738-016-0867-1

270. Hatefi Ardakani M.; **Moghadam M.**; Saeednia S.; Pakdin‐ Parizi Z. (2016) Epoxidation of alkenes with $NaIO_4$ catalyzed by an efficient and reusable natural polymer-supported ruthenium(III) salophen catalyst. *Journal of The Iranian Chemical Society*, **13**, 631–636. http://dx.doi.org/10.1007/ s13738-015-0774-x

269. Zarnegaryan A.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I. (2016) Synthesis and characterization of a novel polyoxometalate–Cu(II) hybrid catalyst for efficient synthesis of triazols. *Polyhedron*, **115**, 61–66. http://dx.doi.org/10.1016/j.poly.2016.02.003

268. Daneshvar A.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Khalili A. (2016) Ruthenium Hydride Complex Supported on Gold Nanoparticle Cored Triazine Dendrimers for C−C Coupling Reactions. *Organometallics*, **35**, 1747−1755.

http://dx.doi.org/10.1021/acs.organomet.6b00163

267. Hajian R.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I. (2016) [Mn(TPPS)] immobilized on ionic liquid-modified silica as a heterogeneous and reusable catalyst for epoxidation of alkenes with $NaIO_4$ under ultrasonic irradiation. *Journal of The Iranian Chemical Society*, **13**, 1061–1067.
http://dx.doi.org/10.1007/s13738-016-0820-3

266. Rahmani F.; Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2016) Efficient one-pot synthesis of new fused pyridines and bis-pyridines catalyzed by triazine diphosphonium hydrogen sulfate ionic liquid supported on functionalized nano-silica. *Tetrahedron Letters*, **57**, 2294–2297.
http://dx.doi.org/10.1016/j.tetlet.2016.04.053

265. Pahlevanneshan Z.; **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I.; Loghmani-Khouzani H. (2016) A new N–heterocyclic carbene palladium complex immobilized on nano silica: An efficient and recyclable catalyst for Suzuki–Miyaura C–C coupling reaction. *Journal of Organometallic Chemistry*, **809**, 31-37.
http://dx.doi.org/10.1016/j.jorganchem.2016.02.019

264. Soltani M.; Mohammadpoor-Baltork I.; Khosropour A. R., **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2016) Convenient synthesis of polysubstituted pyrroles and symmetrical and unsymmetrical bis-pyrroles catalyzed by $H_3PW_{12}O_{40}$. *Comptes Rendus Chimie*, **19**, 381-389.
http://dx.doi.org/10.1016/j.crci.2015.11.006

263. Nasirian A.; Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I.; Keshavarzi R. (2016) Highly Efficient Dye-Sensitized Solar Cell Prepared by Electrophoretic Deposition Method: the Effect of TiO_2 Films Thickness on the Performance of Cells. *Applied Solar Energy*, **52**, 32–39.
http://dx.doi.org/10.3103/S0003701X16010072

262. Tavassoli M.; Landarani-Isfahani A.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I. (2016) Copper Dithiol Complex Supported on Silica Nanoparticles: A Sustainable, Efficient, and Eco-friendly Catalyst for Multicomponent Click Reaction. *ACS Sustainable Chemistry & Engineering*, **4**, 1454–1462.

http://dx.doi.org/10.1021/acssuschemeng.5b01432

261. Zarnegaryan A.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I. (2016) A graphene oxide immobilized Cu(II) complex of 1,2-*bis*(4-aminophenylthio)ethane: an efficient catalyst for epoxidation of olefins with *tert*-butyl hydroperoxide. *New Journal of Chemistry*, **40**, 2280-2286.
http://dx.doi.org/10.1039/C5NJ02309B

260. Mohammadiannejad-Abbasabadi K.; Mohammadpoor-Baltork I.; Tangestaninejad S.; **Moghadam M.**; Mirkhani M.; Kia K. (2016) $Bi(OTf)_3$-catalysed domino Friedel–Crafts alkylation of arenes with aldehydes: an upgraded method for efficient synthesis of triarylmethanes and anthracene derivatives. *Tetrahedron*, **72**, 1433-1439.
http://dx.doi.org/10.1016/j.tet.2016.01.041

259. Asadniaye Fardjahromi M.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I. (2016) Manganese(III)salophen supported on a silica containing triazine dendrimer: an efficient catalyst for epoxidation of alkenes with sodium periodate. *RSC Advances*, **6,** 20128–20134**.**
http://dx.doi.org/10.1039/c5ra18931d

258. Kardanpour R.; Tangestaninejad S.; Mirkhani V.; **Moghadam** M.; Mohammadpoor-Baltork I.; Zadehahmadi F. (2016) Anchoring of Cu(II) onto surface of porous metal-organic framework through post-synthesis modification for the synthesis of benzimidazoles and benzothiazoles. *Journal of Solid State Chemistry*, **235**, 145–153.
http://doi.org/10.1016/j.jssc.2015.11.019

2015

257. Khojasteh H.; Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I. (2015) Palladium Loaded on Magnetic Nanoparticles as Efficient and Recyclable Catalyst for the Suzuki- Miyaura Reaction. *Journal of Nanostrucures*, **5**, 271-280.
http://dx.doi.org/10.7508/jns.2015.03.009

256. Assady E.; Yadollahi B.; Riahi Farsani M.; **Moghadam M.** (2015) Zinc polyoxometalate on activated carbon: an efficient catalyst for selective oxidation of alcohols with hydrogen peroxide. *Applied Organometallic Chemistry*, **29**, 561-565.
http://dx.doi.org/10.1002/aoc.3332

255. Samani Ghaleh Taki B.; Rostami M.; Mirkhani V.; **Moghadam M.**; Mohammadpoor-Baltork I.; Tangestaninejad S.; Jamali Moghadam A.; Kia R. (2015) Catalyst-Free and Green Synthesis of Some Novel Benzamide Derivatives. *Journal of Heterocyclic Chemistry*, **52**, 1848-1857.
http://dx.doi.org/10.1002/jhet.2275

254. Pahlevanneshan Z.; **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I.; Rezaei S. (2015) Suzuki–Miyaura C–C coupling reactions catalysed by a homogeneous and nanosilica supported palladium(II) N-heterocyclic carbene complex derived from 3,5-di(1-imidazolyl)pyridine. *New Journal of Chemistry*, **39**, 9729-9734.
http://dx.doi.org/10.1039/c5nj01517k

253. Keshavarzi R.; Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I. (2015) Performance Enhancement of Dye-Sensitized Solar Cells Based on TiO_2 Thick Mesoporous Photoanodes by Morphological Manipulation, *Langmuir*, **31**, 11659−11670.
http://dx.doi.org/10.1021/acs.langmuir.5b02718

252. Tavassoli M.; Landarani-Isfahani A.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork (2015) Polystyrene-supported ionic liquid copper complex: A reusable catalyst for one-pot three-component click reaction. *Applied Catalysis A: Genaral*, **503**, 186-196.
http://dx.doi.org/10.1016/j.apcata.2015.07.015

251. Landarani-Isfahani A.; Taheri-Kafrani A.; Amini M.; Mirkhani V.; **Moghadam M.**; Soozanipour A.; Razmjou A. (2015) Xylanase Immobilized on Novel Multifunctional Hyperbranched Polyglycerol-Grafted Magnetic Nanoparticles: An Efficient and Robust Biocatalyst, *Langmuir*, **31**, 9219−9227.
http://dx.doi.org/10.1021/acs.langmuir.5b02004

250. Salami-Ranjbaran E.; Khosropour A. R.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2015) A Novel pseudo-Four-Component Domino Reaction for the Synthesis of Naphtho[2,1-b]furan-2(1H)-ones Using a Nanocatalyst. *ACS Combinatorial Science*, **17,** 452−458.
http://dx.doi.org/10.1021/acscombsci.5b00018

249. Pahlevanneshan Z.; **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I.; Rezaei S. (2015) Sulfonated palladium(II) N-heterocyclic carbine complex immobilized on nano–micro size poly(4-vinylpyridinium chloride) for Suzuki–Miyaura cross-coupling reaction. *Applied Organometallic Chemistry*, **29**, 678–682.
http://dx.doi.org/ 10.1002/aoc.3350

248. Soltani M.; Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2015) Efficient synthesis of 2-arylindoles, 2-arylimidazo[1,2-*a*]pyridines and 2-arylquinoxalines, and their *bis*-derivatives using [Hmim]OTf ionic liquid supported on nano-silica as a reusable catalyst. *Journal of the Iranian Chemical Society*, **12**, 1369-1380.
http://dx.doi.org/10.1007/s13738-015-0603-2

247. Kazemi Z.; Amiri Rudbari H.; Mirkhani V.; Sahihi M.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I. (2015) Synthesis, characterization, crystal structure, DNA- and HSA-binding studies of a dinuclear Schiff base Zn(II) complex derived from 2-hydroxynaphtaldehyde and 2-picolylamine. *Journal of Molecular Structure*, **1096**, 110-120.
http://dx.doi.org/10.1016/j.molstruc.2015.04.033

246. Pahlevanneshan Z.; **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I.; Khosropour A. R. (2015) Immobilization of palladium(II)-containing bis(imidazolium) ligand on ion-exchange resins: efficient and reusable catalysts for C–C coupling reactions. *Applied Organometallic Chemistry*, **29**, 346–352.
http://dx.doi.org/10.1002/aoc.3297

245. Rahmani F.; Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2015) Propylphosphonium hydrogen carbonate ionic liquid supported on nano-silica as a reusable catalyst for the efficient multicomponent synthesis of fully substituted pyridines and *bis*-pyridines. *RSC Advances*, **5**, 39978-39991.
http://dx.doi.org/10.1039/c5ra03569d

244. Kardanpour R.; Tangestaninejad S.; Mirkhani V.; **Moghadam M.**; Mohammadpoor-Baltork Zadehahmadi F. (2015) Efficient alkene epoxidation catalyzed by molybdenyl acetylacetonate supported on aminated UiO-66 metal–organic framework. *Journal of Solid State Chemistry*, **226**, 262-272.
http://dx.doi.org/10.1016/j.jssc.2014.11.020

243. Zadehahmadi F.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I.; Kardanpour R. (2015) Highly efficient protection of alcohols and phenols catalysed by tinporphyrin supported on MIL-101. *Applied Organometallic Chemistry*, **29**, 209–215. http://dx.doi.org/10.1002/aoc.3270

242. Pourshahrestani S.; Mohammadpoor-Baltork I.; **Moghadam M.**; Khosropour A. R.; Tangestaninejad S.; Mirkhani V. (2015) Bismuth triflate, $Bi(OTf)_3$, as an efficient and reusable catalyst for synthesis of dihydropyrano[3,2-*b*]chromenediones. *Journal of the Iranian Chemical Society*, **12**, 573–580. http://dx.doi.org/10.1007/s13738-014-0514-7

241. Rastegari F.; Mohammadpoor-Baltork I.; Khosropour A. R.; Tangestaninejad S.; Mirkhani V.; Moghadam M. (2015) 1-Methyl-3-(propyl-3-sulfonic acid)imidazolium triflate supported on magnetic nanoparticles: an efficient and reusable catalyst for synthesis of mono- and bis-isobenzofuran-1(3H)-ones under solvent-free conditions. *RSC Advances*, **5**, 15274-15282. http://dx.doi.org/10.1039/C4RA14112A

240. Keshavarzi R.; Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I. (2015) Highly efficient dye sensitized solar cells based on ordered and disordered mesoporous titania thick templated films, *Journal of Materials Chemistry A*, **3**, 2294-2304. http://dx.doi.org/10.1039/c4ta05852f

239. Nasirian A.; Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I. (2015) Effect of suspension media on the structure of TiO_2 films prepared by electrophoretic deposition method in dye-sensitized solar cells. *Journal of the Iranian Chemical Society*, **12**, 529-536. http://dx.doi.org/10.1007/s13738-014-0510-y

238. Moshref Javadi M.; **Moghadam M.**; Mohammadpoor-Baltork I.; Tangestaninejad S.; Mirkhani V. (2015) Epoxidation of alkenes and oxidation of sulfides catalyzed by a new binuclear vanadium bis-oxazoline complex. *Journal of the Iranian Chemical Society*, **12,** 477–485. http://dx.doi.org/10.1007/s13738-014-0505-8

237. Meghdadi S.; Mirkhani V.; Kia R.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I. (2015) Direct electrochemical synthesis of copper(II) and zinc(II) complexes of the tetradentate ligand *N,N′-bis*(2-pyridinecarboxamide)-2-aminobenzylamine (H_2bpabza). The crystal structures of the ligand and its Cu(II) complex. *Polyhedron*, **85**, 519-524.
10.1016/j.poly.2014.08.065

236. Zadehahmadi F.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I.; Khosropour A. R.; Kardanpour R. (2015) Catalytic CO_2 fixation using tin porphyrin supported on organic and inorganic materials under mild conditions. *Journal of Molecular Catalysis A: Chemical*, **398,** 1-10.
http://dx.doi.org/10.1016/j.molcata.2014.10.030

2014

235. Zadehahmadi F.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I.; Khosropour A. R.; Kardanpour R. (2014) Synthesis and characterization of mangenese(III) porphyrin supported on imidazole modified chloromethylated MIL-101(Cr): A heterogeneous and reusable catalyst for oxidation of hydrocarbons with sodium periodate. *Journal of Solid State Chemistry*, **218**, 56-63.
http://dx.doi.org/10.1016/j.jssc.2014.05.016

234. Shafiee M.; Khosropour A. R.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Khavasi H. R. (2014) Green and diastereoselective synthesis of *trans*-3-(5-methylisoxazol-3-yl)-3,4-dihydro-2H-naphtho[2,3-e][1,3]oxazines. *Iranian Journal of Catalysis*, **4**, 133-141.

233. Rostami M.; Khosropour A. R.; Mirkhani V.; Mohammadpoor-Baltork I.; Moghadam M.; Tangestaninejad S. (2014) $[C_6(MIm)_2]_2W_{10}O_{32}$ catalyzed efficient one-pot pseudo-four component synthesis of AT-130 analogues under microwave irradiations. *Journal of the Iranian Chemical Society*, **11**, 1493–1501.
http://dx.doi.org/10.1007/s13738-014-0420-z

232. Landarani Isfahani A.; Mohammadpoor-Baltork I.; Mirkhani V.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S. (2014) Pd Nanoparticles Immobilized on Nanosilica Triazine Dendritic Polymer: A Reusable Catalyst for the Synthesis of Mono-, Di-, and Trialkynylaromatics by Sonogashira Cross-Coupling in Water. *European Journal of Organic Chemistry*, **2014**, 5603–5609.

http://dx.doi.org/10.1002/ejoc.201402503

231. Saeedi M. S.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I.; Khosropour A. R. (2014) Manganese porphyrin immobilized on magnetite nanoparticles as a recoverable nanocatalyst for epoxidation of olefins. *Materials Chemistry and Physics*, **146**, 113-120.
http://dx.doi.org/10.1016/j.matchemphys.2014.03.007

230. Kardanpour R.; Tangestaninejad S.; Mirkhani V.; **Moghadam M.**; Mohammadpoor-Baltork I.; Khosropour A. R.; Zadehahmadi F. (2014) Highly dispersed palladium nanoparticles supported on amino functionalized metal-organic frameworks as an efficient and reusable catalyst for Suzuki cross-coupling reaction. *Journal of Organometallic Chemistry*, **761**, 127-133.
http://dx.doi.org/10.1016/j.jorganchem.2014.03.012

229. Bagheri O.; Sadegh F.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Safiri M. (2014) Carbon–carbon coupling reactions catalyzed by supported Pd porphyrins. *Applied Organometallic Chemistry*, **28**, 337–346.
http://dx.doi.org/10.1002/aoc.3131

228. Zadehahmadi F.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I.; Khosropour A. R.; Kardanpour R. (2014) Manganese(III) tetrapyridylporphyrin chloromethylated MIL-101 hybrid material: A highly active catalyst for oxidation of hydrocarbons. *Applied Catalysis A: General*, **477**, 34–41.
http://dx.doi.org/10.1016/j.apcata.2014.03.003

227. Torki M.; Tangestaninejad S.; Mirkhani M.; **Moghadam M.**; Mohammadpoor-Baltork I. (2014) Ru^{III}(OTf)SalophenCH_2–NHSiO_2–Fe: an efficient and magnetically recoverable catalyst for trimethylsilylation of alcohols and phenols with hexamethyldisilazane. *Applied Organometallic Chemistry*, **28**, 304–309.
http://dx.doi.org/10.1002/aoc.3125

226. Sadegh F.; Bagheri O.; **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I. (2014) Palladium(II) *tetrakis*(4-*N*,*N*,*N*-trimethylammoniumphenylene)porphyrin supported on ion-exchange resins as efficient and reusable catalysts for C–C coupling reactions. *Journal of Organometallic Chemistry*, **759**, 46–57.

http://dx.doi.org/10.1016/j.jorganchem.2014.02.006

225. Nasrollahzadeh M.; Rostami-Vartooni A.; Ehsani A.; **Moghadam M.** (2014) Fabrication, characterization and application of nanopolymer supported copper (II) complex as an effective and reusable catalyst for the C–N bond cross-coupling reaction of sulfonamides with arylboronic acids in water under aerobic conditions. *Journal of Molecular Catalysis A: Chemical*, **387**, 123–129.
http://dx.doi.org/10.1016/j.molcata.2014.02.017

224. Mohammadpoor-Baltork I.; **Moghadam M.**; Nasr-Esfahani M.; Khosropour A. R.; Tangestaninejad S.; Mirkhani V.; Agabekov V.; Amiri Rudbari H. (2014) Copper immobilized on nano-silica triazine dendrimer (Cu(II)-TD@nSiO_2) catalyzed synthesis of symmetrical and unsymmetrical 1,3-diynes under aerobic conditions and ambient temperature. *RSC Advances*, **4**, 14291-14296.
http://dx.doi.org/10.1039/C3RA47184E

223. Landarani Isfahani A.; Mohammadpoor-Baltork I.; Mirkhani V.; **Moghadam M.**; Khosropour A. R.; Tangestaninejad S.; Nasr-Esfahani M.; Amiri Rudbari H (2014) Palladium Nanoparticles Immobilized on Nanosilica Triazine Dendritic Polymer (Pdnp-nSTDP) as Catalyst in the Synthesis of Mono-, Di-, and Trisulfides through C–S Cross-Coupling Reactions. *Synlett*, **25**, 645-652.
http://dx.doi.org/10.1055/s-0033-1340501

222. Anvar S.; Mohammadpoor-Baltork I.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Khosropour A. R.; Landarani Isfahani A.; Kia R. (2014) New Pyridinium-Based Ionic Liquid as an Excellent Solvent–Catalyst System for the One-Pot Three-Component Synthesis of 2,3-Disubstituted Quinolines. *ACS Combinatorial Science*, **16**, 93−100.
http://dx.doi.org/10.1021/co400144b

221. Mosafa L.; Shahedi M.; **Moghadam M.** (2014) Magnetite Nanoparticles Immobilized Pectinase: Preparation, Characterization and Application for the Fruit Juices Clarification. *Journal of the Chinese Chemical Society*, **61**, 329-336
http://dx.doi.org/10.1002/jccs.201300347

220. Nasr-Esfahani M.; Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Amiri Rudbari H. (2014) Copper Immobilized on Nanosilica Triazine Dendrimer (Cu(II)-TD@nSiO_2)-Catalyzed Regioselective Synthesis of 1,4-Disubstituted 1,2,3-

Triazoles and Bis- and Tris-Triazoles via a One-Pot Multicomponent Click Reaction. *Journal of Organic Chemistry*, **79**, 1437–1443.
http://dx.doi.org/10.1021/jo402170n

219. Ghotbinejad M.; Khosropour A. R.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2014) SPIONs-bis(NHC)-Palladium(II): A Novel, Powerful and Efficient Catalyst for Mizoroki-Heck and Suzuki-Miyaura C-C Coupling Reactions. *Journal of Molecular Catalysis A: Chemical*, **385**, 78–84.
http://dx.doi.org/10.1016/j.molcata.2014.01.001

218. Moshref Javadi M.; **Moghadam M.**; Mohammadpoor-Baltork I.; Tangestaninejad S.; Mirkhani V.; Kargar H.; Tahir M. N. (2014) Oxidation of alkenes and sulfides catalyzed by a new binuclear molybdenum *bis*-oxazoline complex. *Polyhedron*, **72**, 19–26.
http://dx.doi.org/10.1016/j.poly.2014.01.004

217. Ghotbinejad M.; Khosropour A. R.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2014) Ultrasound-assisted C–C coupling reactions catalyzed by unique SPION-A-Pd(EDTA) as a robust nanocatalyst. *RSC Advances*, **4**, 8590-8596.
http://dx.doi.org/10.1039/C3RA45790G

216. Loghmani-Khouzani H.; Tamjidi P.; Mohammadpoor-Baltork I.; Yaeghoobi M.; Rahman N. A.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Habibi M. H.; Kashima A.; Suzuki T. (2014) Efficient and Eco-friendly Syntheses of 1,5-Benzothiazepines and 1,5-Benzodiazepines Catalyzed by [Hmim][NO_3] under Mild Conditions. *Journal of Heterocyclic Chemistry*, **51**, 138–150.
http://dx.doi.org/10.1002/jhet.1827

215. Safaei S.; Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M**.; Tangestaninejad S.; Mirkhani V. (2014) A novel one-pot three component synthesis of *N*-(phenylimino)indazole-1-carbothioamides. *RSC Advances*, **4**, 2251-2256.
http://dx.doi.org/10.1039/C3RA44064H

2013

214. Mosafa L.; **Moghadam M.**; Shahedi M. (2013) Papain enzyme supported on magnetic nanoparticles: Preparation, characterization and application in the fruit juice clarification. *Chinese Journal of Catalysis*, **34**, 1897–1904.

http://dx.doi.org/10.1016/S1872-2067(12)60663-9

213. Nasr-Esfahani M.; Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Mirkhani V.; Tangestaninejad S. (2013) Synthesis and characterization of Cu(II) containing nanosilica triazine dendrimer: A recyclable nanocomposite material for the synthesis of benzimidazoles, benzothiazoles, *bis*-benzimidazoles and *bis*-benzothiazoles. *Journal of Molecular Catalysis A: Chemical*, **379**, 243-254.
http://dx.doi.org/10.1016/j.molcata.2013.08.009

212. Safaei S.; Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2013) Nano-silica supported acidic ionic liquid as an efficient catalyst for the multi-component synthesis of indazolophthalazine-triones and *bis*-indazolophthalazine-triones. *Catalysis Science and Technology*, **3**, 2717-2722.
http://dx.doi.org/10.1039/c3cy00344b

211. Gharaati S.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Barati B.; Sadegh F. (2013) High-valent tin(IV) porphyrins: Efficient and selective catalysts for cyclopropanation of styrene derivatives with EDA under mild conditions. *Journal of Organometallic Chemistry*, **741–742**, 78-82.
http://dx.doi.org/10.1016/j.jorganchem.2013.05.046

210. Moosavifar M.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I. (2013) Host (nanocavity of zeolite Y)–guest (ruthenium(III) salophen complex) nanocomposite materials: An efficient and reusable catalyst for shape-selective epoxidation of linear alkenes with sodium periodate. *Journal of Molecular Catalysis A: Chemical*, **377**, 92–101.
http://dx.doi.org/10.1016/j.molcata.2013.04.034

209. Safaei, S.; Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2013) Copper(II) ionic liquid catalyzed cyclization-aromatization of hydrazones with dimethyl acetylenedicarboxylate: A green synthesis of fully substituted pyrazoles. *New Journal of Chemistry*, **37**, 2037-2042.
http://dx.doi.org/10.1039/C3NJ40756J

208. Nadealian Z.; Mirkhani V.; Yadollahi B.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I. (2013) Selective oxidation of alkenes using $[bmim]_5[PW_{11}ZnO_{39}]\cdot 3H_2O$ hybrid catalyst. *Journal of the Iranian Chemical Society*, **10**, 777-782.
http://dx.doi.org/10.1007/s13738-012-0212-2

207. Dianat S.; Tangestaninejad S.; Mirkhani V.; **Moghadam M.**; Mohammadpoor-Baltork I. (2013) Preparation, characterization and photocatalytic properties of $InVO_4$ nanopowder and $InVO_4$–TiO_2 nanocomposite toward degradation of azo dyes and formaldehyde under visible light and ultrasonic irradiation. *Journal of the Iranian Chemical Society*, **10**, 535-544.
http://dx.doi.org/10.1007/s13738-012-0191-3

206. Torki M.; Tangestaninejad S.; Mirkhani V.; **Moghadam M.**; Mohammadpoor-Baltork I.; Khosropour A. R. (2013) Nanomagnet-Bound Imidazole as a Heterogeneous Axial Ligand for Mn^{III}(salophen)Cl: An Efficient, Recoverable and Recyclable Catalyst for Epoxidation of Alkenes with Sodium Periodate. *Journal of Inorganic and Organometallic Polymers and Materials*, **23**, 923–929.
http://dx.doi.org/10.1007/s10904-013-9865-2

205. Safaei, S.; Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Khavasi H. R. (2013) One-Pot Three-Component Synthesis of Pyrano[3,2-*b*]pyrazolo[4,3-*e*]pyridin-8(1*H*)-ones. *ACS Combinatorial Science*, **15**, 141–146.
http://dx.doi.org/10.1021/co3001204

204. Samani Ghaleh Taki B.; Mirkhani V.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Rostami M.; Khosropour A. R. (2013) Synthesis and Characterization of Nano Silica Supported Tungstophosphoric Acid: An Efficient, Reusable Heterogeneous Catalyst for the Synthesis of Azlactones. *Journal of Inorganic and Organometallic Polymers and Materials*, **23**, 758-765.
http://dx.doi.org/10.1007/s10904-012-9810-9

203. Safaei, S.; Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Khavasi H. R. (2013) **[**Bmim][$InCl_4$]-Catalyzed Addition of Hydrazones to β-Diketones: An Efficient Regioselective Synthesis of Pyrazoles and Pyrazole-Fused Cyclohexanones. *Synlett*, **24**, 1086-1090.
http://dx.doi.org/10.1055/s-0032-1316900

202. Landarani Isfahani A.; Mohammadpoor-Baltork I.; MirkhaniV.; Khosropour A. R.; Moghadam M.; Tangestaninejad S.; Kia R. (2013) Palladium Nanoparticles Immobilized on Nano-Silica Triazine Dendritic Polymer (Pdnp-nSTDP): An Efficient and Reusable Catalyst for Suzuki–Miyaura Cross-Coupling and Heck Reactions. *Advanced Synthesis & Catalysis*, **355**, 957 – 972. http://dx.doi.org/10.1002/adsc.201200707

201. Fazaeli R.; Aliyan H.; **Moghadam M.**; Masoudinia M. (2013) Nano-rod catalysts: Building MOF bottles (MIL-101 family as heterogeneous single-site catalysts) around vanadium oxide ships. *Journal of Molecular Catalysis A: Chemical*, **374–375**, 46–52. http://dx.doi.org/10.1016/j.molcata.2013.03.020

200. Nadealian Z.; Mirkhani V.; Yadollahi B.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I. (2013) Green and efficient oxidation of benzylic alcohols with hydrogen peroxide catalyzed by an inorganic–organic hybrid catalyst. *Journal of Coordination Chemistry*, **66**, 1264-1275. http://dx.doi.org/10.1080/00958972.2013.779372

199. Barati B.; **Moghadam M.**; Rahmati A.; Mirkhani V.; Tangestaninejad M.; Mohammadpoor-Baltork I. (2013) Direct oxidation of alcohols to carboxylic acids over ruthenium hydride catalyst with diphenyl sulfoxide oxidant. *Inorganic Chemistry Communications*, **29**, 114–117. http://dx.doi.org/10.1016/j.inoche.2012.12.014

198. Barati B.; **Moghadam M.**; Rahmati A.; Mirkhani V.; Tangestaninejad M.; Mohammadpoor-Baltork I. (2013) Ruthenium Hydride Catalyzed Direct Oxidation of Alcohols to Carboxylic Acids *via* Transfer Hydrogenation: Styrene Oxide as Oxygen Source, *Synlett*, **24**, 90-96. http://dx.doi.org/10.1055/s-0032-1317676

197. Kargar H.; **Moghadam M**.; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I.; Rezaei S. (2013) Multi-wall carbon nanotube supported manganese(III) porphyrin: an efficient and reusable catalyst for oxidation of 2-imidazolines with sodium periodate. *Transition Metal Chemistry*, **38**, 1-5. http://dx.doi.org/10.1007/s11243-012-9651-y

196. Shafiee M.; KhosropourA. R.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Khavasi H. R.(2013) Synthesis of trans-1,3-diaryl-2-(5-methylisoxazol-3-yl)-2,3-dihydro-1H-naphtho[1,2-e][1,3]oxazines via bismuth(III)-catalyzed one-pot pseudo-four component reaction. *Molecular Diversity*, **16**, 727-734.
http://dx.doi.org/10.1007/s11030-012-9408-8

195. Saeedi M. S.; Tangestaninejad S.; **Moghadam M.;** Mirkhani V.; Mohammadpoor-Baltork I.; Khosropour A. R. (2013) Magnetic nanoparticles supported manganese(III) tetrapyridylporphyrin catalyst via covalent interactions: A highly efficient and reusable catalyst for the oxidation of hydrocarbons. *Polyhedron*, **49**, 158–166.
http://dx.doi.org/10.1016/j.poly.2012.09.026

194. Barati B.; **Moghadam M.**; Rahmati A.; Mirkhani V.; Tangestaninejad M.; Mohammadpoor-Baltork I. (2013) Ruthenium hydride complex supported on multi-wall carbon nanotubes for catalytic C-C bond formation via transfer hydrogenation. *Journal of Organometallic Chemistry*, **724**, 32-39.
http://dx.doi.org/10.1016/j.jorganchem.2012.10.028

2012

193. Safaei, S.;Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2012) Diastereoselective Synthesis of Pyrazolines using a Bifunctional Brønsted Acidic Ionic Liquid under Solvent-Free Conditions. *Advanced Synthesis & Catalysis*, **354**, 3095-3104.
http://dx.doi.org/10.1002/adsc.201200191

192. Shafiee M.; Khosropour A. R.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2012) A new green catalyst:1,3,5-Triazine-functionalized bisimidazolium dichloride tethered SPION catalyzed Betti synthesis, *Catalysis Science & Technology*, ***2***, 2440-2444.
http://dx.doi.org/10.1039/C2CY20187A

191. Hajian R.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I.; Khosropour A. R. (2012) $[PZnMo_2W_9O_{39}]^{5-}$ immobilized on ionic liquid-modified silica as a heterogeneous catalyst for epoxidation of olefins with hydrogen peroxide *Comptes Rendus Chimie*, **15**, 975-979.
http://dx.doi.org/10.1016/j.crci.2012.06.002

190. Esnaashari F.; **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I.; Khosropour A. R.; Zakeri M. (2012) Multi-wall carbon nanotubes supported molybdenyl acetylacetonate: Efficient and highly reusable catalysts for epoxidation of alkenes with tert-butyl hydroperoxide. *Materials Chemistry and Physics*, **137**, 69-75.
http://dx.doi.org/10.1016/j.matchemphys.2012.08.027

189. Barati B.; **Moghadam M**.; Rahmati A.; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I. (2012) Ruthenium salophen triflate: A reusable catalyst for alkylation of 1,3-dicarbonyl compounds. *Catalysis Communications*, **29**, 122–126.
http://dx.doi.org/10.1016/j.catcom.2012.09.033

188. Esnaashari F.; **Moghadam M**.; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I.; Khosropour A. R.; Zakeri M.; Hushmandrad S. (2012) $MoO_2(acac)_2$ supported on multi-wall carbon nanotubes: highly efficient and reusable catalysts for alkene epoxidation with *tert*-BuOOH. *Polyhedron*, **48**, 212-220.
http://dx.doi.org/10.1016/j.poly.2012.08.084

187. Safaei S.; Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M**.; Tangestaninejad S.; Mirkhani V. (2012) Regioselective multi-component synthesis of 1*H*-pyrazolo[3,4-d]pyrimidine-6(7*H*)-thiones. *Molecular Diversity*, 16, 591-600.
http://dx.doi.org/10.1007/s11030-012-9391-0

186. Ghanbaripour R.; Mohammadpoor-Baltork I.; **Moghadam M.**; Khosropour A. R.; Tangestaninejad S.; Mirkhani V. (2012) Nano-silica sulfuric acid catalyzed the efficient synthesisof 1,3,5-triarylbenzenes under microwave irradiation. *Journal of the Iranian Chemical Society*, **9**, 791-798.
http://dx.doi.org/10.1007/s13738-012-0089-0

185. Safaei, S.; Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Kia R. (2012) Application of a multi-SO_3H BrØnsted acidic ionic liquid in water: A highly efficient and reusable catalyst for regioselective and scale-up synthesis of pyrazoles under mild conditions. *RSC Advances*, **2**, 5610–5616.
http://dx.doi.org/10.1039/C2RA20624B

184. Anvar S.; Mohammadpoor-Baltork I.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Khosropour A. R.; Kia R. (2012) Efficient and environmentally-benign three-component synthesis of quinolines and bis-quinolines catalyzed by recyclable potassium dodecatungstocobaltate trihydrate under microwave irradiation. *RSC Advances*, **2**, 8713-8720. http://dx.doi.org/10.1039/C2RA20639K

183. Gharaati S.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I. (2012) Efficient and selective olefination of aldehydes with ethyl diazoacetate catalyzedby high-valent tin(IV) porphyrins. *Journal of Organometallic Chemistry*, **720**, 26-29. http://dx.doi.org/10.1016/j.jorganchem.2012.08.023

182. Araghi M.; Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammdpoor-Baltork I. (2012) New porphyrin–polyoxometalate hybrid materials: synthesis, characterizationand investigation of catalytic activity in acetylation reactions. *Dalton Transactions*, **41**, 11745–11752. http://dx.doi.org/10.1039/C2DT31553J

181. Dianat S.; Tangestaninejad S.; Yadollahi B.; Bordbar A. K.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I. (2012) Stability investigation of some heteropolyoxotungstate and heteropolyoxomolybdate salts in buffer solutions. *Journal of Molecular Liquids*, **174**, 76-79. http://dx.doi.org/10.1016/j.molliq.2012.07.006

180. Meghdadi S.; Mirkhani V.; Kia R.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I. (2012) Electrochemical synthesis and crystal structure of zinc(II) complexes with N2N'2S2 amide–thioether hexadentate ligands. *Polyhedron*, **41**, 115–119. http://dx.doi.org/10.1016/j.poly.2012.04.032

179. Shafiee M.; Khosropour A. R.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V. (2012) An efficient, expeditious, and diastereoselective one-pot pseudo-five-component reaction for the synthesis of new bis-Betti bases under catalyst-free conditions. *Tetrahedron Letters*, **53**, 3086-3090. http://dx.doi.org/10.1016/j.tetlet.2012.04.037

178. Nadealian Z.; Mirkhani V.; Yadollahi B.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I. (2012) Selective oxidation of alcohols to aldehydes using inorganic–

organic hybrid catalyst based on zinc substituted polyoxometalate and ionic liquid. *Journal of Coordination Chemistry*, **65**, 1071–1081.
http://dx.doi.org/10.1080/00958972.2011.653965

177. Zakeri M.; **Moghadam M**.; Mohammadpoor-Baltork I.; Tangestaninejad S.; Mirkhani V.; Khosropour A. R. (2012) Multi-wall carbon nanotube supported manganese(III) tetraphenylporphyrin: efficient catalysts for epoxidation of alkenes with $NaIO_4$ under various reaction conditions. *Journal of Coordination Chemistry*, **65**, 1144–1157.
http://dx.doi.org/10.1080/00958972.2012.666349

176. Yadegari M.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I. (2012)High-valent titanium(IV)salophen: An efficient catalyst for rapid conversion of aldehydes to 1,1-diacetates with acetic anhydride. *Inorganica Chimica Acta*, **388**, 102–105.
http://dx.doi.org/10.1016/j.ica.2012.02.008

175. Araghi M.; Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammdpoor-Baltork I. (2012) Synthesis and characterization of a new porphyrin–polyoxometalate hybrid material and investigation of its catalytic activity. *Dalton Transactions*, **41**, 3087–3094.
http://dx.doi.org/10.1039/C2DT11865C

174. Gharaati S.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I. (2012) Highly efficient and selective trimethylsilylation of alcohols and phenols with hexamethyldisilazane catalyzed by polystyrene-bound tin(IV) porphyrin. *Polyhedron*, **35**, 87-95.
http://dx.doi.org/10.1016/j.poly.2012.01.011

173. Tangestaninejad S.; Mohammadpoor-Baltork I.; **Moghadam M**.; Mirkhani V.; Iravani M. R.; Ahmadi V. (2012) Readily prepared resin-bound 2-pyridinethiol and its application for removal of mercury ions. *Journal of the Iranian Chemical Society*, **9**, 61-65.
http://dx.doi.org/10.1007/s13738-011-0006-y

172. Zakeri M.; **Moghadam M**.; Mohammadpoor-Baltork I.; Tangestaninejad S.; Mirkhani V.; Khosropour A. R.; Alizadeh M. (2012) Biomimetic epoxidation of alkenes with sodium periodate catalyzed by tetraphenylporphyrinatomanganese(III) chloride supported on multiwall carbon nanotubes. *Transition Metal Chemistry*, **37**, 45–53.

http://dx.doi.org/10.1007/s11243-011-9555-2

171. SAEDI Z.; TANGESTANINEJAD S.; **MOGHADAM M.**; MIRKHANI V.; MOHAMMADPOOR-BALTORK I. (2012) The effect of encapsulated Zn-POM on the catalytic activity of MIL-101 in the oxidation of alkenes with hydrogen peroxide. *Journal of Coordination Chemistry*, **65**, 463–473.
http://dx.doi.org/10.1080/00958972.2011.648929

170. Rafiemanzelat F.; Abdollahi E.; **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I. (2012) Application of Tin(IV) Porphyrin Complexes as Novel Catalysts for the Synthesis of New Copolyurethanes with Cyclopeptide Moiety. *Journal of Applied Polymer Science*, **124**, 638–646.
http://dx.doi.org/10.1002/app.35022

169. NOORAEIPOUR M.; **MOGHADAM M.**; TANGESTANINEJAD S.; MIRKHANI V.; MOHAMMADPOOR-BALTORK I.; IRAVANI N. (2012) Multi-wall carbon nanotube supported tungsten hexacarbonyl: an efficient and reusable catalyst for epoxidation of alkenes with hydrogen peroxide. *Journal of Coordination Chemistry*, **65**, 226–238.
http://dx.doi.org/10.1080/00958972.2011.643788

168. Ahmadi F.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I.; Khosropour A. R. (2012) Electron-deficient tin(IV)tetraphenylporphyrin perchlorate: A highly efficient catalyst for chemical fixation of carbon dioxide. *Polyhedron*, **32**, 68-72.
http://dx.doi.org/10.1016/j.poly.2011.03.029

167. Ghanbaripour R.; Mohammadpoor-Baltork I.; **Moghadam M.**; Khosropour A. R.; Tangestaninejad S.; Mirkhani V. (2012) Microwave-promoted efficient conversion of acetophenones to 1,3,5-triarylbenzenes catalyzed by $H_3PW_{12}O_{40}$ and nano-silica supported $H_3PW_{12}O_{40}$ as reusable catalysts. *Polyhedron*, **31**, 721–728.
http://dx.doi.org/10.1016/j.poly.2011.10.027

166. Yadegari M.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I. (2012) Highly efficient and chemoselective trimethylsilylation of alcohols and phenols with hexamethyldisilazane (HMDS) catalyzed by reusable electron-deficient $[Ti^{IV}(salophen)(OTf)_2]$. *Polyhedron*, **31**, 332–338.

http://dx.doi.org/10.1016/j.poly.2011.09.023

165. Saedi Z.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I. (2012) MIL-101 metal–organic framework: A highly efficient heterogeneous catalyst for oxidative cleavage of alkenes with H_2O_2. *Catalysis Communications*,**17**, 18–22.
http://dx.doi.org/10.1016/j.catcom.2011.10.005

2011

164. Rostami M.; Khosropour A. R.; Mirkhani V.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S. (2011) An Efficient, Simple and Recycleable Domino Reaction to Diverse *N*-(1-Oxo-1*H*-inden-2-yl)benzamides catalyzed by HPW@nano-SiO_2 under Microwave Irradiation. *Synlett*, 1677-1682.
http://dx.doi.org/10.1055/s-0030-1260938

163. Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Soltani M.; Mirjafari A. (2011) One-pot synthesis of 2,3-disubstituted-2,3-dihydroquinazolin-4(*1H*)-ones using [Hmim][NO_3]: An eco-friendly protocol. *Journal of Heterocyclic Chemistry*, **48**, 1419–1427.
http://dx.doi.org/10.1002/jhet.721

162. Taghavi S. A.; **Moghadam M.**; Mohammadpoor-Baltork I.; Tangestaninejad S.; Mirkhani V.; Khosropour A. R. (2011) Highly efficient tetrahydropyranylation of alcohols and phenols catalyzed by a new and reusable high-valent vanadium(IV) porphyrin. *Comptes Rendus Chimie*, **14**, 1095–1102.
http://dx.doi.org/10.1016/j.crci.2011.09.009

161. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Gharaati S. (2011) Polystyrene-bound electron-deficient tin(IV) porphyrin: A new, highly efficient, robust and reusable catalyst for acetylation of alcohols and phenols with acetic anhydride. *Comptes Rendus Chimie*, **14**, 1080–1087.
http://dx.doi.org/10.1016/j.crci.2011.06.001

160. Rostami M.; Khosropour A. R.; Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I. (2011) A simple conversion of azlactones into indenones via

$H_3PW_{12}O_{40}/Al_2O_3$catalyzed intramolecular Friedel–Crafts reaction. *Tetrahedron Letters*, **52**, 7149–7152.
http://dx.doi.org/10.1016/j.tetlet.2011.10.120

159. **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I.; Kargar H.; Sheikhshoaei I.; Hatefi M. (2011) Highly Efficient Epoxidation of Alkenes with Sodium Periodate Catalyzed by Reusable Polystyrene-Bound Ruthenium(III) Salophen. *Journal of the Iranian Chemical Society*, **8**, 1019-1029.

158. Nooraeipour M.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Nabavizadeh S. M. (2011) Highly efficient epoxidation of alkenes with hydrogen peroxidecatalyzed by tungsten hexacarbonyl supported on multi-wall carbon nanotubes. *Transition Metal Chemistry*, **36**, 861–866.
http://dx.doi.org/10.1007/s11243-011-9541-8

157. Rostami M.; Khosropour A. R.; Mirkhani V.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S. (2011) Novel and chemoselective one-pot synthesis of 4-arylidene-2-phenyl-5(4H)-oxazolones starting from benzyl alcohols promoted by $[(C_{14}H_{24}N_4)_2W_{10}O_{32}]$-[bmim]$NO_3$. *Monatshefte für Chemie*, **142**, 1175–1180.
http://dx.doi.org/10.1007/s00706-011-0533-3

156. HAJIAN R.; TANGESTANINEJAD S.; **MOGHADAM M.**; MIRKHANI V.; MOHAMMADPOOR-BALTORK I.; KHOSROPOUR A. R. (2011) Olefin epoxidation with *tert*-BuOOH catalyzed by vanadium polyoxometalate immobilized on ionic liquid-modified MCM-41. *Journal of Coordination Chemistry*, **64**, 4134–4144.
http://dx.doi.org/10.1080/00958972.2011.636038

155. Safaei, S.; Mohammadpoor-Baltork, I.; Khosropour, A. R.; **Moghadam, M.**; Tangestaninejad, S.; Mirkhani V. (2011) Regioselective Multicomponent Synthesis of Fully Substituted Pyrazoles and Bispyrazoles Catalyzed by Zinc Triflate. *SYNLETT*, 2214–2222.
http://dx.doi.org/10.1055/s-0030-1261202

154. Taghavi S. A.; **Moghadam M.**; Mohammadpoor-Baltork I.; Tangestaninejad S.; Mirkhani V.; Khosropour A. R. (2011) Investigation of catalytic activity of high-valent vanadium(IV)

tetraphenylporphyrin: A new, highly efficient and reusable catalyst for acetylation of alcohols and phenols with acetic anhydride. *Inorganica Chimica Acta*, **377**, 159–164.
http://dx.doi.org/10.1016/j.ica.2011.07.036

153. Moosavifar M.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I. (2011) Host (nanocavity of zeolite-Y)–guest (molybdophosphoric acid) nanocomposite materials: An efficient catalyst for solvent-free synthesis and deprotection of 1,l-diacetates. *Comptes Rendus Chimie*, **14**, 953–956.
http://dx.doi.org/10.1016/j.crci.2011.03.004

152. Mohammadpoor-Baltork I.; Khosropour A. R.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Baghersad S.; Mirjafari A. (2011) Efficient one-pot synthesis of 2,3-dihydroquinazolin-4(1H)-ones from aromatic aldehydes and their one-pot oxidation to quinazolin-4(3H)-ones catalyzed by $Bi(NO_3)_3.5H_2O$: Investigating the role of thecatalyst. *Comptes Rendus Chimie*, **14**, 944–952.
http://dx.doi.org/10.1016/j.crci.2011.05.003

151. Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadiannejad-Abbasabadi K.; Zolfigol M. A. (2011) Facile and green synthesis of triarylmethanes using silica sulfuric acid as a reusable catalyst under solvent-free conditions. *Comptes Rendus Chimie*, **14**, 934–943.
http://dx.doi.org/10.1016/j.crci.2011.02.009

150. Rostami M.; Khosropour A. R.; Mirkhani V.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S. (2011) $[C_6(MIm)_2]_2W_{10}O_{32}. 2H_2O$: A novel and powerful catalyst for the synthesis of 4-arylidene-2-phenyl-5(4)-oxazolones under ultrasonic condition. *Comptes Rendus Chimie*, **14**, 869–877.
http://dx.doi.org/10.1016/j.crci.2011.02.003

149. Kargar H.; Kia R.; **Moghadam M.**; Tahir M. N. (2011) (Furan-2-yl)(5-hydroxy-3-methyl-5-phenyl-4,5-dihydro-1H-pyrazol-1-yl)-methanone. *Acta Crystallographica*, **E67**, o367.
http://dx.doi.org/10.1107/S1600536811000948

148. Kargar H.; Kia R.; **Moghadam M.**; Froozandeh F.; Tahir M. N. (2011) {2,20-[(2,2-Dimethylpropane-1,3-diyldinitrilo)bis(phenylmethylidyne)]-diphenolato}nickel(II). *Acta Crystallographica*, **E67**, m1173.
http://dx.doi.org/10.1107/S1600536811029813

147. Kargar H.; Kia R.; **Moghadam M.**; Froozandeh F.; Tahir M. N. (2011) {2,20-[(2,2-Dimethylpropane-1,3-diyldinitrilo)bis(phenylmethylidyne)]-diphenolato}copper(II). *Acta Crystallographica*, **E67**, m1145.
http://dx.doi.org/10.1107/S1600536811028844

146. **Moghadam M.**; Mohammadpoor-Baltork I.; Tangestaninejad S.; Mirkhani V.; Khosropour A. R.; Taghavi S. A. (2011) Electron-deficient vanadium(IV) tetraphenylporphyrin: A new, highly efficient and reusable catalyst for chemoselective trimethylsilylation of alcohols and phenols with hexamethyldisilazane. *Applied Organometallic Chemistry*, **25**, 687–694.
http://dx.doi.org/10.1002/aoc.1828

145. Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadiannejad-Abbasabadi K.; Zolfigol M.A. (2011) Ultrasound-Assisted Eco-Friendly Synthesis of Triarylmethanes Catalyzed by Silica Sulfuric Acid. *Journal of the Iranian Chemical Society*, **8**, 840-850.

144. Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I.; Mahdavi M. (2011) Synthesis, Characterization and Investigation of Catalytic Activity of a Highly Sulfonated Carbon Solid Acid in the Synthesis of Dihydropyrimidinones under Solvent-Free Conditions. *Journal of the Iranian Chemical Society*, **8**, 608-615.

143. Ahmadi F.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I.; Khosropour A. R. (2011) Highly efficient chemical fixation of carbon dioxide catalyzed by high-valenttetraphenylporphyrinatotin(IV) triflate. *Inorganic Chemistry Communications*, **14**, 1489–1493.
http://dx.doi.org/10.1016/j.inoche.2011.05.053

142. Taghavi S. A.; **Moghadam M.**; Mohammadpoor-Baltork I.; Tangestaninejad S.; Mirkhani V.; Khosropour A. R.; Ahmadi V. (2011) Investigation of the catalytic activity of an electron-deficient

vanadium(IV)tetraphenylporphyrin: A new, highly efficient and reusable catalystfor ring-opening of epoxides. *Polyhedron*, **30**, 2244–2255.
http://dx.doi.org/10.1016/j.poly.2011.06.008

141. Yadegari M.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I. (2011) Electron-deficient [Ti^{IV}(salophen)$(OTf)_2$]: A new and highly efficient catalyst for the acetylation of alcohols and phenols with acetic anhydride. *Polyhedron*, **30**, 2237–2243.
http://dx.doi.org/10.1016/j.poly.2011.06.012

140. Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I.; Torki M. (2011) Preparation and characterization of molybdenum hexacarbonyl encapsulated in polystyrene and its application as an efficient and reusable catalyst for epoxidation of alkenes with *tert*-BuOOH. *Comptes Rendus Chimie*, **14**, 604–610.
http://dx.doi.org/10.1016/j.crci.2010.12.003

139. Salavati H.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I. (2011) Zirconia-supported Keggin phosphomolybdovanadate nanocomposite: A heterogeneous and reusable catalyst for alkene epoxidation under thermal and ultrasonic irradiation conditions. *Comptes Rendus Chimie*, **14**, 588–596.
http://dx.doi.org/10.1016/j.crci.2011.03.003

138. Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Khosropour A. R.; Mirjafari A. (2011) [C_4mim][$InCl_4$]: An efficient catalyst-medium for alkoxymethylation of alcohols and their interconversion to acetates and TMS-ethers. *Comptes Rendus Chimie*, **14**, 568–579.
http://dx.doi.org/10.1016/j.crci.2010.08.006

137. Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Khosropour A. R.; Mirjafari A. (2011) $H_3PW_{12}O_{40}$@[bmim][$FeCl_4$]: A Green Catalytic System for Alkoxymethylation of Alcohols and Their One-Pot Interconversion to Acetates and TMS-Ethers. *Journal of the Iranian Chemical Society*, **8**, 513-524.

136. Mohammadpoor-Baltork I.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Nasr-Esfahani M. (2011) Efficient Synthesis of Symmetrical and Unsymmetrical Acyclic Imides Catalyzed

byReusable 12-Tungstophosphoric Acid under Thermal Conditions and Microwave Irradiation. *Journal of the Iranian Chemical Society*, **8**, 401-410.

135. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Moosavifar M. (2011) Host (nanocavity of dealuminated zeolite-Y)-guest (12-molybdophosphoric acid) nanocomposite material: An efficient and reusable catalyst for synthesis of 14-substituted-14-H-dibenzo[a,j]xanthenes under thermal and microwave irradiation conditions. *Comptes Rendus Chimie*, **14**, 489–495.
http://dx.doi.org/10.1016/j.crci.2010.10.006

134. Kargar H.; **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-*Baltork* I.; Naghipour M. (2011) Oxidation of 2-imidazolines to 2-imidazoles with sodium periodate catalyzedby polystyrene-bound manganese(III) porphyrin. *Polyhedron*, **30**, 1463–1468.
http://dx.doi.org/10.1016/j.poly.2011.02.040

133. Rostami M.; Khosropour A. R.; Mirkhani V.; **Moghadam M**.; Tangestaninejad S.; Mohammadpoor-Baltork I. (2011) Organic–inorganic hybrid polyoxometalates: Efficient, heterogeneous and reusable catalysts for solvent-free synthesis of azlactones. *Applied Catalysis A: General*,**397**, 27–34.
http://dx.doi.org/10.1016/j.apcata.2011.02.004

132. Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Eskandari Z. (2011) A green and selective synthesis of 2-aryloxazines and 2-aryltetrahydropyrimidines. *Journal of Heterocyclic Chemistry*, **48**, 479–483.
http://dx.doi.org/10.1002/jhet.557

131. Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Eskandari Z.; Salavati H. (2011) Chemoselective Synthesis of 2-Aryloxazines and 2-Aryltetrahydropyrimidines Using Nano-SiO_2 as a Reusable Solid Acid Catalyst under Thermal Conditions and Microwave Irradiation. *Journal of the Iranian Chemical Society*,**8**, S17-S27.

130. Kargar H.; **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I.; Nameni I. (2011) Dehydrogenation of 2-imidazolines with sodium periodate catalyzed

bymanganese(III) tetraphenylporphyrin. *Bioorganic & Medicinal Chemistry Letters*, 21, 2146–2148.
http://dx.doi.org/10.1016/j.bmcl.2011.01.126

129. Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadiannejad-Abbasabadi K.; Khavasi H. R. (2011) $H_3PW_{12}O_{40}$-Catalysed Alkylation of Arenes and Diveratrylmethanes: Convenient Routes to Triarylmethanes and to Symmetrical and Unsymmetrical 9,10-Diaryl-2,3,6,7-tetramethoxyanthracenes. *European Journal of Organic Chemistry*, 1357–1366.
http://dx.doi.org/10.1002/ejoc.201001267

128. Keshavarzi R.; Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I.; Fallah H. R.; Vahid Dastjerdi M. J.; Modayemzadeh H. R. (2011) Preparation and characterization of indium zinc oxide thin films by electron beam evaporation technique. *Materials Research Bulletin*,**46**, 615–620.
http://dx.doi.org/10.1016/j.materresbull.2010.09.019

127. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Gharaati S. (2011) Tetrahydropyranylation of alcohols and phenols catalyzed by a new polystyrene-bound tin(IV) porphyrin. *Journal of Molecular Catalysis A: Chemical*,**337**, 95–101.
http://dx.doi.org/10.1016/j.molcata.2011.01.023

126. Khorsandi Z.; Khosropour A. R.; Mirkhani V.; Mohammadpoor-Baltork I.; **Moghadam M.**; TangestaninejadS. (2011) A simple and efficient large-scale synthesis of 3-hydroxyphthalans via oxa-Pictet–Spengler reaction catalyzed by nanosilica sulfuric acid. *Tetrahedron Letters*, **52**, 1213-1216.
http://dx.doi.org/10.1016/j.tetlet.2011.01.037

125. Mohammadpoor-Baltork I.;**Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Tavakoli H. R. (2011) Highly efficient and green synthesis of 14-aryl(alkyl)-14*H*-dibenzo[*a*,*j*]xanthene and 1,8 dioxooctahydroxanthene derivatives catalyzed by reusable zirconyl triflate [$ZrO(OTf)_2$] under solvent-free conditions. *Chinese Chemical Letters*, **22**, 9–12.
http://dx.doi.org/10.1016/j.cclet.2010.09.003

124. Mohammadpoor-Baltork I.; Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Anvar S.; Mirjafari A. (2010) Microwave-Promoted Alkynylation–Cyclization of 2-Aminoaryl Ketones: A Green Strategy for the Synthesis of 2,4-Disubstituted Quinolines. *SYNLETT*, 3104–3112.
http://dx.doi.org/10.1055/s-0030-1259065

123. Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I.; Hajian R. (2010) Efficient epoxidation of alkenes with sodium periodate catalyzed by manganese porphyrins in ionic liquid: Investigation of catalyst reusability. *Inorganic Chemistry Communications*, **13**, 1501–1503.
http://dx.doi.org/10.1016/j.inoche.2010.08.027

122. Hatefi M.; **Moghadam M.**; Mirkhani V.; Sheikhshoaei I. (2010) Silica supported Ru(salophen)Cl: An efficient and robust heterogeneous catalyst for epoxidation of alkenes with sodium periodate. *Polyhedron*, **29**, 2953–2958.
http://dx.doi.org/10.1016/j.poly.2010.07.019

121. Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Khosropour A. R.; Mirjafari A. (2010) Microwave-assisted rapid and efficient deprotection and direct esterification and silylation of MOM and EOM ethers catalyzed by [Hmim][HSO_4] as a Brønsted acidic ionic liquid. *Monatshefte fur Chemie*, **141**, 1083-1088.
http://dx.doi.org/10.1007/s00706-010-0373-6

120. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Mirbagheri N. S. (2010)Molybdenum hexacarbonyl supported on aminemodified multi-wall carbon nanotubes: an efficient and highly reusable catalyst for epoxidation of alkenes with *tert*-butylhydroperoxide. *Applied Organometallic Chemistry*, **24**, 708-713.
http://dx.doi.org/10.1002/aoc.1671

119. Nasr-Esfahani M.; Montazerozohori M.; **Moghadam M.**; Mohammadpoor-Baltork I.;Moradi S. (2010) TRANSFORMATION OF THIOAMIDE COMPOUNDS TO CORRESPONDING AMIDES USING 12-TUNGSTOSILICIC ACID. *Phosphorus, Sulfur and Silicon*, **185**, 261–265.
http://dx.doi.org/10.1080/10426500902758964

118. Hatefi M.; Sheikhshoaie I.; Mirkhani V.; **Moghadam M.**; Kia R. (2010) Dioxidobis{2-[(E)-*p*-tolyliminomethyl]phenolato}molybdenum(VI). *Acta Crystallographica*, **E66**, m1137.

http://dx.doi.org/10.1107/S1600536810032836

117. Mirkhani V.; Tangestaninejad S.; **Moghadam M**.; Mohammadpoor-Baltork I.; Saedi Z. (2010) [Mn(salophen)Cl] Supported on Modified Polystyrene as a Selective Heterogeneous Catalyst for Oxidation of Sulfides under Ultrasonic Irradiation. *Journal of Iranian Chemical Society*, **7**, 673-677.

116. Tangestaninejad S.; **Moghadam M**.; Mirkhani V.; Mohammadpoor-Baltork I.; Hoseini N. (2010) Efficient and Selective Hydrocarbon Oxidation with Sodium Periodate Catalyzed by Supported Manganese(III) Porphyrin. *Journal of Iranian Chemical Society*, **7**, 663-672.

115. Mirkhani V.; **Moghadam M**.; Tangestaninejad S.; Hajibagheri S. (2010) Catalytic Oxidation of Primary Aromatic Amines with Sodium Periodate Catalyzed by Mn(III)salophen Complex Supported on Polystyrene-Bound Imidazole. *Journal of Iranian Chemical Society*, **7**, 641-645.

114. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Mirbagheri N. S. (2010) Molybdenum hexacarbonyl supported on functionalized multi-wall carbon nanotubes: Efficient and highly reusable catalysts for epoxidation of alkenes with t*ert*-butyl hydroperoxide. *Journal of Organometallic Chemistry*, **695**, 2014-2021.
http://dx.doi.org/10.1016/j.jorganchem.2010.05.008

113. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Mirjafari A.; Mirbagheri N. S. (2010) Multi-wall carbon nanotubes supported molybdenum hexacarbonyl: An efficient and highly reusable catalyst for epoxidation of alkenes with *tert*-butyl hydroperoxide. *Journal of Molecular Catalysis A: Chemical*, **329**, 44–49.
http://dx.doi.org/10.1016/j.molcata.2010.06.016

112. Hatefi M.; Sheikhshoaie I.; **Moghadam M.**; Mirkhani V.; Kia R. (2010) Bis[μ-(E)-N′-(4-oxido-4-phenylbut-3-en-2-ylidene)benzohydrazidato]bis[pyridinecopper(II)]. *Acta Crystallographica*,**E66**, m726–m727.
http://dx.doi.org/10.1107/S1600536810019902

111. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.;Khajehzadeh M. (2010) Highly efficient and selective methoxymethylation of alcohols and phenols catalyzed by reusable $ZrO(OTf)_2$ under solvent-free conditions. *Monatshefte fur Chemie*, **141**, 641–647.

http://dx.doi.org/10.1007/s00706-010-0310-8

110. Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I.; Salavati H. (2010) Vanadium-Containing Polyphosphomolybdate Immobilized on TiO_2 Nanoparticles:A Recoverable and Efficient Catalyst for Photochemical, Sonochemical andPhotosonochemical Degradation of Dyes under Irradiation of UV Light. *Journal of Iranian Chemical Society*, **7**, Suppl., S161-S174.

109. Nasr-Esfahani M.; Montazerozohori M.; **Moghadam M.**; Akhlaghi P. (2010) Efficient catalytic synthesis of 2-imidazolines and bis-imidazolines with silica supported tungstosilicic acid. *Arkivoc*, (ii) 97-109.

108. Mirjafari A.; Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Khosropour A. R. (2010) Microwave-promoted, one-pot conversion of alkoxymethylated protected alcohols into their corresponding nitriles, bromides, and iodides using [bmim][$InCl_4$] as a green catalyst. *Tetrahedron Letters*, **51,**3274-3276.
http://dx.doi.org/10.1016/j.tetlet.2010.04.056

107. Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mirjafari A. (2010) $H_3PW_{12}O_{40}$–[bmim][$FeCl_4$]: A novel and green catalyst-medium system for microwave-promoted selective interconversion of alkoxymethyl ethers into their corresponding nitriles, bromides and iodides. *Comptes Rendus Chimie*, **13**, 1468–1473.
http://dx.doi.org/10.1016/j.crci.2010.03.015

106. Tangestaninejad S.; **Moghadam M.**; Mirkhani V.; Mohammadpoor-Baltork I.; Saeedi M. S. (2010) Efficient epoxidation of alkenes with sodium periodate catalyzed by reusable manganese(III) salophen supported on multi-wall carbon nanotubes. *Applied Catalysis A: General*, **381**,233–241.
http://dx.doi.org/10.1016/j.apcata.2010.04.013

105. Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Eskandari Z. (2010) $H_3PW_{12}O_{40}$: An Efficient and Recyclable Heterogeneous Catalyst for the Selective Synthesis of 2-Aryl-5,6-dihydro-4*H*-1,3-oxazines and 2-Aryl-1,4,5,6-tetrahydropyrimidines. *Zeitschrift für Naturforschung B*, **65b**, 461-469.

104. Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.;Eskandari Z. (2010) Ultrasound promoted selective synthesis of 2-aryl-5,6-dihydro-4*H*-1,3-oxazines catalyzed by K-10 and KSF montmorillonite clays: A practical procedure under mild and solvent-free conditions. *Ultrasonics Sonochemistry*, **17**, 857-862.
http://dx.doi.org/10.1016/j.ultsonch.2010.02.005

103. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Gharaati S. (2010) High-valent tin(IV) porphyrin: An efficient and reusable catalyst for tetrahydropyranylation of alcohols and phenols under mild conditions. *Inorganica Chimica Acta*, **363**, 1523-1528.
http://dx.doi.org/10.1016/j.ica.2010.01.017

102. **Moghadam M.**; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I.; Moshref Javadi M. (2010) Polyoxometalate–molybdenylacetylacetonate hybrid complex: A reusable and efficient catalyst for oxidation of alkenes with tert-butylhydroperoxide. *Inorganic Chemistry Communications*, **13**, 244–249.
http://dx.doi.org/10.1016/j.inoche.2009.11.022

101. Gharaati S.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Kosari F. (2010) Highly efficient and selective methoxymethylation of alcohols and phenols catalyzed by high-valent tin(IV) porphyrin. *Inorganica Chimica Acta*, **363**, 1995–2000.
http://dx.doi.org/10.1016/j.ica.2009.03.005

100. **Moghadam M.;** Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I.; Moshref Javadi M. (2010) Molybdenum Schiff base-polyoxometalate hybrid compound: a heterogeneous catalyst for alkene epoxidation with *tert*-BuOOH. *Polyhedron*, **29**, 648–654.
http://dx.doi.org/10.1016/j.poly.2009.09.016

99. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.;Gharaati S. (2010) [$Sn^{IV}(TPP)(BF_4)_2$]: An efficient and reusable catalyst for chemoselective trimethylsilylation of alcohols and phenols with hexamethyldisilazane. *Polyhedron*, **29**, 212–219.
http://dx.doi.org/10.1016/j.poly.2009.07.008

98. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.;Khajehzadeh M.; Kosari F.; Araghi M. (2010) High-valent [$Sn^{IV}(Br_8TPP)(OTf)_2$] as a highly efficient and reusable

catalyst for selective methoxymethylation of alcohols and phenols: The effect of substituted bromines on the catalytic activity. *Polyhedron*, **29**, 238–243.
http://dx.doi.org/10.1016/j.poly.2009.07.041

97. Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammdpoor-Baltork I.; Mahdavi M. (2010) Preparation of an improved sulfonated carbon-based solid acid as a novel, efficient, and reusable catalyst for chemoselective synthesis of 2-oxazolines and bis-oxazolines. *Monatshefte fur Chemie*, **140**, 1489–1494.
http://dx.doi.org/10.1007/s00706-009-0213-8

96. Salavati H.; Tangestaninejad S.; **Moghadam M.;** Mirkhani V.; Mohammadpoor-Baltork I.; (2010) Sonocatalytic epoxidation of alkenes by vanadium-containing polyphosphomolybdate immobilized on multi-wall carbon nanotubes. *Ultrasonics Sonochemistry*, **17**, 453–459.
http://dx.doi.org/10.1016/j.ultsonch.2009.09.011

95. Salavati H.; Tangestaninejad S.; **Moghadam M.;** Mirkhani V.; Mohammadpoor-Baltork I.; (2010) Sonocatalytic oxidation of olefins catalyzed by heteropolyanion–montmorillonite nanocomposite. *Ultrasonics Sonochemistry*, **17**,145-152.
http://dx.doi.org/10.1016/j.ultsonch.2009.05.009

2009

---

94. Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammdpoor-Baltork I.; Mahdavi M. (2009) Highly Efficient Synthesis of 14-Aryl-14Hdibenzo[a,j]xanthenes Catalyzed by Carbon-Based Solid Acid Under Solvent-Free Conditions. *Synthetic Communications*, **39**, 4328-4340.
http://dx.doi.org/10.1080/00397910902792630

93. Nasr-Esfahani M.; **Moghadam M.**; Mohammadpoor-Baltork I.; Boostanifar M. H. (2009) Acidified, Wet, Silica-Supported TetrabutylammoniumPeriodate: A Convenient and Mild Reagent for Conversionof Thioamides to Their Corresponding Amides UnderSolvent-Free Conditions. *Phosphorus, Sulfur and Silicon*, **184**, 2004–2009.
http://dx.doi.org/10.1080/10426500802417745

92. Nasr-Esfahani M.; **Moghadam M.;** Valipour G. (2009) Efficient Oxidation of Hantzsch 1,4-Dihydropyridines with Tetrabutylammonium Peroxomonosulfate Catalyzed by Manganese(III)

Schiff Base Complexes: The Effect of Schiff Base Complex on the Product Selectivity. *Synthetic Communications*, **39**, 3867–3879.
http://dx.doi.org/10.1080/00397910902838995

91. Akbarzadeh A.; Zare D.; Farhangi A.; Mehrabi M. R.; Norouzian D.; Tangestaninejad S.; **Moghadam M.;** Bararpour N. (2009) Synthesis and Characterization of Gold Nanoparticles by Tryptophane. *American Journal of Applied Sciences*, **6**, 691-695.
http://dx.doi.org/10.3844/ajassp.2009.691.695

90. Nasr-Esfahani M.; **Moghadam M.;** Mohammadpoor-BaltorkI.; Boostanifar M. H. (2009) A Mild and Convenient Method for Conversion of Thioamides to Their Corresponding Amides UsingAcidified Wet Silica-Supported Permanganate Under Solvent-Free Conditions. *Phosphorus, Sulfur and Silicon*, **184**, 141–146.
http://dx.doi.org/10.1080/10426500802080865

89. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Gharaati S. (2009) Rapid, highly efficient and chemoselective trimethylsilylation of alcohols and phenols with hexamethyldisilazane (HMDS) catalyzed by reusable electron-deficient tin(IV)porphyrin. *Applied Organometallic Chemistry*, **23,** 446–454.
http://dx.doi.org/10.1002/aoc.1540

88. **Moghadam M**.; Mohammadpoor-Baltork I.; Tangestaninejad S.; Mirkhani S.; Kargar H.; Zeini-Isfahani N. (2009) Manganese(III) porphyrin supported on multi-wall carbon nanotubes: A highly efficient and reusable biomimetic catalyst for epoxidation of alkenes with sodium periodate. *Polyhedron*, **28**, 3816–3822.
http://dx.doi.org/10.1016/j.poly.2009.08.016

87. Hatefi M.; **Moghadam M**.; Sheikhshoaei I.; Mirkhani V.; Tangestaninejad S.; Mohammadpoor-Baltork I. Kargar H. (2009) Ru(salophen)Cl supported on polystyrene-bound imidazole: an efficient and robust heterogeneous catalyst for epoxidation of alkenes with sodium periodate. *Applied Catalysis A: General*, **370**, 66–71.
http://dx.doi.org/10.1016/j.apcata.2009.09.019

86. Nasr-Esfahani M.; Montazerozohori M.; **Moghadam M.**; Mohammadpoor-Baltork I.; Moradi S. (2009) A convenient and inexpensive method for conversion of thioamide compounds to their oxo derivatives using acidified iodine monochloride. *Journal of Sulfur Chemistry*, **30**, 17–21. http://dx.doi.org/10.1080/17415990802609847

85. **Moghadam M.**; Mohammadpoor-Baltork I.; Tangestaninejad S.; Mirkhani V.; Yazdani P.; Ghorjipoor S. (2009) Highly Efficient and Chemoselective Acetalization of Carbonyl Compounds Catalyzed by New and Reusable Zirconyl Triflate, $Zr(OTf)_2$. *Heteroatom Chemistry*, **20**, 131-135. http://dx.doi.org/10.1002/hc.20523

84. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Sirjanian N.; Parand S. (2009) Polystyrene-bound Mn(T4PyP): A highly efficient and reusable catalyst for biomimetic oxidative decarboxylation of carboxylic acids with sodium periodate. *Bioorganic & Medicinal Chemistry*, **17**, 3394-3398. http://dx.doi.org/10.1016/j.bmc.2009.03.038

83. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Moosavifar M. (2009) Host (nanocavity of dealuminated zeolite Y)–guest (12-molybdophosphoric acid) nanocomposite material: An efficient and reusable catalyst for oximation of aldehydes. *Applied Catalysis A: General*, **358**, 157-163. http://dx.doi.org/10.1016/j.apcata.2009.02.008

82. Tangestaninejad S.; **Moghadam M.;** Mirkhani V.; Mohammadpoor-Baltork I.; Ghani K. (2009) Alkene epoxidation catalyzed by molybdenum supported on functionalized MCM-41 containing N-S chelating Schiff base ligand. *Catalysis Communications*, **10**,853-858. http://dx.doi.org/10.1016/j.catcom.2008.12.010

81. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Moosavifar M. (2009) Host (nanocavity of zeolite-Y or X)-guest (manganese (III) *tetrakis*[4-*N*-methylpyridinum)porphyrin] nanocomposite materials as efficient catalysts for biomimetic alkene epoxidation with sodium periodate: shape-selective epoxidation of linear alkenes. *Journal of Molecular Catalysis A: Chemical*, **302**, 68-75. http://dx.doi.org/10.1016/j.molcata.2008.11.036

80. Mirkhani V.; Habibi M. H.; Tangestaninejad S.; **Moghadam M.**; Rostami Vartooni A. (2009) Photodegradation of aromatic amines by Ag-TiO_2 photocatalyst. *Journal of the Iranian Chemical Society*. **6**, 800-807.

79. **Moghadam M.;** Mohammadpoor-Baltork I.; Tangestaninejad S.; Mirkhani V.; Shariati L.; Babaghanbari M.; Zarea M. (2009) Zirconyl triflate, [$ZrO(OTf)_2$], as a new and highly efficient catalyst for ring-opening of epoxides. *Journal of the Iranian Chemical Society*, **6**, 789-799.

78. Mirkhani V.; Tangestaninejad S.; **Moghadam M.**; Habibi M. H.; Rostami Vartooni. A. (2009) Photocatalytic Degradation of Azo Dyes Catalyzed by Ag Doped TiO_2 Photocatalyst. *Journal of the Iranian Chemical Society*, **6**, 578-587.

77. **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Babaghanbari M.; Zarea M.; Shariati L.; Taghavi S. A. (2009) Zirconyl triflate, [$ZrO(OTf)_2$], a New, Highly Efficient and Reusable Catalyst for Acetylation and Benzoylation of Alcohols, Phenols, Amines and Thiols with Acetic and Benzoic Anhydrides. *Journal of the Iranian Chemical Society*, **6**, 523-532.

76. **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.;Kargar H. (2009) $InCl_3$ as an Efficient Catalyst for Synthesis of Oxazolines under Thermal, Ultrasonic and Microwave Irradiation. *Journal of the Iranian Chemical Society*, **6,** 251-258.

75. **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Gorjipoor S.; Yazdani P. (2009) Highly efficient aminolysis of epoxides catalyzed by reusable zirconyl triflate, $ZrO(OTf)_2$. *Synthetic Communications*, **39**, 552-561.
http://dx.doi.org/10.1080/00397910802406729

74. Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Mohammadpoor-Baltork I.; Kargar H.;Araghi M. (2009) Highly efficient oxidation of sulfides with sodium periodate catalyzed by reusable silica supported Mn(Br_8TPP)Cl and Mn(TPP)Cl catalysts under various reaction conditions. *Applied Catalysis A: General*, **353**, 61-67.
http://dx.doi.org/10.1016/j.apcata.2008.10.021

2008

73. Mohammadpoor-Baltork I.; **Moghadam M.**; Tangestaninejad S.; Mirkhani V.; Mirjafari A. (2008) $H_3PW_{12}O_{40}$: A selective, environmentally benign and reusable catalyst for preparation of

methoxymethyl and ethoxymethyl ethers and their deprotections under mild conditions. *Canadian Journal of Chemistry*, **86**, 831-840.
http://dx.doi.org/10.1016/j.apcata.2008.07.034

72. **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Abbasi-Larki A. A. (2008) Biomimetic oxidation of sulfides with sodium periodate catalyzed by polystyrene-bound manganese (III) tetrapyridylporphyrin. *Applied Catalysis A: General*, **349**, 177-181.
http://dx.doi.org/10.1016/j.apcata.2008.07.034

71. Mirkhani V.; **Moghadam M.**; Tangestaninejad S.; Bahramian B. (2008) Effect of Bulky Substitution on Catalytic Activity of a Manganese Salen Complex Used in Biomimetic Alkene Epoxidation and Alkane Hydroxylation with Sodium Periodate. *Journal of the Iranian Chemical Society*, **5**, 375-383.

70. Mohammadpoor-Baltork I.; **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Zolfigol M. A.; Hojati S. F. (2008) Silica Sulfuric Acid Catalyzed Synthesis of Benzoxazoles, Benzimidazoles and Oxazolo[4,5-*b*]pyridines Under Heterogeneous and Solvent-Free Conditions. *Journal of the Iranian Chemical Society*, **5**, Suppl.; S65-S70.

69. Tangestaninejad S.; **Moghadam M.;** Mirkhani V.; Mohammadpoor-Baltork I.; Ghani K. (2008) $MoO_2(acac)_2$ Supported on MCM-41: An Efficient and Reusable Catalyst for Alkene Epoxidation with *tert*-BuOOH. *Journal of the Iranian Chemical Society*, **5**, Suppl.; S71-S79.

68. Fun H. –K.; Kia R.; Schiffers S.; **Moghadam M**.; Raithby P. R. (2008) 2-{[4-(Phenyldiazenyl)phenyl]iminomethyl}phenol. *Acta Crystallographica Section E*, **E64**, o1856–o1857.
http://dx.doi.org/10.1107/S1600536808027244

67. Nasr-Esfahani M.; **Moghadam M**.; Valipour G. (2008) Rapid and efficient aromatization of Hantzsh 1,4-dihydropyridines with potassium peroxomonosulfate catalyzed by manganese (III) Schiff base complexes. *Journal of the Iranian Chemical Society*, **5**, 244-251.

66. Mirkhani V.; **Moghadam M.;** Tangestaninejad S.; Mohammadpoor-Baltork I.; Rasouli N. (2008) A comparative study of oxidation of alkanes and alkenes by hydrogen peroxide catalyzed by

Cu(salen) complex covalently bound to a Keggin type polyoxometalate and its neat counterpart. *Catalysis Communications*, **9**, 2411-2416.
http://dx.doi.org/10.1016/j.catcom.2008.05.040

65. Mohammadpoor-Baltork I.; **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Mirjafari A. (2008) 12-Tungstophosphoric acid supported on inorganic oxides as heterogeneous and reusable catalysts for the selective preparation of alkoxymethyl ethers and their deprotections under different reaction conditions. *Polyhedron*, **27**, 2612-2624.
http://dx.doi.org/10.1016/j.poly.2008.05.002

64. **Moghadam M.;** Mirkhani V.; Tangestaninejad S.; Mohammdpoor-Baltork I.; Kargar H. (2008) Silica supported Mn(Br_8TPP)Cl and Mn(TPP)Cl as efficient and reusable catalysts for selective hydrocarbon oxidation under various reaction conditions: The effect of substituted bromines on the catalytic activity and reusability. *Journal of Molecular Catalysis A: Chemical*, **288**, 116-124.
http://dx.doi.org/10.1016/j.molcata.2008.03.028

63. Mirkhani V.; **Moghadam M.;** Tangestaninejad S.; Mohammadpoor-Baltork I.;Rasouli N. (2008) Oxidation of alkanes with hydrogen peroxide catalyzed by Schiff base complexes covalently anchored to polyoxometalate. *Catalysis Communications*, **9**, 2171-2174.
http://dx.doi.org/10.1016/j.catcom.2008.04.014

62. **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Chahardahcheric S.; Tavakoli Z. (2008) Rapid and highly efficient trimethylsilylation of alcohols and phenols with hexamethyldisilazane (HMDS) catalyzed by reusable zirconyl triflate, [$ZrO(OTf)_2$]. *Journal of Organometallic Chemistry*, **693**, 2041-2046.
http://dx.doi.org/10.1016/j.jorganchem.2008.03.009

61. Tangestaninejad S.; Mirkhani V.; **Moghadam M.;** Mohammadpoor-Baltork I.; Shams E.; Salavati H. (2008) Hydrocarbon oxidation catalyzed by vanadium polyoxometalate supported on mesoporous MCM-41 under ultrasonic irradiation. *Ultrasonics Sonochemistry*, **15**, 438-447.
http://dx.doi.org/10.1016/j.ultsonch.2007.06.009

60. Mohammadpoor-Baltork I.; Mirkhani V.; **Moghadam M.;** Tangestaninejad S.; Zolfigol M. A.; Abdollahi-Alibeik M.; Khosropour A. R.; Kargar H.; Hojati S. F. (2008) Silica sulfuric acid: A

versatile and reusable heterogeneous catalyst for the synthesis of oxazolines and imidazolines under various reaction conditions. *Catalysis Communications*, **9**, 894-901.
http://dx.doi.org/10.1016/j.catcom.2007.09.017

59. Tangestaninejad S.; **Moghadam M.;** Mirkhani V.; Mohammadpoor-Baltork I.; Shams E.; Salavati H. (2008) Olefin epoxidation with H_2O_2 catalyzed by vanadium-containing polyphosphomolybdates immobilized on TiO_2 nanoparticles under different conditions. *Catalysis Communications*, **9**, 1001-1009.
http://dx.doi.org/10.1016/j.catcom.2007.10.018

58. Mohammadpoor-Baltork I.; **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Hojati S. F. (2008) Environmental-friendly synthesis of oxazolines, imidazolines and thiazolines catalyzed by tungstophosphoric acid. *Catalysis Communications*, **9**, 1153-1161.
http://dx.doi.org/10.1016/j.ultsonch.2007.10.008

57. Tangestaninejad S.; **Moghadam M.;** Mirkhani V.; Mohammadpoor-Baltork I.; Salavati H. (2008) Sonochemical and visible light induced photochemical and sonophotochemical degradation of dyes catalyzed by recoverable vanadium-containing polyphosphomolybdate immobilized on TiO_2 nanoparticles**.** *Ultrasonics Sonochemistry*, **15**, 815-822**.**
http://dx.doi.org/10.1016/j.ultsonch.2007.10.008

56. Mohammadpoor-Baltork I.; **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Hojati S. F. (2008) Supported 12-tungstophosphoric acid as heterogeneous and recoverable catalysts for the synthesis of oxazolines, imidazolines and thiazolines under solvent-free conditions. *Polyhedron*, **27**, 750-758**.**
http://dx.doi.org/10.1016/j.poly.2007.11.018

55. Tangestaninejad S.; **Moghadam M.;** Mirkhani V.; Mohammadpoor-Baltork I.; Ghani K. (2008) $MoO_2(acac)_2$ supported on silica functionalized imidazole as a highly efficient and reusable catalyst for alkene epoxidation with *tert*-BuOOH. *Inorganic Chemistry Communications*, **11**, 270-274.
http://dx.doi.org/10.1016/j.inoche.2007.12.012

54. Mirkhani V.; **Moghadam M.;** Tangestaninejad S.; Mohammadpoor-Baltork I.; Shams E.; Rasouli N. (2008) Catalytic epoxidation of olefins with hydrogen peroxide by hybrid complex

containing nickel(III) Schiff base complex covalently linked to polyoxometalate. *Applied Catalysis A: General*, **334**, 106-111.
http://dx.doi.org/10.1016/j.apcata.2007.09.041

53. Mirkhani V.; **Moghadam M.;** Tangestaninejad S.; Mohammadpoor-Baltork I.;Rasouli N. (2008) Investigation of catalytic activity of cobalt–Schiff base complex covalently linked to the polyoxometalate in the alkene and benzyl halide oxidation with hydrogen peroxide. *Catalysis Communications*, **9**, 219-223.
http://dx.doi.org/10.1016/j.catcom.2007.06.003

2007

52. Mirkhani V.; **MoghadamM.;** Tangestaninejad S.; Mohammadpoor-Baltork I.; Rasouli N. (2007) Catalytic oxidation of olefins with hydrogen peroxide catalyzed by [Fe(III)(salen)Cl] complex covalently linked to polyoxometalate. *Inorganic Chemistry Communications*, **10**, 1537-1540.
http://dx.doi.org/10.1016/j.inoche.2007.09.016

51. Mirkhani V.; **Moghadam M.;** Tangestaninejad S.;Bahramian B. (2007) Biomimetic Alkene Epoxidation and Alkane Hydroxylation with Sodium Periodate Catalyzed by Mn(III)-*salen* Supported on Amberlite IRA-200. *Monatshefte fur Chemie*, **138**, 1303-1308.
http://dx.doi.org/10.1007/s00706-007-0672-8

50. Karami B.; Montazerozohori M.; **Moghadam M.;** Farahi M. (2007) Iron and manganese (III)–porphyrins as new applicable catalysts for selective oxidation of imines with urea–hydrogen peroxide. *Journal of Chemical Reaearch(S)*, 275–277.
http://dx.doi.org/10.3184/030823407X215861

49. **Moghadam M.;** Mohammadpoor-Baltork I.; Mirkhani V.; Tangestaninejad S.; Abdollahi-Alibeik M.; Yousefi B. H.; Kargar H. (2007) Rapid and Efficient Synthesis of Imidazolines and Bisimidazolines under Microwave and Ultrasonic Irradiation. *Monatshefte fur Chemie*, **138**, 579-583.
http://dx.doi.org/10.1007/s00706-007-0645-y

48. **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Taghavi S. A. (2007) Highly efficient and selective acetylation of alcohols and phenols with acetic anhydride

catalyzed by a high-valent tin(IV) porphyrin, $Sn(TPP)(BF_4)_2$. *Journal of Molecular Catalysis A: Chemical*, **274**, 217-233.
http://dx.doi.org/10.1016/j.molcata.2007.05.012

47. **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Taghavi S. A. (2007) High-valent tin(IV) porphyrin, $Sn^{IV}(TPP)(BF_4)_2$, as an efficient catalyst for the ring-opening of epoxides. *Catalysis Communications*, **8**, 2087-2095.
http://dx.doi.org/10.1016/j.catcom.2007.04.013

46. Mirkhani V.; Mohammadpoor-Baltork I.; **Moghadam M.;** Tangestaninejad S.; Abdollahi-Alibeik M.; Kargar H. (2007) $ZrOCl_2 \cdot 8H_2O$: an efficient and reusable catalyst for the synthesis of imidazolines and *bis*-imidazolines under various reaction conditions. *Applied Catalysis A: General*, **325**, 99-104.
http://dx.doi.org/10.1016/j.apcata.2007.03.016

45. Tangestaninejad S.; Mirkhani V.; **Moghadam M.;** Grivani G. (2007) Readily prepared heterogeneous molybdenum-based catalysts as highly recoverable, reusable and active catalysts for alkene epoxidation. *Catalysis Communications*, **8**, 839-844.
http://dx.doi.org/10.1016/j.catcom.2006.08.037

44. Mirkhani V.; **Moghadam M.;** Tangestaninejad S.; Bahramian B.; Mallekpoor-Shalamzari A. (2007) Host (nanocavity of zeolite-Y)-guest (manganese(III) salophen complex) nanocomposite materials: An efficient catalyst for biomimetic alkene epoxidation and alkane hydroxylation with sodium periodate. *Applied Catalysis A: General*, **321**, 49-57.
http://dx.doi.org/10.1016/j.apcata.2007.01.032

2006

43. GHAEDI M.; PARHAM H.; **MOGHADAMM.;** MORTAZAVI K.; SOYLAKM. (2006) SOLID PHASE EXTRACTION AND SPECTROPHOTOMETRIC DETERMINATION OF TRACE AMOUNTS OF THIOCYANATE IN REAL SAMPLES. *Annali di Chimica*, **96**, 689-696.
http://dx.doi.org/10.1002/adic.200690071

42. **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Karami B.; Rashidi N.; Ahmadi H. (2006) Oxidation of Alcohols with Sodium Periodate Catalyzed by Supported Mn(III) Porphyrins. *Journal of Iranian Chemical Society*, **3**, 64-68.

41. Bahramian B.; Mirkhani V.; **Moghadam M.;** Amin A. H. (2006) Water-soluble manganese(III) salen complex as a mild and selective catalyst for oxidation of alcohols. *Applied Catalysis A: General*, **315**, 52-57.
http://dx.doi.org/10.1016/j.apcata.2006.08.037

40. Mirkhani V.; **MoghadamM.;** Tangestaninejad S.; Bahramian B. (2006) Polystyrene-bound 1,4-phenylenediamine as a heterogeneous axial ligand for Mn(salophen)Cl and its use as biomimetic alkene epoxidation and alkane hydroxylation catalyst with sodium periodate. *Polyhedron*, **25**, 2904-2914.
http://dx.doi.org/10.1016/j.poly.2006.04.020

39. Mirkhani V.; **MoghadamM.;** Tangestaninejad S.; Bahramian B. (2006) Silica-bound imidazole as a heterogeneous axial ligand for Mn(salophen)Cl: Efficient, recoverable and recyclable catalyst for epoxidation of alkenes and hydroxylation of alkanes with sodium periodate. *Applied Catalysis A: General*, **313**, 122-129.
http://dx.doi.org/10.1016/j.apcata.2006.06.049

38. Mirkhani V.; **MoghadamM.;** Tangestaninejad S.; Bahramian B. (2006) Polystyrene-bound imidazole as a heterogeneous axial ligand for Mn(salophen)Cl and its use as biomimetic alkene epoxidation and alkane hydroxylation catalyst with sodium periodate. *Applied Catalysis A: General*, **311**, 43-50.
http://dx.doi.org/10.1016/j.apcata.2006.05.043

37. Tangestaninejad S.; Habibi M. H.; Mirkhani V.; **MoghadamM.;** Grivani G. (2006) Simple preparation of some reusable and efficient polymer-supported tungsten carbonyl catalysts and clean epoxidation of *cis*-cyclooctene in the presence of H_2O_2. *Journal of Molecular Catalysis A: Chemical*, **255**, 249-253.
http://dx.doi.org/10.1016/j.molcata.2006.04.020

36. Fazaeli R.; Tangestaninejad S.; Aliyan H.; **Moghadam M.** (2006) One-pot synthesis of dihydropyrimidinones using facile and reusable polyoxometalate catalysts for the Biginelli reaction. *Applied Catalysis A: General*, **309**, 44-51.
http://dx.doi.org/10.1016/j.apcata.2006.04.043

35. Tangestaninejad S.; Habibi M. H.; Mirkhani V.; **Moghadam M.;** Grivani G. (2006) Readily prepared polymer-supported molybdenum carbonyls as novel reusable and highly active epoxidation catalysts. *Inorganic Chemistry Communications,* **9**, 575-578.
http://dx.doi.org/10.1016/j.inoche.2006.03.001

34. Mirkhani V.; **Moghadam M.;** Tangestaninejad S.; Kargar H. (2006) Mn(Br_8TPP)Cl supported on polystyrene-bound imidazole: An efficient and reusable catalyst for biomimetic alkene epoxidation and alkane hydroxylation with sodium periodate under various reaction conditions. *Applied Catalysis A: General,* **303**, 221-229.
http://dx.doi.org/10.1016/j.apcata.2006.02.007

33. Mirkhani V.; **Moghadam M.;** Tangestaninejad S.; Kargar H. (2006) Rapid and efficient synthesis of 2-imidazolines and *bis*-imidazolines under ultrasonic irradiation. *Tetrahedron Letters,* **47**, 2129-2132.
http://dx.doi.org/10.1016/j.tetlet.2006.01.127

32. Bahramian B.; Mirkhani V.; **Moghadam M.;** Tangestaninejad S. (2006) Manganese (III) salen immobilized on montmorillonite as biomimetic alkene epoxidation and alkane hydroxylation catalyst with sodium periodate. *Catalysis Communications,***7**, 289-296.
http://dx.doi.org/10.1016/j.catcom.2005.11.016

31. Bahramian B.; Mirkhani V.; **Moghadam M.;** Tangestaninejad S. (2006) Selective alkene epoxidation and alkane hydroxylation with sodium periodate catalyzed by cationic Mn(III)-salen supported on Dowex MSC1. *Applied Catalysis A: General,* **301**, 169-175.
http://dx.doi.org/10.1016/j.apcata.2005.11.031

30. Tangestaninejad S.; **Moghadam M.;** Mirkhani V.; Yadollahi B.; Mirmohammadi S. M. M. (2006) Mild and Efficient Ring Opening of Epoxides Catalyzed by Potassium Dodecatungstocobaltate(III). *Monatshefte fur Chemie,* **137**, 235-242.
http://dx.doi.org/10.1007/s00706-005-0415-7

29. Nasr-Esfahani M.; **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Momeni A. R. (2006) Rapid and efficient oxidation of Hantzsch 1,4-dihydropyridines with sodium periodate catalyzed by manganese (III) Schiff base complexes. *Bioorganic & Medicinal Chemistry,* **14**, 2720-2724.
http://dx.doi.org/10.1016/j.bmc.2005.11.051

28. **Moghadam M.;** Nasr-Esfahani M.; Tangestaninejad S.; Mirkhani V. (2006) Mild and efficient oxidation of Hantzsch 1,4-dihydropyridines with sodium periodate catalyzed by a new polystyrene-bound Mn(TPP)Cl. *Bioorganic & Medicinal Chemistry Letters,* **16**, 2026-2030. http://dx.doi.org/10.1016/j.bmcl.2005.12.072

27. **Moghadam M.;** Nasr-Esfahani M.; Tangestaninejad S.; Mirkhani V.; Zolfogol M. A. (2006) Biomimetic Aromatization of Hantzsch 1,4-Dihydropyridines with Sodium Periodate Catalyzed by a New Polystyrene-Bound Manganese Porphyrin. *Canadian Journal of Chemistry*, **86**, 1-4. http://dx.doi.org/10.1139/V05-255

26. Grivani G.; Tangestaninejad S.; Habibi M. H.; Mirkhani V.; **Moghadam M.** (2006) Epoxidation of alkenes by a readily prepared and highly active and reusable heterogeneous molybdenum-based catalyst. *Applied Catalysis A: General,* **299**, 131-136. http://dx.doi.org/10.1016/j.apcata.2005.10.032

25. Bahramian B.; Mirkhani V.; Tangestaninejad S.; **Moghadam M.** (2006) Catalytic epoxidation of olefins and hydroxylation of alkanes with sodium periodate by water soluble manganese (III) salen. *Journal of Molecular Catalysis A: Chemical,* **244**, 139-145. http://dx.doi.org/10.1016/j.molcata.2005.07.044

24. Tangestaninejad S.; **Moghadam M.;** Mirkhani V.; Kargar H. (2006) Efficient and Selective Hydrocarbon Oxidation with Sodium Periodate under Ultrasonic Irradiation Catalyzed by Polystyrene-bound Mn(TPyP).*Ultrasonics Sonochemistry*, **13**, 32-36. http://dx.doi.org/10.1016/j.ultsonch.2004.12.005

2005

23. Karami B.; Montazerozohori M.; **Moghadam M.;** Habibi M. H.; Niknam N. (2005) Selective oxidation of thiols todisulfides catalyzed by iron(III) tetraphenylporphyrin using Urea-hydrogen peroxide as oxidizing agent. *Turkish Journal of Chemistry,* **29**, 539-546.

22. Mirkhani V.; Tangestaninejad S.; **Moghadam M.;** Mohammadpoor-Baltork I.; Kargar H. (2005) Efficient oxidation of sulfides with sodium periodate catalyzed by manganese(III) Schiff base complexes. *Journal of Molecular Catalysis A: Chemical,* **242**, 251-255. http://dx.doi.org/10.1016/j.molcata.2005.07.045

21. **Moghadam M.** Tangestaninejad S.; Mirkhani V.; Kargar H.; Komeili-Isfahani H. (2005) Polystyrene-bound imidazole as a heterogeneous axial ligand for Mn(TPP)Cl and its use as hydrocarbon monooxygenation catalyst in the alkene epoxidation and alkane hydroxylation with sodium periodate under various reaction conditions. *Catalysis Communication*, **6**, 688-693.
http://dx.doi.org/10.1016/j.catcom.2005.06.012

20. Nasr-Esfahani M.; **MoghadamM.;** Tangestaninejad S.; Mirkhani V. (2005) Biomimetic Oxidation of Hantzsch 1,4-dihydropyridines with tetra-*n*-butylammonium Periodate Catalyzed by Mn(TPP)Cl. *Bioorganic & Medicinal Chemistry Letters*, **15**, 3276-3278.
http://dx.doi.org/10.1016/j.bmcl.2005.04.044

19. **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Mohammadpour-Baltork I.; Kargar H. (2005) Mild and Efficient Oxidation of Alcohols with Sodium Periodate Catalyzed by Polystyrene-bound Mn(III)porphyrin. *Bioorganic & Medicinal Chemistry*,**13**, 2901-2905.
http://dx.doi.org/10.1016/j.bmc.2005.02.012

2004

18. Mirkhani V.; Tangestaninejad S.; **Moghadam M.;** Moghbel M. (2004) Cytochrome P-450 Dependent Monooxygenases Model System: Rapid and Efficient Oxidation of Primary Aromatic Amines to Azo Derivatives with Sodium Periodate Catalyzed by Manganese(III) Schiff Base Complexes. *Bioorganic & Medicinal Chemistry*, **12**, 4673-4677.
http://dx.doi.org/10.1016/j.bmc.2004.06.029

17. **Moghadam M.;** Tangestaninejad S.; Habibi M. H.; Mirkhani V. (2004) A Convenient Preparation of Polymer-Supported Manganese Porphyrin and Its use as Hydrocarbon Monooxygenation Catalyst. *Journal of Molecular Catalysis A: Chemical*, **217**, 9-12.
http://dx.doi.org/10.1016/j.molcata.2004.03.001

16. Mirkhani V.; Tangestaninejad S.; **Moghadam M.;** Yadollahi B.; Alipanah L. (2004) Cerium Polyoxometalate as a Reusable Catalyst for Acetylation and Formylation of Alcohols. *Monatshefte fur Chemie*, **135**, 1257-1263.
http://dx.doi.org/10.1007/s00706-004-0196-4

15. **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Shaibani R. (2004) Rapid and Efficient Ring Opening of Epoxides Catalyzed by a New Electron- Deficient Tin(IV) Porphyrin. *Tetrahedron*, **60**, 6105-6111.
http://dx.doi.org/10.1016/j.tet.2004.05.069

14. **Moghadam M.;** Tangestaninejad S.; Mirkhani V.; Mohammadpoor-Baltork I.; Shaibani R. (2004) Rapid and Efficient Acetylation of Alcohols and Phenols with Acetic Anhydride Catalyzed by Electron- Deficient Tin(IV) Porphyrin. *Journal of Molecular Catalysis A: Chemical*, **219**, 73-78.
http://dx.doi.org/10.1016/j.molcata.2004.05.004

13. Mirkhani V.; Tangestaninejad S.; **Moghadam M.;** Moghbel M. (2004) Rapid and Efficient Oxidative Decarboxylation of Carboxylic Acids with Sodium Periodate Catalyzed by Manganese (III) Schiff Base Complexes. *Bioorganic & Medicinal Chemistry*, **12**, 903-906.
http://dx.doi.org/10.1016/j.bmc.2003.12.025

2003

12. Mirkhani V.; Tangestaninejad S.; **Moghadam M.;** Karimian Z. (2003) Oxidation of Primary Aromatic Amines to Azo Derivatives with Sodium Periodate Using Polystyrene Bound Manganese (III) Porphyrin. *Journal of Chemical Research (S)*, 792-794.
http://dx.doi.org/10.3184/030823403322840413

11. Mirkhani V.; Tangestaninejad S.; **Moghadam M.;** Karimian Z. (2003) Efficient Oxidative Decarboxylation of Carboxylic Acids with Sodium Periodate Catalyzed by Supported Manganese (III) Porphyrin. *Bioorganic & Medicinal Chemistry Letters*, **13**, 3433-3435.
http://dx.doi.org/10.1016/S0960-894X(03)00749-2

2002

10. Khorasani J. H.; Amini M. K.; Motaghi H.; Tangestaninejad S.; **Moghadam M.** (2002) Manganese Porphyrin Derivatives as Carriers for Thiocyanate-Selective Electrodes: The Influence of Porphyrin Substituents and Additives on the Response Properties. *Sensors & Actuators B*, **87**, 448-456.
http://dx.doi.org/10.1016/S0925-4005(02)00294-0

9. Tangestaninejad S.; Habibi M. H.; Mirkhani V.; **Moghadam M.** (2002) Manganese (III) Porphyrin Supported on Polystyrene as a Heterogeneous Alkane Epoxidation and Alkane Hydroxylation Catalyst. *Synthetic Communications*, **32**, 3331-3337.
http://dx.doi.org/10.1081/SCC-120014040

8. Tangestaninejad S.; Habibi M. H.; Mirkhani V.; **Moghadam M.** (2002) Rapid and Efficient Acetylation of Alcohols and Phenols with Acetic Anhydride Using Tin (IV) Porphyrin as Catalyst. *Synthetic Communications*, **32**, 1337-1343.
http://dx.doi.org/10.1081/SCC-120003629

7. Tangestaninejad S.; Habibi M. H.; Mirkhani V.; **Moghadam M.** (2002) Mn(Br_8TPPS) Supported on Amberlite IRA-400 as a Robust and Efficient Catalyst for Alkene Epoxidation and Alkane Hydroxylation. *Molecules*, **7**, 264-270.
http://dx.doi.org/10.3390/70200264

2001

6. Tangestaninejad S.; Habibi M. H.; Mirkhani V.; **Moghadam M.** (2001) Conversion of Epoxide Into 1,3-Dioxolanes Catalyzed by High Oxidation State Metalloporphyrins. *Journal of Chemical Research (S)*, 365-367.
http://dx.doi.org/10.3184/030823401103170296

5. Tangestaninejad S.; Habibi M. H.; Mirkhani V.; **Moghadam M.** (2001) Preparation of an Insoluble Polymer-Supported Mn(III) Porphyrin and Its Use as a New Alkene Epoxidation and Alkane Hydroxylation Catalyst. *Journal of Chemical Research (S)*, 444-445.
http://dx.doi.org/10.3184/030823401103168415

2000

4. Mirkhani V.; Tangestaninejad S.; **Moghadam M.;** Yadollahi B. (2000) Efficient and Selective Epoxidation of Alkenes by Supported Manganese Porphyrin under Ultrasonic Irradiation. *Journal of Chemical Research (S)*, 515-517.
http://dx.doi.org/10.3184/030823400103166166

1999

3. Mirkhani V.; Tangestaninejad S.; **Moghadam M.** (1999) Mild and Efficient Alkene Epoxidation and Alkane Hydroxylation by Manganese (III) Porphyrin on IRA-400 Ion-Exchange Resin. *Journal of Chemical Research (S)*, 722-723.
http://dx.doi.org/10.1039/A906303J

1998

2. Tangestaninejad S.; **Moghadam M.** (1998) Alkene Epoxidation and Alkane Hydroxylation With Periodate Catalysed by Manganese (III) Porphyrin Supported on Poly(4-Vinylpyridine). *Journal of Chemical Research (S)*, 242-243.
http://dx.doi.org/10.1039/A708106E

1. Tangestaninejad S.; **Moghadam M.** (1998) Efficient Olefin Epoxidation and Alkane Hydroxylation Using Sulfonated Manganese (III) Porphyrin Supported on IRA-900 Exchange Resin. *Synthetic Communications*, **28**, 427-432.
http://dx.doi.org/10.1080/00397919808005096