



Dr. Leila Ma'mani

I. PERSONAL INFORMATION

Name: **Leila Ma'mani**

Assistant Professor,

Department of Nanotechnology

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II. Positions

	Date
-Secretary of the Nanotechnology Committee of the Ministry of Agriculture	2022- now
-Delegate of Iran in the Cooperation Committee of Iran- Philippines in the field of nanotechnology	2019- 2022
-Head of Department of Nanotechnology	2015- 2021
-Secretary of the Scientific Committee of Nanotechnology of ABRII	2015- 2021
-Secretary of the Research Committee- Nanotechnology Committee of the Ministry of Agriculture	2018- 2021

III. EDUCATIONAL RECORDS

Ph.D. of Organic Chemistry

Degree	Institution	Date
B.Sc	Bu-Ali Sina Univ.	1997-2001
M.Sc	Institute for Advanced Studies in Basic Sciences (IASBS).	2001-2004
Ph.D.	Tarbiat Modares Univ.	2005-2010
Postdoc	Pharmaceutical Sciences Research Center, Advance nanomaterials and Nano- Drug Delivery Tehran Univ. of Medical Sciences	2010-2015

IV. ACADEMIC EXPERIENCES

1. Assistant professor, Department of Nanotechnology, Agricultural Biotechnology Research Institute of Iran (ABRII), Karaj, Iran, (Since 2015).
2. Head of Department of Nanotechnology, Agricultural Biotechnology Research Institute of Iran (ABRII), Karaj, Iran, (2015-2021).

V. SUPERVISION

1. Supervisory of 20 Ph.D. and M.Sc. graduated students.
2. Advisory of 15 Ph.D. and 5 M.Sc. graduated students.

VI. RESEARCH INTERESTS

1. Design, Synthesis and evaluating of nanoporous, organic- inorganic hybrid and nanocomposite delivery systems
2. Targeted delivery and slow release of biological and chemical compounds (drug/pesticide, nutrients/fertilizer, enzyme, RNA, CRISPR/Cas and etc.)
3. Stabilization of biological and organic compounds (enzyme and natural based active compounds)
4. Magnetically nanoparticles, synthesis and applications
5. Nano/biocatalysis

VII. Awards and honors

1. Outstanding Yong Manager Award, ABRII, 2020.
2. Post-doctorate grant, National Elites Foundation of Iran (2012- 2014).
3. Shahid Chamran award from Iran National Elite Foundation (2014).
4. Outstanding Student Award, IASBS, 2003.

VIII. JOURNAL PAPERS

2023

1. Noruzi, M.; Hadian, P.; Soleimanpour, L.; **Ma'mani, L.**; Shahbazi, K. Hydroxyapatite nanoparticles: an alternative to conventional phosphorus fertilizers in acidic culture media. *Chemical and Biological Technologies in Agriculture*, (2023) 10, 1-18.
2. Farhadi, S.; **Ma'mani, L.**; Kermani, MJ.; Ghanbari, A.; Naji, AM.; Zeinalabedini, M.; Mahdavi, V. Rice husk-derived biogenic silica nanoparticles and zinc oxide nanoparticles as nano-additives for improving in vitro quince rootstock. *Plant Cell, Tissue and Organ Culture (PCTOC)* (2023) 1-9.
3. Hasanaklou, NT; Mohagheghi, V.; Hasanaklou, HT; **Ma'mani, L.**; Malekmohammadi, M. Moradi, F. Seed Nanopriming Using Silica Nanoparticles: Effects in Seed Germination and Physiological Properties of Stevia Rebaudiana Bertoni. (*Chemical and Biological Technologies in Agriculture –2023*).
4. Raiesi Ardali, T., **Ma'mani, L.**, Chorom, M.. The efficiency of Fe₃O₄ nanoparticles coated with humic acid on tomato growth characteristics (*Lycopersicon esculentum* L.) *Journal of Plant Ecophysiology* (2023) 1 (14), 34.
5. Afzali, S, Hosseini, S. M. B., **Ma'mani, L.**, & Ahmadi Effects of Nano Silica and Salicylic Acid on Yield and Yield Components in Corn (*Zea mays* L.)-Mungbean (*Vigna radiata* L.) Monocropping and Intercropping under Drought Stress ...*Iranian Journal of Field Crops Research* (2023) 21 (1), 91-112.

2022

6. Parnian, J.; **Ma'mani, L.**; Bakhtiari, M.R.; Safavi, M. Overcoming the non-kinetic activity of EGFR1 using multi-functionalized mesoporous silica nanocarrier for in vitro delivery of siRNA. *Scientific Reports*, (2022) 12, 17208.
7. Raiesi-Ardali, T.; **Ma'mani, L.**; Chorom, M. et al. Improved iron use efficiency in tomato using organically coated iron oxide nanoparticles as efficient bioavailable Fe sources. *Chem. Biol. Technol. Agric.* (2022) 9, 59.
8. Khafri, A.Z., Zarghami, R., **Ma'mani, L.** et al. Enhanced Efficiency of In Vitro Rootstock Micro-propagation Using Silica-Based Nanoparticles and Plant Growth Regulators in Myrobalan 29C (*Prunus cerasifera* L.). *J Plant Growth Regul* (2022). <https://doi.org/10.1007/s00344-022-10631-3>.
9. Eyvaraghi, A.M.; Mohammadi, E.; Manavizadeh, N.; Nadimi, E.; **Ma'mani, L.** Experimental and density functional theory computational studies on highly sensitive

- ethanol gas sensor based on Au-decorated ZnO nanoparticles. *Thin Solid Films* (2022) 741, 139014.
10. Alizadeh, M., Sheikhi-Garjan, A., **Ma'mani, L.** et al. Ethology of Sunn-pest oviposition in interaction with deltamethrin loaded on mesoporous silica nanoparticles as a nanopesticide. *Chem. Biol. Technol. Agric.* (2022) 9, 30.
 11. Sadaf Abedi, Leila Ahangar, Reza Zarghami, **Ma'mani, L.** Evaluation of the effect of carbon nanoparticles on the proliferation of calli of date palm (Majol cultivar). *Agricultural Biotechnology Journal* (2023) 14 (4), 21-44.
 12. Alizadeh, M, Sheikhi Garjan, A.; **Ma'mani, L.**, G Hosseini Salekdeh, ... Control of Sunn-Pest, *Eurygaster integriceps* Puton, using Deltamethrin Nanopesticide Applied Entomology and Phytopathology (2022) 89 (2), 213-223.

2021

1. Salekdeh, P.R.; **Ma'mani, L.**; Tavakkoly-Bazzaz, J.; Mousavi, H.; Modarressi, M.H.; Salekdeh, G.H. *Journal of Nanobiotechnology*, **2021**, 19, 1-16. Bi-functionalized aminoguanidine-PEGylated periodic mesoporous organosilica nanoparticles: a promising nanocarrier for delivery of Cas9-sgRNA Ribonucleoproteine.
2. Dashtestani, F., Ma'mani, L., Jokar, F. et al. *Sci Rep*, 2021, 11, 21386. Zeolite-based nanocomposite as a smart pH-sensitive nanovehicle for release of xylanase as poultry feed supplement.
3. Soleimanpour, L. Hosseini, SMB; **Ma'mani, L.**; Oveisi, M. *Cereal Research* 10 (4), 323-338. Application of nano iron and iron nitrate in wheat and pea intercropping: An approach to sustainable agriculture.
4. Mahdavi, V.; Taghadosi, F.; Dashtestani, F.; Bahadorikhalili, S.; Farimani, M.M.; **Ma'mani, L.**; Khaneghah, A.M. *Journal of Environmental Chemical Engineering*, **2021**, 9 (5), 106117. "Aminoguanidine modified magnetic graphene oxide as a robust nanoadsorbent for efficient removal and extraction of chlorpyrifos residue from water."
5. Niazian, M.; Molaahmad Nalouisi, A.; Azadi, P.; **Ma'mani, L.**; Chandler, S.F. *Planta*, **2021**, 254 (4), 1-20. "Perspectives on new opportunities for nano-enabled strategies for gene delivery to plants using nanoporous materials."
6. Fatahi, Y.; Ghaempanah, A.; **Ma'mani, L.**; Mahdavi, M.; Bahadorikhalili, S. *Journal of Organometallic Chemistry*, **2021**, 936, 121711. Palladium supported aminobenzamide modified silica coated superparamagnetic iron oxide as an applicable nanocatalyst for Heck cross-coupling reaction.
7. Bahadorikhalili, S. **Ma'mani, L.**; Lijan, H.; Mahdavi, M. *Journal Materials Today Communications*, **2021**, 26, 101913. $\gamma\text{-Fe}_2\text{O}_3\text{@SiO}_2(\text{CH}_2)_3\text{-HPBM-Pd}$ as a versatile boosted nanocatalyst for carbon-carbon bond formation.
8. Raiesi Ardali, T.; Soleimanpour, L. Chorom, M.; **Ma'mani, L.** *Journal of Biosafety* 13 (4). Silicon and Silica Nanoparticles: Uptake and Transport Mechanism in Plants and Their Effects on Plant Yield.
9. Mahdavi, V.; Eslami, Z.; Gordan, H.; Ramezani, S.; Peivasteh-Roudsari, L.; Khaneghah, A.M, **Ma'mani, L.** *Environmental Research*, 112563. Pesticide residues

in green-house cucumber, cantaloupe, and melon samples from Iran: A risk assessment by Monte Carlo Simulation.

2020

10. Jokar-shorijeh, F.; **Ma'mani, L.**, Sheikhi Garjan, A.; Hosseini, R.; Mahdavi, V. *Journal of Biosafety* 12 (4), 97-110. Repellency and Control of Nymph of Greenhouse Whitefly (*Trialeurodes Vaporariorum*) Using Nanobiopesticide.
11. Ariaeenejad, S.; Jokar, F.; Hadian, P.; **Ma'mani, L.**; Gharaghani, S.; Fereidoonnehzad, M.; Salekdeh, G.H. *International Journal of Biological Macromolecules*, **2020**, 164, 3462-3473. "An efficient nano-biocatalyst for lignocellulosic biomass hydrolysis: Xylanase immobilization on organically modified biogenic mesoporous silica nanoparticles".
12. Bahadorikhalili, S.; Arshadi, H.; Afrouzandeh, Z.; **Ma'mani, L.** *New J. Chem.*, **2020**, 44, 8840-8848. "Ultrasonic promoted synthesis of Ag nanoparticle decorated thiourea-functionalized magnetic hydroxyapatite: a robust inorganic-organic hybrid nanocatalyst for oxidation and reduction reactions".
13. Peyvand, P.; Vaezi, Z.; Sedghi, M.; Dalir, N.; **Ma'mani, L.**; Naderi-Manesh, H. *Pharmaceutical Development and Technology*, **2020**, 25:9, 1150-1161. "Imidazolium-based ionic liquid functionalized mesoporous silica nanoparticles as a promising nano-carrier: response surface strategy to investigate and optimize loading and release process for Lapatinib delivery".
14. Bahadorikhalili, S.; Arshadi, H.; Afrouzandeh, Z.; **Ma'mani, L.** *New Journal of Chemistry*, **2020**, 44 (21), 8840-8848. "Ultrasonic promoted synthesis of Ag nanoparticle decorated thiourea-functionalized magnetic hydroxyapatite: a robust inorganic-organic hybrid nanocatalyst for oxidation and ..."
15. Bahadorikhalili, S.; Ansari, S.; Hamedifar, H.; **Ma'mani, L.**; Babaei, ; Egra,; Mahdavi, M., *Applied Organometallic Chemistry* **2019**, e4769 "Mo(CO)₆-assisted Pd-supported magnetic graphene oxide catalyzed carbonylation cyclization as an efficient way for the synthesis of 4(3H)-quinazolinones."
16. Khodkar, A., Khezri, S.M., Pendashteh, A.R. et al. *Int. J. Environ. Sci. Technol.* **2019**, 16, 5741-5756. "A designed experimental approach for photocatalytic degradation of paraquat using α -Fe₂O₃@MIL-101(Cr)@TiO₂ based on metal-organic framework."
17. Jajan, L. H.G.; Abolhassani, M., Hosseini, S.N.; Ghareyazie, B.; **Ma'mani, L.**; Doroud, D.; Behrouzi, A.; Ghorbani, M. *Journal of Nano Research* **2019**, 58, 20-31. "Antioxidant Enzymes Activity, Elimination of ROS, M. gryphiswaldense MSR-1, Magnetic Field, Magnetosome."

2018

18. Bahadorikhalili, S.; **Ma'mani, L.**; Mahdavi, M.; Shafiee, A. *Microporous and Mesoporous Materials*, 2018, 262, 207-216. "Copper Supported β -Cyclodextrin Functionalized PEGylated Mesoporous Silica Nanoparticle -Graphene Oxide Hybrid: An Efficient and Recyclable Nano-catalyst for Straightforward Synthesis of 2-Arylbenzimidazoles and 1,2,3-Triazoles".

19. Bahadorikhalili, S.; Ashtari, A.; **Ma'mani, L.**; Ranjbar, P.R., Applied Organometallic Chemistry, **2018**, 4, e4212, "Copper supported β -cyclodextrin-functionalized magnetic nanoparticles: Efficient multifunctional catalyst for one-pot 'green' synthesis of 1,2,3-triazolylquinazolinone derivatives".
20. Golmohamadpour, A.; Bahramian, B.; Shafiee, A.; **Ma'mani, L.** Materials Chemistry and Physics, **2018**, 218, 326-335, "Molybdenum complex supported on amine-functionalized natural sepiolite type clay mineral as a recyclable inorganic-organic hybrid catalyst for epoxidation of alkenes"
21. Golmohamadpour, A.; Bahramian, B.; Shafiee, A.; **Ma'mani, L.** J. Inorganic and Organometallic Polymers and Materials, **2018**, 5, 1991-2000, "Slow Released Delivery of Alendronate Using β -Cyclodextrine Modified Fe-MOF Encapsulated Porous Hydroxyapatite"
22. Bahadorikhalili, S.; Mahdavi, M.; **Ma'mani, L.**; Shafiee, A.; Mahdavi, H.; Akbarzadeh, T., New Journal of Chemistry, **2018**, 7, 5499-5507, "Palladium Functionalized Phosphinite Polyethyleneimine grafted Magnetic Silica Nanoparticles as an Efficient Catalyst for the Synthesis of Isoquinolino[1,2-b]quinazolin-8-ones"
23. Poorakbar, E.; Shafiee, A.; Saboury, A.A.; Rad, B.L.; Khoshnevisan, K.; **Ma'mani, L.**; Derakhshankhah, H.; Ganjali, M.R.; Hosseini, M., Process Biochemistry, **2018**, 71, 92-100, "Synthesis of Magnetic Gold Mesoporous Silica Nanoparticles Core Shell for Cellulase Enzyme Immobilization: Improvement of Enzymatic Activity and Thermal Stability"
24. Rahmatolahzadeha, R.; Hamadaniana, M.; **Ma'mani, L.**; Shafiee, A., Advances in Medical Sciences, **2018**, 2, 257-264, "Aspartic acid functionalized PEGylated MSN@GO hybrid as an effective and sustainable nano-system for in-vitro drug delivery"
25. Vineh, M. B.; Saboury, A. A., Poostchi, A.A.; **Ma'mani, L.** International J. Environmental Research, **2018**, 1, 45-57, "Physical Adsorption of Horseradish Peroxidase on Reduced Graphene Oxide Nanosheets Functionalized by Amine: A Good System for Biodegradation of High Phenol Concentration in Wastewater"
26. Davoudizadeh, T.; Sajjadi, S.M.; **Ma'mani, L.** J. the Iranian Chemical Society, **2018**, 9, 1999-2006, "Exhaustive investigation of drug delivery systems to achieve optimal condition of drug release using non-linear generalized artificial neural network method: feedback from the loading step of drug"
27. Manjili, H.M.; **Ma'mani, L.**; Naderi-Manesh, H., Drug research, **2018**, 9, 504-513, "Monodisperse Rattle-Structured Gold Nanorod-Mesoporous Silica Nanoparticles Core-Shell as Sulforaphane Carrier and its Sustained-Release Property"

2017

28. Abdous, B.; Sajjadi, S.M.; **Ma'mani, L.**, Journal of Applied Biomedicine, **2017**, 15, 3, 210-218, " β -Cyclodextrin modified mesoporous silica nanoparticles as a nano-carrier: Response surface methodology to investigate and optimize loading and release processes for curcumin delivery".
29. Rahmatolahzadeha, R.; Hamadaniana, M.; **Ma'mani, L.**; Shafiee, A., RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL

SCIENCES, **2017**, 8, 2, 1317-1328 “Synthesis and characterization of pH-responsive nanocarrier based on PEGylated imidazolium ionic liquid MSN@ GO for in-vitro curcumin delivery.”

30. Dadras, P.; Atyabi, F.; Irani, S.; **Ma'mani, L.**; Foroumadi, A.; Mirzaie, Z. H.; Ebrahimi, M.; Dinarvand, R. *European Journal of Pharmaceutical Sciences*, **2017**, 47-54. “Formulation and evaluation of targeted nanoparticles for breast cancer theranostic system.”

2016

31. **Ma'mani, L.**; Hajihosseini, E.; Saeedi, M.; Mahdavi, M.; Asadipour, A.; Firoozpour, L.; Shafiee, A.; Foroumadi, A., “Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, **2016**, 46, 306-310 Sulfonic Acid Supported Phosphonium Based Ionic Liquid Functionalized SBA-15 for the Synthesis of 2-Amino-3-cyano-4,6-diarylpyridines”.
32. Manjili, H. K.; **Ma'mani, L.**; Naderi-Manesh, Tavadod, S., M.; A. Shafiee, *PLOS ONE*, **2016**, 11, e0151344 “D, L-Sulforaphane loaded Fe₃O₄@gold core shell nanoparticles: A potential sulforaphane delivery system”.
33. Mahdavi, M.; Lijan, H.; Bahadorkhalili, S.; **Ma'mani, L.**; Ranjbar, P. R.; Shafiee, A. *RSC Adv.*, **2016**, 6 (34), 28838-28843, “Copper Supported β -Cyclodextrin Grafted Magnetic Nanoparticles as an Efficient Recyclable Catalyst for One-pot Synthesis of 1-Benzyl-1H-1,2,3-triazoldibenzodiazepinone Derivatives via Click Reaction.”
34. Tarasi, R.; Khoobi, M.; Niknejad, H.; Ramazani, A.; **Ma'mani, L.**; Bahadorkhalili, S.; Shafiee, A. *Journal of Magnetism and Magnetic Materials* **2016**, “ β -cyclodextrin functionalized poly (5-amidoisophthalic acid) grafted Fe₃O₄ magnetic nanoparticles: A novel biocompatible Nonocomposite for targeted docetaxel delivery.”

2015

35. Khatibi, A.; **Ma'mani, L.**; Khodarahmi, R.; Shafiee, A.; Maghami, P.; Ahmad, F.; Sheibani, N.; Moosavi-Movahedi, A. A. *International journal of biological macromolecules*, **2015**, 75, 67-72. “Enhancement of Thermal Reversibility and Stability of Human Carbonic Anhydrase II by Mesoporous Nanoparticles.”
36. Saeedi, M.; Jieroodi, M.; **Ma'mani, L.**; Mahdavi, M.; Alipour, E.; Shafiee, A.; Foroumadi, A. *Iran. J. Chem. Chem. Eng.* **2015**, 34. “Bronsted acidic Phosphonium based ionic liquid functionalized SBA-15: Green, recyclable and efficient for synthesis of pyrano[3,2,C] chromenone derivatives.”
37. Mouradzadegan, A.; **Ma'mani, L.**; Mahdavi, M.; Rashid, Z.; Shafiee, A.; Foroumadi, A.; Dianat, S. *RSC Advances*, **2015**, 3, 83530. “Sulfamic acid-functionalized hydroxyapatite-encapsulated γ -Fe₂O₃ nanoparticles as a magnetically recoverable catalyst for synthesis of N-fused imidazole-quinoline conjugates under solvent-free conditions.”
38. Bahadorikhalili, S.; **Ma'mani, L.**; Mahdavi, H.; Shafiee, A. *RSC Adv.*, **2015**, 5, 71297-71305. “Palladium catalyst supported on PEGylated imidazolium based phosphinite ionic liquid-modified magnetic silica core-shell nanoparticles: a worthy and highly water-dispersible catalyst for organic reactions in water.”

39. Oskouie, A. A.; Taheri, S.; **Ma'mani, L.**, Heydari, A. Catalysis Communications, 2015, 72, 6-10. "Thiourea-functionalized magnetic hydroxyapatite as a recyclable inorganic-organic hybrid nanocatalyst for conjugate hydrocyanation of chalcones with TMSCN."

2014

40. Manjili, H. K.; Naderi-Manesh, H.; Mashhadikhan, M.; **Ma'mani, L.**; Nikzad, S. Al-Mussawi, S. Journal of Paramedical Sciences (JPS), 2014, 85-90 "The effect of iron-gold core shell magnetic nanoparticles on the sensitization of breast cancer cells to irradiation".
41. Karimi, K.; Yahyavi, H.; **Ma'mani, L.**; Mahdavi, M.; Foroumadi, A.; Shafiee, A. Synthetic Communications 2014, 44, 19, 2826-2837 "Efficient and Ecofriendly Route for the Solvent-Free Synthesis of 4-Alkoxy-5H-chromen[2,3-d]pyrimidines Using Phosphonic Acid Functionalized KIT-6 Confined Ionic Liquid as Recoverable Catalyst"
42. **Ma'mani, L.**; Nikzad, S.; Manjili, H. K.; Al-Mussawi, S.; Saeedi, M.; Askarlou, S.; Foroumadi, A.; Shafiee, A. European journal of medicinal chemistry. 2014; 83C:646-654 "Curcumin-loaded guanidine functionalized PEGylated I3ad mesoporous silica nanoparticles KIT-6: Practical strategy for the breast cancer therapy".
43. **Ma'mani, L.**; Miri, S.; Mahdavi, M.; Bahadorikhalili, S.; Lotfi, E.; Foroumadi, A.; Shafiee, A. RSC Adv., 2014, 4, 48613-48620 "Palladium catalyst supported on N-aminoguanidine functionalized magnetic graphene oxide as a robust water-tolerant and versatile nanocatalyst".

2013

44. Fallah-Bagheri, A.; Moosavi-Movahedi, A.A.; Taghizadeh, M.; Khodarahmi, R.; **Ma'mani, L.**; Bijari, N.; Bohlooli, M.; Shafiee, A.; Sheibani, N.; Saboury, A.A. Biotechnology and Applied Biochemistry, 2013, 1081 "Modified β -casein restores thermal reversibility of human carbonic anhydrase II: The salt bridge mechanism".
45. Jalili-Baleh, L.; Mohammadi, N.; Khoobi, M.; **Ma'mani, L.**; Foroumadi, A.; Shafiee, A. Helvetica Chimica Acta, 2013, 96,1601-1609, "Synthesis of Monospiro-2-amino-4H-pyran Derivatives Catalyzed by Propane-1-sulfonic Acid-Modified Magnetic Hydroxyapatite Nanoparticles".

2012

46. Falahati, M.; **Ma'mani, L.**; Saboury, A. A.; Shafiee, A. Journal of the Iranian Chemical Society, 2012, 9, 157-161 "Highly Efficient Immobilization of Superoxide Dismutase into Aminopropyl Functionalized KIT-6 Mesoporous Silica Nanoparticles".
47. Falahati, M.; Saboury, A. A.; **Ma'mani, L.**; Shafiee, A.; Refieepour, H. A., International Journal of Biological Macromolecules, 2012, 50, 1048- 1054 "The

effect of functionalization of mesoporous silica nanoparticles on the interaction and stability of confined enzyme”.

48. Falahati, M.; Saboury, A. A.; Shafiee, A.; Rezayat Sorkhabadi S. M.; Kachooei, E. **Ma'mani, L.**; Thomas Haertlé, T. *Biophysical Chemistry*, **2012**, 165–166, 13–20 “Highly efficient immobilization of beta-lactoglobulin in functionalized mesoporous nanoparticles: A simple and useful approach for enhancement of protein stability”.
49. Khoobi, M.; **Ma'mani, L.**; Rezazadeh, F.; Zareie, Z.; Foroumadi, A.; Ramazani, A.; Shafiee, A. *Journal of Molecular Catalysis A: Chemical*, **2012**, 359, 74– 80. “One-pot synthesis of 4H-benzo[b]pyrans and dihydropyrano[c]chromenes using Inorganic – Organic hybrid magnetic nanocatalyst in water”
50. Fallah-Bagheri, A.; Saboury A.A.; **Ma'mani, L.**; Taghizadeh, M.; Khodarahmi, R.; Ranjbar, S.; Bohlooli, M.; Shafiee, A.; Foroumadi, A.; Sheibani, N.; Moosavi-Movahedi, A.A.; *Int J Biol Macromol.* **2012**, 51(5):933-8. “Effects of silica nanoparticle supported ionic liquid as additive on thermal reversibility of human carbonic anhydrase II”.

2011

51. Sheykhani, M.; **Ma'mani, L.**; Heydari, A. *Journal of Molecular Catalysis A: Chemical*, **2011**, 335, 253-261, “Sulfamic acid heterogenized on hydroxyapatite- encapsulated γ -Fe₂O₃ nanoparticles as a magnetic green interphase catalyst”.
52. **Ma'mani, L.**; Sheykhani, M.; Heydari, A. *Applied Catalysis A: General* **395**, **2011**, 34–38, “Nanosilver Embedded on Hydroxyapatite-Encapsulated γ -Fe₂O₃: Superparamagnetic Catalyst for Chemoselective Oxidation of Primary Amines to N-monoalkylated hydroxylamines”.
53. Falahati, M.; **Ma'mani, L.**; Saboury, A.; Shafiee, A.; Badiei, A., *Biochimica et Biophysica Acta*, **2011**, 1814, 1195–1202 “Aminopropyl Functionalized Cubic Ia3d Mesoporous Silica Nanoparticles KIT-6 as an Efficient Support for Immobilization of Superoxide Dismutase”.
54. Sheykhani, M.; Heydari, A.; **Ma'mani, L.**; *Spectrochimica Acta Part A* **2011**, 83, 379–383 “Template-free preparation of nano calcium fluorapatite using tetra-butyl ammonium fluoride”.

2010 and before

55. **Ma'mani, L.**; Sheykhani, M.; Heydari, A.; Faraji, M.; Yamini Y. *Applied Catalysis A: General* **2010**, 377, 64, “Sulfonic acid supported on hydroxyapatite-encapsulated- γ -Fe₂O₃ nanocrystallites as a magnetically Brønsted acid for N-formylation of amines”.
56. Akbari, J.; Heydari, A.; **Ma'mani, L.**; Hosseini, S. H., *Comptes Rendus Chimie* **2010**, 13, 544–547, “Protic ionic liquid [TMG][Ac] as an efficient, homogeneous and recyclable catalyst for Boc protection of amines”.
57. **Ma'mani, L.**; Heydari, A.; Sheykhani, M, *Applied Catalysis A: General* **2010**, 384, 122-127. “The Ritter Reaction under Incredibly Green protocol: Nano Magnetically Silica-Supported Brønsted Acid Catalyst”.
58. Yazdanbakhsh, M.-R.; Abbasnia, M.; Sheykhani, M.; **Ma'mani, L.** *Molecular structure* **2010**, 977, 266-273 "Synthesis of New Azo Dyes Derived from Uracil: Application for Dyeing Polyester Fibers"

59. **Ma'mani, L.**; Heydari, A.; Shiroodi, R. K. Current Organic Chemistry, **Ma'mani, L.**, 13, 758, "Nanohydroxyapatite Microspheres as a Biocompatible and Recoverable Catalyst for Synthesis of Carbon –Phosphorous Bond Formation".
60. Heydari, A.; **Ma'mani, L.** Applied Organometallic Chemistry **2008**; 22: 12, "Perchloric acid supported on silica as a Green and recyclable catalyst cyanosilylation of carbonyl compounds".
61. Karimi, B.; **Ma'mani, L.** Organic Letters, **2004**, 6, 26, 4813, "A Highly Efficient and Recyclable Silica- Based Scandium (III) Interphase Catalyst for Cyanosilylation of Carbonyl Compounds."
62. Karimi, B.; **Ma'mani, L.** Synthesis **2003**, 2503, "Scandium Triflate as an Efficient and Recyclable Catalyst for Chemoselective Conversion of Carbonyl Compounds to 1,3 -Oxathiolanes."
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