

CURRICULUM VITAE



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Education:

Degree	Years	University	Subject
B.Sc.	1991-1995	Shahid Beheshti (Tehran)	Pure Chemistry
M.Sc.	2003-2006	Ferdowsi (Mashhad)	Organic Chemistry
Ph.D.	2009-2012	National University of Malaysia (UKM)	Chemistry- Phytochemistry

Employment and Experience:

Years	Position	Employer (Iran)
2000-2009	The Laboratory Expert	Department of Chemistry (Hakim Sabzevari University))
2012 - Current	Academic Staff (Associate Professor)	Department of Chemistry (Hakim Sabzevari University)

Teaching Experience:

- Advanced Organic Chemistry (MSc)
- Organic Synthesis (MSc)
- New Aspect in Organic Chemistry (MSc)
- Advanced Spectroscopic Methods in Organic Chemistry (MSc)
- Organic Chemistry (I, II & III)
- Organic Chemistry Spectroscopy
- Identification of Organic Compounds
- Identification of Organic Compounds from Natural Sources
- Phytochemistry
- Medicinal Chemistry
- Environmental Chemistry

Publications:

Book:

Gholizadeh, M.; **Mahdavi, B.** Safety in the Chemical Laboratories 1^{ed}. 2004; 2^{ed}. 2008, Sabzevar Tarbiat Moallem University, Sabzevar.

Gholizadeh, M.; **Mahdavi, B.** A review of Experimental Organic Chemistry 1^{ed}. 2003; 2^{ed}. 2008, Sabzevar Tarbiat Moallem University, Sabzevar.

Papers in Journals:

1) The Effect of Magnetic Water on Growth and Quality Improvement of Poultry, M. Gholizadeh, H. Arabshahi, M. Saeidi, **B. Mahdavi**, *Middle-East Journal of Scientific Research* **2008**, 3 (3), 140-144

2) Selective Protection of Alcohols as 2-Tetrahydropyranyl Acetals Using Keggin $H_3PW_{12}O_{40}$ Effect of Different Reaction Parameters, R. Tayebee, **B. Mahdavi**, *Asian Journal of Chemistry*, **2009**, 21, 1565-1568

3) Antibacterial effect of phenyl fatty hydroxamic acids synthesized from canola oil, H. Jahangirian, J. Haron, S. Silong, N. A. Yusof, K. Shameli, S. Eissazadeh, R. Rafiee-Moghaddam, **B. Mahdavi**, M. Jafarzade, *Journal of Medicinal Plants Research*, **2011**, 5, 4826-4831.

4) Benzyl and Methyl Fatty Hydroxamic Acids Based on Palm Kernel Oil as Chelating Agent for Liquid-Liquid Iron (III) Extraction, J. Haron, H. Jahangirian, S. Silong, N. A. Yusof, A. Kassim, R. Rafiee-Moghaddam, **B. Mahdavi**, M. Peyda, Y. Abdollahi, *International Journal of Molecular Science*, **2012**, 13, 2148-2159

5) Essential oil composition of three air-dried parts of *Etlingera brevilabrum*, **B. Mahdavi**, W.A. Yaacob, Laily B. Din and M.A. Siti Aisha, *J. Essential Oil Bearing Plants*, **2012**, 15(4), 539-544

6) Antimicrobial Activity of Consecutive Extracts of *Etlingera brevilabrum*, **B. Mahdavi**, W.A. Yaacob, Laily B. Din & I. Nazlina, *Sanis Malaysiana*, **2012**, 41(10), 1233-1237.

- 7) Antioxidant Activity of Consecutive Extracts of the Base, Stem and Leaves of *Etlingera brevilabrum*, **B. Mahdavi**, W.A. Yaacob, Laily B. Din & H. Jahangirian, *Asian Journal of Chemistry*, **2013**, 25(7), 3937-3941
- 8) Antifungal Properties of Phenyl Fatty Hydroxamic Acids and Their Copper Complexes Synthesized Based on Canola and Palm Kernel Oils, M. J. Haron, H. Jahangirian, M. H. S. Ismail, R. R. Moghaddam, M. Rezayi, K. Shameli, Y. Gharayebi, Y. Abdollahi, M. Peyda, **B. Mahdavi**, *Asian Journal of Chemistry*, **2013**, 25(8), 4183-4188.
- 9) Unexpected Reduction of C-Cl Bond to C-H Bond by hydrazine-Mediated Reaction During the Synthesis of Alkylbenzimidazoles Derivatives, **B. Mahdavi**, M. Rahimizadeh, M. Bakavoli, E. Rezaei-Seresht, and M. Fatemi, *Jordan J. of Chemistry*, **2013**, 8(1), 63-69
- 10) Characterization and Chemical composition of the Volatile Oils from Aerial Parts of *Eryngium bungei* Boiss. (Apiaceae) Using Traditional Hydrodistillation, Microwave Assisted Hydrodistillation and Head Space Solid Phase Microextraction Methods Prior to GC and GC/MS Analyses: A Comparative Approach M. Mohammadhosseini, **B. Mahdavi**, H. Akhlaghi, *J. Essential Oil Bearing Plants*, **2013**, 16(5), 613-623
- 11) Chemical constituents of the aerial parts of *Etlingera brevilabrum* (Zingiberaceae), **B. Mahdavi**, *Der Pharma Chemica*, **2014**, 6(2), 360-365
- 12) Characterization of Chemical Composition and Antioxidant Properties of *Trachyspermum ammi* Seed as a Potential Medicinal Plant, H. Akhlaghi, **B. Mahdavi**, H. Rezaei, *Journal of Chemical Health Risks*, **2014**, 4(4), 9-16
- 13) *Sclerorhachis Platyrachis* (Boiss.) Podlech Ex Rech. F.: an Indigenous Medicinal Plant from Northeastern Iran; Essential Oil Composition, Total Flavonoid Content and Antioxidant Activity, H. Akhlaghi, S. Akhlaghi, **B. Mahdavi**, H. Rezaei, *Journal of Chemical Health Risks*, **2015**, 5(2), 129-135
- 14) Chemical Composition of Essential Oils from Aerial Parts of *Ferula gummosa* (Apiaceae) in Jajarm Region, Iran Using Traditional Hydrodistillation and Solvent-Free Microwave Extraction Methods: A Comparative Approach, M. Mohammadhosseini, **B. Mahdavi** & M. Shahnama, *J. Essential Oil Bearing Plants*, **2015**, 18(6), 1321-1328
- 15) Chemical Composition, Antioxidant, and Antibacterial Activity of Essential Oils from *Etlingera brevilabrum*, **B. Mahdavi**, W.A. Yaacob, Laily B. Din, I. Nazlina & Lee Y. Heng, *Records of Natural Products* **2016**, 10(1), 22-31.
- 16) Contents of Aerial Parts of *Salvia leriifolia* Benth, Z. Hosseinpoor, **B. Mahdavi**, E. Rezaei-Seresht, *Journal of Chemical Health Risks*, **2016**, 6(3), 185-194
- 17) Comparing larvicidal effect of methanol extract of the aerial parts of oleander (*Nerium oleander* L.) and henbane (*Hyoscyamus niger* L.) plants on *Culex* spp larvae, A. Baharshahi, M. R. Vaezi- Kakhki, **B. Mahdavi**, M. Behravan, *Pars Journal of Medical Sciences*, **2017**, 14(4), 25- 33
- 18) Chemical compositions of essential oils from *Etlingera brevilabrum*: A comparative analysis using GC×GC/TOFMS **B. Mahdavi**, *Trends in Phytochemical Research*, **2017**, 1(1), 15-22
- 19) Chemical composition, antioxidant, and antibacterial activity of essential oils from *Etlingera Sayapensis* A.D. Poulsen & Ibrahim **B. Mahdavi**, W.A. Yaacob, Laily B. Din, *Asian Pacific Journal of Tropical Medicine*, **2017**, 10(8), 819-826
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- 21) Antioxidant and Antimicrobial Activity of the Extracts from Different Parts of *Etlingera sayapensis* (Zingiberaceae) **B. Mahdavi**, W.A. Yaacob, Laily B. Din, *Sanis Malaysiana*, **2017**, 46(9), 1565-1571
- 22) Phytochemical Study of Medicinal Smokes from *Etlingera brevilabrum* Leaves **B. Mahdavi**, W.A. Yaacob, Laily B. Din, *Journal of Herbal Medicine*, **2018**, 13, 52-62

- 23) Poly(aminohippuric acid)–sodium dodecyl sulfate/functionalized graphene oxide nanocomposite for amplified electrochemical sensing of gallic acid, M. Baghayeri, A. Amiri, E. Hasheminejad, **B. Mahdavi**, *Journal of the Iranian Chemical Society*, **2018**,15(9), 1931-1938
- 24) Synthesis, Antioxidant and Antibacterial Activity of Azo Dye-Stilbene Hybrid Compounds E. Rezaei-seresht, **B. Mahdavi**, M. Salimi, *Pigment & Resin Technology*, **2019**, 48(1), 84-88
- 25) A new effective nano-adsorbent and antibacterial material of hydroxyapatite, M. Chahkandi1, S. R. Saadatdar, A. M. Mirzaei, **B. Mahdavi**, S. M. Hosseini-Tabar *Journal of the Iranian Chemical Society*, **2019**, 16(4), 695-705
- 26) Green and selective iodination of diamondoid adamantane by β -cyclodextrin as a molecular reactor, E. Rezaei-Seresht, M. Rahmandoust, **B. Mahdavi**, *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2019**, 95, 51–54
- 27) Chemical Composition, Antioxidant, Antibacterial, Cytotoxicity, and Hemolyses Activity of Essential Oils from Flower of *Matricaria chamomilla* var. *Chamomilla*, **B. Mahdavi**, F. Ghorat, M. S. Nasrollahzadeh, M. Hosseini-tabar, H. Rezaei-Seresht, *Anti-Infective Agents*, **2019**, 18(3): 224 - 232
- 28) Preparation, characterization, and assessment of cytotoxicity, antioxidant, antibacterial, antifungal, and cutaneous wound healing properties of titanium nanoparticles using aqueous extract of *Ziziphora clinopodioides* Lam leaves N. Seydi, **B. Mahdavi**, S. Paydarfard, A. Zangeneh, M. M. Zangeneh, F. Najafi, A. R. Jalalvand, E. Pirabbasi, *Applied Organometallic Chemistry*, **2019**, e5009
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- 30) Assessment of antioxidant, cytotoxicity, antibacterial, antifungal, and cutaneous wound healing activities of green synthesized manganese nanoparticles using *Ziziphora clinopodioides* Lam leaves under in vitro and in vivo condition, . **B. Mahdavi**, S. Paydarfard, M. M. Zangeneh, S. Goorani, N. Seyedi, A. Zangeneh, *Applied Organometallic Chemistry*, **2019**, e5248
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- 33) Chemical Composition, Antimicrobial, Hemolytic, and Antiproliferative Activity of Essential Oils from *Ephedra intermedia* Schrenk & Mey, J. Ni, **B. Mahdavi**, S, Ghezi, *J. Essential Oil Bearing Plants*. **2019**, 22 (6) 1562 – 1570.
- 34) Chemical Composition and Bioactivity of Essential Oil and Extracts of *Salvia limbata* C.A. Mey (Lamiaceae), **B. Mahdavi**, S. Ghezi, B. Maleki, *Current Bioactive Compounds*, **2020**,16(9): 1299 - 1305
- 35) Nanostructural Cu-Doped ZnO Hollow Spheres as an Economical and Recyclable Catalyst in the Synthesis of 1H-pyrazolo[1,2-b]phthalazine-5,10-diones and Pyrazolo[1,2-a][1,2,4]triazole-1,3-diones, B. Maleki, R. Nejat, H. Alinezhad, S. M. Mousavi, **B. Mahdavi**, M. Delavari, *Organic Preparation and Procedures International*, **2020**, 52(4), 328-339
- 36) Comparison of Major Constituents and Antioxidant Activity of *Polygonum cuspidatum* Root with *Polygonum afghanicum* Root. E. Rezaei-Seresh, **B. Mahdavi**, M. Parandvarmanesh, H. Rezaei-Seresh, A. Ovliyaei. *Innovation in food science and technology* **2020**,

- 37) HPLC phenolic profile and induction of apoptosis by *Linum usitatissimum* extract in LNCaP cells by caspase3 and Bax pathways, X. Zhou, N. Huang, W. Chen, T. Xiaoling, **B. Mahdavi**, A. Raofi, D. Mahdian, H. Atabati, *AMB Express* **2020**,10:203
- 38) Chemical Composition, Antioxidant, Antimicrobial and Anti proliferative Activities of Essential Oil and Extract of the Fruits of *Etilinger sayapensis*, M. Li, **B. Mahdavi**, A. Yaacob Wan, B. D. Laily, *J. Essential Oil Bearing Plants*, **2020**, 23 (5), 931 – 943
- 39) Simulation of adsorption and release of doxepin onto ZIF-8 including in vitro cellular toxicity and viability, X. Dou, M. Keywanlu, R. Tayebbe, Behnam Mahdavi, *Journal of Molecular Liquids*, **2021**, 115557.
- 40) Green synthesis of NiO nanoparticles using *Calendula officinalis* extract: Chemical characterization, antioxidant, cytotoxicity, and anti-esophageal carcinoma properties, Y. Zhang, **B. Mahdavi**, M. Mohammadhosseini, E. Rezaei-Seresht, S. Paydarfard, M. Qorbani, M. Karimian, N. Abbasi, H. Ghaneialvar, E. Karimi, *Arabian Journal of Chemistry*, **2021**, 14, 103105
- 41) Green synthesis of NiONPs using *Trigonella subenervis* extract and its applications as a highly efficient electrochemical sensor, catalyst, and antibacterial agent, **B. Mahdavi**, S. Paydarfard, E. Rezaei-Seresht, M. Baghayeri, Marzieh Nodehi, *Applied Organometallic Chemistry*, **2021**, e6264.
- 42) Antidiabetic effect of *Sophora pachycarpa* seeds extract in streptozotocin-induced diabetic mice: a statistical evaluation, **B. Mahdavi**, T. Hajar, A. Ghodsi, M. Mohammadhosseini, M. Mehmandost, E. Talebi, *Journal of Investigative Medicine*, **2021**, 1818.
- 43) Bone Marrow Mesenchymal Stem Cell Condition Medium Loaded on PCL Nanofibrous Scaffold Promoted Nerve Regeneration After Sciatic Nerve Transection in Male Rats, A. Raofi, Y. Sadeghi, A. Piryaei, E. Sajadi, A. Aliaghaei, A. Rashidani-Rashidabadi, F. Fadaei-Fatabadi, **B. Mahdavi**, M. A. Abdollahifar, A. Mousavi-Khaneghah, *Neurotoxicity Research*, **2021**, 39, 1470-1486.
- 44) An overview of the genus *Aloysia* Paláu (Verbenaceae): Essential oil composition, ethnobotany and biological activities, M. Mohammadhosseini, C. Frezza, A. Venditti, **B. Mahdavi**, *Natural Product Research*, **2021**,1907576.
- 45) Profiling of the essential oil compositions from the flowers and leaves of *Tanacetum fisherae* Aitch. & Hemsl., an endemic plant in Kerman province, Iran, M. Mohammadhosseini, A. Venditti, **B. Mahdavi**, M. R. Kianasab, R. Shirazi, *Natural Product Research*, **2021**, 1924711.
- 46) Characterization of essential oils and volatiles from the aerial parts of *Mentha pulegium* L. (Lamiaceae) using microwave-assisted hydrodistillation (MAHD) and headspace solid phase microextraction (HS-SPME) in combination with GC-MS, M. Mohammadhosseini, A. Venditti, **B. Mahdavi**, *Natural Product Research*, **2021**, 1960523.
- 47) The Genus *Haplophyllum* Juss.: Phytochemistry and Bioactivities—A Review, M. Mohammadhosseini, A. Venditti, C. Frezza, M. Serafini, A. Bianco, **B. Mahdavi**, *molecules*, **2021**, 26154664.
- 48) Anti-leukemia properties of cadmium nanoparticles in the in vitro and in vivo condition: A chemobiological study, Y. Miao, **B. Mahdavi**, M. M. Zangeneh, *Archive of Medical science*, **2021**, DOI: <https://doi.org/10.5114/aoms/142465>.
- 49) *Calendula officinalis* green-mediated silver nanoparticles: Formulation, characterization and assessment of colorectal cancer activities green-mediated silver nanoparticles. Y. Xu, **B. Mahdavi**, M. M. Zangeneh, A. Zangeneh, M. Qorbani, S. Paydarfard, *Archive of Medical science*, **2021**, DOI: <https://doi.org/10.5114/aoms/142350>
- 50) Anti-breast carcinoma effects of green synthesized nickel nanoparticles from *Alhagi sparsifolia* leaf aqueous extract: A pre-clinical trial study, Q. Ren, S. Goorani, **B. Mahdavi**, K. Rashidi, M. M. Zangeneh, *Archive of Medical science*, **2022**, DOI: <https://doi.org/10.5114/aoms/145112>.
- 51) Nanocomposite Fe₃O₄@GO-NH as a Reusable Heterogeneous Catalyst for the Three-component Synthesis of 2-Amino-4H-chromenes, E. Rezaei-Seresht, S. Noroozi, **B. Mahdavi**, *Organic Preparations and Procedures International*, **2022**, <https://doi.org/10.1080/00304948.2022.2034463>

- 52) Palladium nanoparticles decorated Chitosan-Pectin modified Kaolin: It's catalytic activity for Suzuki-Miyaura coupling reaction, reduction of the 4-nitrophenol, and treatment of lung cancer, M. Shahriari, M. A. H. Sedigh, M. Shahriari, M. Stenzel, M. M. Zangeneh, A. Zangeneh, **B. Mahdavi**, M. Asadnia, J. Gholami, B. Karmakar, H. Veisi. *Inorganic Chemistry Communications*, **2022**, 141: 109523.
- 53) Preparation and characterization of a novel magnetized nanosphere as a carrier system for drug delivery using *Plantago ovata* Forssk. Hydrogel combined with mefenamic acid as the drug model. **B. Mahdavi**, S. Hosseini, M. Mohammadhosseini, M. Mehrshad. *Arabian Journal of Chemistry*, **2022**, 15, 104128.
- 54) *Euphorbia granulata* Forssk: Evaluation of antioxidant activity, cytotoxicity, and apoptosis induction in breast cancer cells. **B. Mahdavi**, H. Zare, M. Qorbani, H. Atabati, M. R. V. Kakhki, A. Raoofi, V. Ebrahimi. *South African Journal of Botany*, **2022**, 150, 576-582.

Papers in Seminars:

- 1) Unexpected Reduction of 2-(1-Chloroethyl) Benzimidazoles to 2-Ethylbenzimidazoles by hydrazine, M. Rahimizadeh, **B. Mahdavi**, M. Bakavoli, 15th Iranian Organic chemistry Conference, **2008**
- 2) Composition Analysis by Comprehensive 2D GC with Time-of-flight Mass Spectrometry of Essential Oil from Leaves of *Etilingera brevilabrum*, **B. Mahdavi**, Laily Bin Din, W.A. Yaacob, M.A. Siti Aishah, 16th Malaysian Chemical congress, **2010**
- 3) Composition Analysis of Essential Oils from Rhizome and Stem of *Etilingera brevilabrum* by GC×GC/TOFMS, **B. Mahdavi**, Laily B. Din, W.A. Yaacob, M.A. Siti Aishah, 1th Iranian Students Scientific Conference in Malaysia, **2011**.
- 4) Trapping of Smokes from *Etilingera brevilabrum* Leaves to Obtain Usable Liquids, **B. Mahdavi**, W.A. Yaacob, Laily B. Din, Mohamad Amran Mohd Salleh and Rozita Omar, 13th Advances in Extraction Technology International Symposium, **2011**
- 5) Total Phenolic Content and DPPH Radical Scavenging Activity of Pyrolytic Oils from Leaves of *Etilingera brevilabrum*, **B. Mahdavi**, W.A. Yaacob, Laily B. Din, Mohamad Amran Mohd Salleh and Rozita Omar, *International Conference on Natural Products (ICNP)*, Malaysia, **2011**
- 6) Antioxidant Activity and Total Phenolic Content of Methanolic Extract of the Base of *Etilingera brevilabrum*, **B. Mahdavi**; Laily B. Din; W.A. Yaacob, *International Conference on Natural Products (ICNP)*, Malaysia, **2011**
- 7) A Comparison on Antioxidant Activity of Two *Polygonum* Species, **B. Mahdavi**; E. Rezaei-Seresht; M. Parand Varmanesh, *International Conference on Natural Products*, Mashhad, Iran, **2013**
- 8) Antioxidant Activity, Total Phenolic and Flavonoid Content in *Salvia lerrifolia* from Sabzevar, M. Baghaei Nezhad, N. Mollania, S. Kazemi Noureini, **B. Mahdavi**, Kianmehr H., *International Conference on Natural Products*, Mashhad, Iran, **2013**
- 9) Determination of Total Phenolic and Flavonoid Content of Aerial Parts of *Salvia leriifolia* Benth. From Sabzevar –Iran, **B. Mahdavi**, E. Rezaei-Seresht, Z. Hoseinpoor, 4th National Congress on Medicinal Plants, Tehran, Iran, **2015**.
- 10) Studying on Total Phenolic Content and Total Flavonoid Content of *Ferula ovina* From Sabzevar, **B. Mahdavi**, E. Rezaei-Seresh, S. Riyahi Farsani, 4th National Congress on Medicinal Plants, Tehran, Iran, **2015**.
- 11) Determination of Antioxidant Activity of Methnolic Extract of *Salvia leriifolia* Benth Z. Hoseinpoor, **B. Mahdavi**, 5th National Congress on Medicinal Plants, Isfahan, Iran, **2016**.

- 12) Phytochemical Test to Screen of Phenolic Anthraquinone, Alkaloids, Steroids, Terpenoid, flavonoid Compounds of Aerial Part of *Salvia reuterana*, H. Farmonbar, **B. Mahdavi**, 5th National Congress on Medicinal Plants, Isfahan, Iran, **2016**.
- 13) Synthesis of triacetoxybenzoic acid and triacetoxybenzoyl chloride from gallic acid and study on comparison of their antibacterial activity, S. M. Hosseyni Tabar, **B. Mahdavi**, E. Rezaei-Seresh, 24th Iranian Seminar of Organic Chemistry, **2016**.
- 14) Green Synthesis of Silver Nanoparticles Using Aqueous Extract of *Salvia Limbata*, S. Ghezi, **B. Mahdavi**, B. Maleki, 24th Iranian Seminar of Organic Chemistry, Tabriz, Iran, **2016**.
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- 16) Screening of Phytochemical Contents of *Ephedra intermedia* S. Ebrahimi, **B. Mahdavi**, S. Ghezi, 6th National Congress on Medicinal Plants, Tehran, Iran, **2017**.
- 17) Antimicrobial Activity of Methanolic Extract of *Ephedra intermedia* S. Ebrahimi, **B. Mahdavi**, S. Ghezi, 6th National Congress on Medicinal Plants, Tehran, Iran, **2017**.
- 18) Antimicrobial Activity of *Artemisia annua* Extracts, M. Nasrollah Zadeh, **B. Mahdavi**, S. M. Hosseyni-Tabar, N. Akbari, 6th National Congress on Medicinal Plants, Tehran, Iran, **2017**.
- 19) Determination of Antimicrobial of methanolic Extract of *Ferula latisecta* Z. Sharafi-Sirzar, **B. Mahdavi**, E. Rezaei-Seresht, 6th National Congress on Medicinal Plants, Tehran, Iran, **2017**.
- 20) Phytochemical Content of *Ferula latisecta* Z. Sharafi-Sirzar, **B. Mahdavi**, E. Rezaei-Seresht, 6th National Congress on Medicinal Plants, Tehran, Iran, **2017**.
- 21) Synthesis and Antibacterial activity evaluation of two 2-Aminothiophene derivatives, **B. Mahdavi**, S. Ghalenovi, E. Rezaei-Seresht, S. M. Hosseini-Tabar, 20th Iranian Chemistry Congress, Mashhad, Iran, **2018**
- 22) Antibacterial Activity of ethanolic and hexane extract of *Artemisia annua*, Malvandi F. Z., **B. Mahdavi**, 15th Iranian National Congress of Biochemistry & 6th International Congress of Biochemistry & Molecular Biology Isfahan- Iran, **2018**.
- 23) Green Synthesis of Manganese Nanoparticles Using Aqueous Extract of *Artemisia Annua*, S. Paydarfard, E. Rezaei-Seresh, 8th National Congress on Medicinal Plants, Tehran, Iran, **2019**.
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- 25) Phytochemical Contents of *Euphorbia granulate*, M. Qorbani, **B. Mahdavi**, M. Vaezi-Kakhki, 8th National Congress on Medicinal Plants, Tehran, Iran, **2019**.
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- 27) Density Functional Theory (DFT) Study on the Optical Properties of 4-bromo-3-chlorophenol and 4-chloro-3-iodophenol, R. Golestania, **B. Mahdavi**, A.A. Rahnama-Aliabad, 4th National Conference on Applied chemistry, Urumeieh, Iran, **2019**.

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- 29) Green synthesis of Cu nanoparticles using *Cyperus rotundus* aqueous extract and its catalytic activity in the Biginelli Reaction, E. Arghiyani, **B. Mahdavi**, E. Rezaei-Seresht. 21st ICS International Chemistry Congress, Tabriz, Iran, **2022**.
- 30) *Cyperus rotundus* aqueous extract mediates for green synthesis of Ag nanoparticles. E. Arghiyani, **B. Mahdavi**, E. Rezaei-Seresht. 21st ICS International Chemistry Congress, Tabriz, Iran, **2022**.