



I. Personal

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II. EDUCATION

- | | |
|-------------------------------------|--|
| Ph. D. Chemical Engineering
2003 | Noshirvani University of Technology, Babol, Iran |
| M. Sc. Chemical Engineering
2006 | Noshirvani University of Technology, Babol, Iran |
| B. Sc. Chemical Engineering
2011 | Noshirvani University of Technology, Babol, Iran |

III. COURSES TAUGHT

Fundamental of Chemical Engineering, Thermodynamics, Heat Transfer, Separation Process, Environmental Engineering, Separation Process in Biological Systems, Industrial Microbiology

IV. PUBLICATIONS

- 1- M. Khavarpour, F. Tabandeh, M. Jahanshahi, M. Khodabandeh, and H. Ahmadi Danesh, ATPS as an Efficient Method for Separation of Bionanoparticles: Investigation and Optimization of Partition Behavior of pDNA, *Chemical and Biochemical Engineering Quarterly*, 23 (3) 351–357, 2009.
- 2- M. Jahanshahi, A. A. Ghoreishi, E. Vasheghani-F, M. Khavarpour, A. Abedijaber, COMPARATIVE STUDY OF HYDRODYNAMI BEHAVIOR OF LIQUID EXPANDED BED ADSORPTION: MATHEMATICAL AND SHORT-CUT METHODS, *Brazilian journal of chemical engineering*, Vol. 26, No. 02, pp. 299 - 306, April - June, 2009.
- 3- Maryam Khavarpour, Ghasem D. Najafpour, Ali-Asghar Ghoreyshi, Mohsen Jahanshahi, Bijan Bambai, Enhanced Fe^{+2} oxidation by mixed culture originated from hot spring: Application of response surface method, *African Journal of Biotechnology*, Vol. 10(19), pp. 3769-3783, May, 2011.
- 4- Maryam Khavarpour, Ghasem D. Najafpour, Ali-Asghar Ghoreyshi, Mohsen Jahanshahi, Bijan Bambai, Biotransformation of natural gas: growth kinetic evaluation, *Middle-East Journal of Scientific Research*, 7 (1): 22-29, 2011.
- 5- Seyed Mohammad Vahdat, Samad Khaksar, Maryam Khavarpour, Oxalic acid as a simple and efficient organocatalyst for three-component synthesis of α -amino nitriles, *Chinese Chemical Letters*, 22, 2011, 543-546.

6- Arash Mollahosseini, Ahmad Rahimpour, Mohsen Jahamshahi, Majid Peyravi, Maryam Khavarpour, The effect of silver nanoparticle size on performance and antibacterially of polysulfone ultrafiltration membrane, *Desalination*, 306 (2012) 41–50, 2012.

7-Tahere Taghizade Firozjaee, Ghasem D. Najafpour, Ali Asgari, Maryam Khavarpour, Biological Treatment of Phenolic Wastewater in an Anaerobic Continuous Stirred Tank Reactor (*Chemical Industry & Chemical Engineering Quarterly*, 19 (2) 173-179, 2013.

8- Cu(II) Schiff Base as Catalyst in the Synthesis of 1,8-Dioxodecahydro acridine, *Combinatorial Chemistry & High Throughput Screening*, Seyed Mohammad Vahdat, Hamid Reza Mardani, Hamid Golchoubian, Maryam Khavarpour, Saeed Baghery, Ziba Roshankouhi, 16, 2013, 2-6.

9- Synthesis of polyhydroquinoline derivatives via a four component Hantzsch condensation catalyzed by tin dioxide nanoparticles, *Chinese Journal of Catalysis*, Seyed Mohammad Vahdat, Fereshteh Chekin, Mehdi Hatami, Maryam Khavarpour, Saeed Baghery, Ziba Roshankouhi, 34, 2013, 758-763.

10-An Evaluation of Kinetic Parameters and Mass Transfer Coefficient in the Biodesulfurization of Natural Gas, *Energy Sources, Part A*, 2014.

11- Analysis of performance of the anion exchange and pseudo-affinity chromatography for intracellular enzyme purification (*Iranian journal of chemical engineering*) 2006.

12- Tahere Taghizade Firozjaee, Ghasem D.Najafpour, Maryam Khavarpour, Zeinab Bakhshi, Roya Pishgar and Nafise Mousavi, Phenol Biodegradation kinetics in an anaerobic batch reactor, *Iranica Journal of Energy & Environment*, 2 (1): 68-73, 2011

13-Melika Ebrahimpour, Mohsen Jahanshahi, Maryam Khavarpour, Purification of nanoparticle bioproduct in integrated process: Plasmid DNA separation and recovery, *Dynamic Biochemistry, Process Biotechnology and Molecular Biology*, 2011.

14-Anaerobic Oxidation of Hydrogen Sulfide in Batch Bioreactor Using Micro Organism Isolated from Ramsar Hot Spring, *Iranica Journal of Energy & Environment*, 2012.

15- A. Alemian, Gh. D. Najafpour, M. khavarpour, Growth Kinetic Study in Biological Removal of Hydrogen Sulfide from Natural Gas in Batch Bioreactor, *International Journal of Engineering, TRANSACTIONS C: Aspects* Vol. 29, No. 6, June 2016.

16- P. Ebrahimnejad, M. Khavarpour, S. Khalili, Survival of *Lactobacillus Acidophilus* as Probiotic Bacteria using Chitosan Nanoparticles (*International Journal of Engineering, IJE TRANSACTIONS A: Basics* Vol. 30, No. 4, 456-463, April 2017.

17- Maryam Khavarpour, Ghasem Najafpour Darzi, Seyedeh Fatemeh Seyedtabar, Seyed Mohammad Vahdat, Phenol removal from industrial wastewater using chitosan- immobilized *Pseudomonas putida*, *Journal of Applied Chemistry*, Vol. 9, No. 32, 2015 2015.

18- Seyed Mohammad Vahdat, Maryam Khavarpour, Farajolah Mohanazadeh, A Facile and Highly Efficient Three Component Synthesis of Pyran and Chromene Derivatives in the Presence of Nano SnO₂ as a catalyst , *Journal of Applied Chemistry*, Vol. 9, No. 32, 2015.

19- Hedayatifard, M., Kavousi, S.A., Khavarpour, M., Comparative study of chemical, sensory and microbial attributes of fried and cooked marinades of silver carp

(Hypophthalmichthys molitrix) during storage at 4°C, Journal of Veterinary Research. 71, 4: 437-446, 2016.

20- Masoud Hedayatifard, Neda Oroumi, Maryam Khavarpour, Comparative Measurement of Heavy Metals "Cd, Pb, Hg, Cu" in muscle, Liver and Skin tissue and Fatty acids profile of Persian Sturgeon *Acipenser persicus* in the some areas of Southern Caspian Sea, Journal of natural Environmental (Iranian Journal of Natural Resources), 70(3), 719-734, Autumn 2018.

21- Hedayatifard, M., Khavarpour, M., Oroumi, N., Evaluation of Relationship between Fatty acids and Heavy Metals Accumulation (Cd, Pb, Hg, Cu) in Fillet, Liver and Skin Tissues of Stellet Sturgeon (*Acipenser stellatus*) in Southwest and Southeast of Caspian Sea, Veterinary Researches & Biological Products, , No 116 pp: 212-224, 2016.

V. MAJOR CONFERENCES

1-Integrated expanded bed chromatography for macromolecular and nanoparticle purification: column diameter effect on mixing, The 5th National Biotechnology Congress of Iran, 2006.

2-M. Khavarpour, M. Jahanshahi, A.A. Ghoreyshi, The Effect of settled bed height and bed expansion on hydrodynamic behavior of expanded bed adsorption for protein purification, 10th Iranian Chemical Engineering Congress, Sistan & Balochistan University, 15-17 November, 2005.

3-Optimization of aqueous two phase system parameters for purification of nanobiotoparticles by using Taguchi method, International conference on nanobiotechnology (ICBN), Emirate, 2006.

4-Investigation of the partitioning behavior of plasmid DNA as a nanobiotoparticle in PEG300/salt aqueous two phase system, 11th national congress of chemical engineering, Iran, 2005.

5-Shahavi M.H., Najafpour G.D., Jahanshahi M., Khavarpour M., The effect of hydrodynamic on bed expansion for recovery of nanobio-products: investigation of column diameter on mixing, The 5th National Biotechnology Congress of Iran, 24-26 Nov, 2007.

6-Investigation of the effect of temperature in drying process on quality and quantity of extracted rice bran oil, 6th international conference of Chemical Engineering, Kish, Iran, 2010.

7-Khavarpour M, Najafpour G.D, Ghoreyshi A.A, Bambai B, Jahanshahi M, Mohammadi M, Growth and pH evaluation of *Acidithiobacillus thiooxidans* as sulfur-oxidizing bacteria in batch culture, The 6th National Biotechnology Congress of Iran, 13-15 Aug, 2009, Milad Tower Conference Hall, Tehran-Iran.

8-Purification of nanoparticle bioproduct in integrated process: Plasmide DNA separation and recovery, 2th International Conference of Nanotechnology, Emirate, 17-20 November 2008.

9-Isopropyle alcohol as an effective, powerful, 'green', solvent for the preparation of ketoconazol and thiazole derivatives, 12th International Conference on Chemistry and Environmental, Sweden, 14-17 June 2009.

10-Maryam Khavarpour, Ghasem D. Najafpour, Ali-Asghar Ghoreyshi, Mohsen Jahanshahi, Bijan Bambai, Oxidation of reduced sulfur compounds in a batch culture of *Thiobacillus Thioparus*, International Conference on Environment 2010.

11-Ali Alemian, Ghasem D. Najafpour, Ali-Asghar Ghoreyshi, Mohsen Jahanshahi, Maryam khavarpour, Growth Kinetic Survey in Biodesulfurization of Natural Gas, The 7th International Chemical Engineering Congress & Exhibition (ICHEC 2011), Kish, Iran, 21-24 November, 2011.

12-Phenol Biodegradation in Olive Oil Mill Wastewater by Chitosan-Immobilized Pseudomonas Putida, The 14th Iranian National Chemical Engineering Congress (ICHEC 2012), Tehran, Iran, 16-18 October, 2012.

13-S. M. Vahdat, L. Ma'mani, s. khaksar, M. Khavarpour, Synthesis of Silver Nanoparticle Embedded on Hydroxyapatite Encapsulated superparamagnetic iron oxid via sonochemistry as a promising antibacterial biomaterial, 4th International Conference on Nanostructures (ICNS4), 12-14, Kish Island, I.R. Iran. March 2012.

14-Ag-SiO₂ as a novel catalyst for the synthesis of Methyl-1,8- dioxodecahydroacridine derivatived via hantzsch reaction, International Nano Conference, (Nanosafety, Environmental effects, Risk assessment), Turkey, 2012.

15-An efficient procedure for the synthesis of 9-aryl-10-phenyl-3,4,6,7,9,10-hexahydroacridine-1,8(2H,5H)-dione derivatives using Ag nanoparticles as catalyst, International Nano Conference, Nanoparticle, Turkey, 2012.

16-Nano Tin Oxide: A highly efficient and reusable catalyst for the one-pot synthesis of polyhydroquinoline derivatives via Hantzsch condensation, International Nano Conference, Nanosafety, Environmental effects, Risk assessment, Turkey, 2012.

17-Study of structure and ¹H and ¹³C NMR chemical shifts of Methadone, Congress on Detection and Analysis of Illicit Drugs, 12-13 June 2012.

18- Evaluation of reological and sensory characteristics of mayonnaise formulated with sesame oil (4th national congress on medical plants) 2015.

19-Evaluation of the shelf life of mushroom using edible coating based on aloe vera and xanthan (4th national congress on medical plants) 2015.

20-Assessment of quality and organoleptic attributes of dressing salad produced from olive paste and basil seed gum (4th national congress on medical plants) 2015.

21-Malachite Green Adsorption from Aqueous Solution onto Nanozeolite: Isotherms and Kinetic Study (International Conference on Chemical, Environmental and Biological Sciences) (CEBS-2015), Dubai.

22-Antibacterial Activity of Lavander Essential oils in Amol Region Iran (5th national congress on medical plants) 2016.

23-Antibacterial Activity of Essential oils of Rosemary in Amol Region Iran (5th national congress on medical plants) 2016.

24-The quality properties of Ziziphus Jujube under osmotic drying (6th national congress on medical plants) 2017.

25- Maryam Khavarpour, Habibollah Younesi, Hamid Amirali, Synthesis of Functionalized SBA-16 Mesoporous Silica for Cr (VI) Removal from Aqueous Solution, 1st International and 9th National Biotechnology Congress of Islamic Republic of Iran, May 24-26, 2015- Shahid Beheshti University, Tehran, Iran.

VI. PROJECT

- 1- Production and characterization of lipase on agricultural waste using microorganism
- 2- Investigation of photochemistry, biology properties, antifungal and antibacterial effects of Lavandula Stoechas.

VII. RESEARCH INTEREST

Separation and purification of nanoparticles- Drug delivery systems- Adsorption process- Environmental Engineering- Food Industry- Medicinal plants