

Curriculum Vita



Personal Details:

First Name: Mehdi

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Educational Background

- PhD student on Food Engineering, Faculty of Agricultural Engineering, University of Tehran, Karaj, Iran (Sept. 2012)
- M.Sc. in the area of Food Science and Technology, Faculty of Agriculture, University of Tehran, Karaj, Iran (Feb. 2007)
- B.Sc. in Food Science (Specialized in Quality Control), Department of Food Science and Technology, Shahid Beheshti University of Medical Sciences, Tehran, Iran (Aug. 2004).

Membership:

	Post/Organization	Year
1	Assistant Professor, Department of Food Science and Technology, Shahid Beheshti University of Medical Sciences	2014-
2	Member of the board of association of packaging science and technology http://ispst-pack.ir	2015-2018
3	Editorial Board of Quarterly Journal of Packaging Technology and Science http://journals.ihu.ac.ir/index.php/packaging	2011-2018
4	Member of International Society of Food Engineering (ISFE)	2001-

Executive Experiences:

سال	Title	Year
1	Manager of NNFTRI's Incubator and Innovation Center	2016-2019

Courses:

	Course Title	Grade	Department
1	Advanced Food Packaging	PhD	Department of Food Science and Technology, Shahid Beheshti University of Medical Sciences
2	Advanced Food Engineering	MSc	Department of Food Science and Technology, Shahid Beheshti University of Medical Sciences
3	Food Engineering Principles	BSc	Department of Food Science and Technology, Shahid Beheshti University of Medical Sciences
4	Packaging Industry	BSc	Department of Food Science and Technology, Shahid Beheshti University of Medical Sciences
5	Food Plant Design	BSc	Department of Food Science and Technology, Shahid Beheshti University of Medical Sciences

Researches

M.Sc. Thesis: *Investigation on the interactions between packaging material (Polyethylene Terephthalate bottles) and yogurt drink during storage time and its effect on product shelf life*

PhD Thesis:

Experimental studies and modeling of the behaviour of nano particles in the packaging polymer matrix

Publications (Papers):

1	Zabihzadeh Khajavi, M., Ahmadi, S., Abedi, A.-S., Mohammadi, R., Farhoodi, M. , 2019, A model study on the migration of Irganox 1010 from low density polyethylene into a fatty food simulant as a function of incorporated spherical and plate-like nanoparticles, <i>Food Packaging and Shelf Life</i> , 100333	ISI
2	Zabihzadeh Khajavi, M., Mohammadi, R., Ahmadi, S., Farhoodi, M. , Yousefi, M., 2019, Strategies for controlling release of plastic compounds into foodstuffs based on application of nanoparticles and its potential health issues, <i>Trends in Food Science and Technology</i> , 90, pp. 1-12	ISI
3	Zabihzadeh Khajavi, M., Mohammadi, R., Ahmadi, S., Farhoodi, M. , Abedi, A.-S., 2019, Evaluating the potential of nanoparticles for controlling zinc stearate release from low-density polyethylene into food simulants, <i>Packaging Technology and Science</i> , 32(4), pp. 175-183	ISI
4	Hossein Habibi, Abdorreza Mohammadi, Mehdi Farhoodi , Sahar Jazaeri, 2018, Application and Optimization of Microwave-Assisted Extraction and Dispersive Liquid-Liquid Microextraction Followed by High-Performance Liquid Chromatography for the Determination of Oleuropein and Hydroxytyrosol in Olive Pomace, <i>Food Analytical Methods</i>	ISI
5	Gisoo Maleki, Naser Sedaghat, Ernst J. Woltering, Mehdi Farhoodi , Mohebbat Mohebbi, 2018, Chitosan-limonene coating in combination with modified atmosphere packaging preserve postharvest quality of cucumber during storage, <i>Journal of Food Measurement and Characterization</i> , https://doi.org/10.1007/s11694-018-9776-6	ISI
6	Zohreh Honarvar, Mehdi Farhoodi , Mohammad Reza Khani, Abdorreza Mohammadi, Babak Shokri, Ruhollah Ferdowsi, Saeedeh Shojaee-Aliabadi, 2017, Application of cold plasma to develop	ISI

	carboxymethyl cellulose-coated polypropylene films containing essential oil, <i>Carbohydrate Polymers</i> , Vol 15, No. 176, 1-10. DOI: 10.1016/j.carbpol.2017.08.054	
7	Baghdadi F, Aminifar M, Farhoodi M , Shojaee-Aliabadi S. 2017 , Study of macromolecular interactions in low-fat brined cheese modified with Zedu gum, <i>International Journal of Dairy Technology</i> , DOI: doi: 10.1111/1471-0307.12476	ISI
8	Baghdadi F, Aminifar M, Farhoodi M , Shojaee-Aliabadi S. 2018 , Changes in the Structure of Brined Cheese Modified with Basil Seed Gum based on Protein-polysaccharide Interactions" <i>Journal of Agricultural Science and Technology</i>	ISI
9	Rahmani, Bahareh, Hedayat Hosseini, Mohammadreza Khani, Mehdi Farhoodi , et al., 2017 , "Development and characterisation of chitosan or alginate-coated low density polyethylene films containing Satureja hortensis extract. <i>International Journal of Biological Macromolecules</i> .	ISI
10	Neda Mollakhalili Meybodi, Mohammad Amin Mohammadifar, Mehdi Farhoodi , Jacob Lercke Skytte, Khadije Abdolmaleki, 2016 , Physical stability of oil in water emulsions in the presence of gamma irradiated gum tragacanth, <i>Journal of Dispersion Science and Technology</i> , Vol. 38, No. 6, 909-916, DOI: 10.1080/01932691.2016.1215250	ISI
11	Mehdi Farhoodi , Mohammad Amin Mohammadifar, Seyed Mohammad Ali Mousavi, Rahmat Sotudeh-Gharebagh, Zahra Emam-Djomeh, 2016 , MIGRATION KINETICS OF ETHYLENE GLYCOL MONOMER FROM PET BOTTLES INTO ACIDIC FOOD SIMULANT: EFFECTS OF NANOPARTICLE PRESENCE AND MATRIX MORPHOLOGY, Accepted in <i>Journal of Food Process Engineering</i> , doi: 10.1111/jfpe.12383	ISI
12	Mehdi Farhoodi , (2015). Nanocomposite Materials for Food Packaging Applications: Characterization and Safety Evaluation. <i>Food Engineering Reviews</i> , Vol. 8, No. 1, pp. 35-51. doi: 10.1007/s12393-015-9114-2 http://link.springer.com/article/10.1007/s12393-015-9114-2	ISI
13	Mehdi Farhoodi , Seyed Mohammad Ali Mousavi, Rahmat Sotudeh-Gharebagh, Zahra Emam-Djomeh, Abdolrasul Oromiehie, 2013 , Effect of Spherical and Platelet-like Nanoparticles on Physical and Mechanical Properties of Polyethylene Terephthalate, <i>Journal of Thermoplastic Composite Materials</i> , Vol. 27, No. 8, 1127-1138	ISI
14	Mehdi Farhoodi , Seyed Mohammad Ali Mousavi, Rahmat Sotudeh-Gharebagh, Zahra Emam-Djomeh, Abdolrasul Oromiehie, 2014 , Migration of Aluminium and Silicon from PET/Clay Nanocomposite Bottles into Acidic Food Simulant, <i>Packaging Technology and Science</i> , Vol. 27, No. 2, pp. 161-168.	ISI
15	Mehdi Farhoodi , Zahra Emam-Djomeh, Amir Falah, Saman Sabetghadam, Mina Nemati, 2013 , Effect of menthol absorption by packaging material on the quality of yogurt drink during storage time, <i>Journal of Agricultural Science and Technology</i> , Vol. 15, pp. 1373-1380.	ISI
16	Amir Fallah, Mehdi Farhoodi , Vahideh Moradi, 2013 , An Assessment on Aflatoxin Control in Pistachio Processing Units from Raw Material Reception to Packaging Based on ISO22000:2005 Model, <i>Journal of Food Safety</i> , Vol. 33, pp. 379-386.	ISI
17	Mehdi Farhoodi , Saeed Dadashi, Seyed Mohammad Ali Mousavi, Rahmat Sotudeh-Gharebagh, Zahra Emam-Djomeh, Abdolrasul Oromiehie, Farkhondeh Hemmati, 2012 ,	ISI

	Influence of TiO ₂ Nanoparticle Filler on the Properties of PET and PLA Nanocomposites, <i>Polymer(Korea)</i> , Vol. 36, No. 6, pp. 745-755.	
18	Mehdi Farhoodi , Seyed Mohammad Ali Mousavi, Rahmat Sotudeh-Gharebagh, Zahra Emam-Djomeh, Abdolrasul Oromiehie, Hossein Mansour, 2012 , A Study on Physical Ageing of Semicrystalline Polyethylene Terephthalate below the Glass Transition Point, <i>Journal of Applied Research and Technology</i> , Vol. 10, No. 5, pp. 698-702.	ISI
19	Mehdi Farhoodi , Maryam Salami, Zahra Emam-Djomeh, S .M. A. Mousavi, Karamatollah Rezaei, 2011 . Measurement of flavor absorption from soft drinks into PET bottle by headspace solid phase microextraction-gas chromatography, <i>International Journal of Food Engineering</i> , 7 (4).	ISI
20	Mehdi Farhoodi , Zahra Emam-Djomeh, Abdolrasul Oromiehie, Mohammad Reza Ehsani, 2009 . Influence of menthol absorption on the mechanical properties of PET bottles, <i>Iranian Polymer Journal</i> , 18(3), 227-232.	ISI
21	Mehdi Farhoodi , Zahra Emam-Djomeh, Mohammad Reza Ehsani, Abdolrasul Oromiehie, 2008 . Migration of model contaminants (ethylene glycol, DEHA and DEHP) from PET bottles into Iranian yogurt drinks, <i>e-Polymers</i> , 37, 1-9.	ISI
22	Mehdi Farhoodi , Zahra Emam-Djomeh, Mohammad Reza Ehsani, Abdolrasul Oromiehie, 2008 . Effect of environmental conditions on the migration of Di (2-ethylhexyl) Phthalate from PET bottles into yogurt drinks: influence of time, temperature and food stimulant, <i>The Arabian journal for science and engineering</i> , 33 (2B), 279-287.	ISI
23	Farhoodi, M. , Mousavi, S.M., Sotudeh-Gharebagh, R., Emam-Djomeh, Z., Oromiehie, A. 2013 . Migration of silicon from nanocomposite packaging materials into acidic food simulant, <i>Advanced Materials Research</i> , Volume 622, 2013, Pages 873-877 (Conference Paper)	EI-Indexed
24	Naderi, R., Rad, S.J., Yaraghi, A., Farhoodi, M. , Nemati, M. 2013 . Detection of silver nanoparticles internalization into petunia, petunia hybrida, isolated protoplasts. <i>Advanced Materials Research</i> , Volume 622, 2013, Pages 878-882	EI-Indexed

Presentations:

	Presenter(s)	Paper Title	
1	Mehdi Farhoodi, Seyed Mohammad Mousavi, Rahmat Sotudeh-Gharebagh, Zahra Emam-Djomeh, Abdolrasul Oromiehie	Effect of Different Nanofillers on Physical Properties of Polyethylene Terephthalate, Proceedings of 5th International Congress on Nanoscience & Nanotechnology (ICNN2014) 22-24 October 2014, Tehran, Iran	Poster
2	Mehdi Farhoodi, Seyed Mohammad Mousavi, Rahmat Sotudeh-Gharebagh, Zahra Emam-Djomeh, Abdolrasul Oromiehie	Study on Morphology and Characterization of PET/Mica Nanocomposite, <i>1st International e-Conference on novel Food Processing (IECFP2013), Feb 26-27, 2013, Ferdowsi University of Mashhad, Iran</i>	Oral
3	Mehdi Farhoodi, Seyed Mohammad Mousavi, Rahmat Sotudeh-Gharebagh, Zahra Emam-Djomeh, Abdolrasul Oromiehie	Migration of Silicon from Nanocomposite Packaging Materials into Acidic Food Simulant, <i>3rd International Conference on Nano Science and Technology (ICNST2012), 15-16 September, 2012, Beijing, China</i>	Oral
4	Mehdi Farhoodi, Seyed Mohammad Mousavi, Rahmat Sotudeh-Gharebagh, Zahra Emam-Djomeh, Abdolrasul Oromiehie	PET/TiO ₂ Nanocomposites for Food Packaging Applications, <i>5th International Symposium on Food Packaging - Scientific Developments supporting Safety and Innovation, 14-16 November 2012, Berlin, Germany</i>	Poster
5	Mehdi Farhoodi, Seyed Mohammad Mousavi, Rahmat Sotudeh-Gharebagh, Zahra Emam-Djomeh, Abdolrasul Oromiehie	Effect of different levels of nanoclays on barrier properties of poly (ethylene terephthalate) nanocomposites, <i>5th International Symposium on Food Packaging - Scientific Developments supporting Safety and Innovation, 14-16 November 2012, Berlin, Germany</i>	Poster
6	Mehdi Farhoodi, Seyed Mohammad Mousavi, Rahmat Sotudeh-Gharebagh, Zahra Emam-Djomeh, Abdolrasul Oromiehie	Novel PET/TiO ₂ nanocomposites for food packaging; Thermal and thermo-mechanical properties, <i>2011 EFFost Annual Meeting, 9-11 November, Technical University Berlin, Germany</i>	Poster
7	Mehdi Farhoodi, Seyed Mohammad Mousavi, Rahmat Sotudeh-Gharebagh, Zahra Emam-Djomeh, Abdolrasul Oromiehie	An Efficient Study on Crystallization Behavior of Poly (ethylene terephthalate)/TiO ₂ Nanocomposites, <i>New and Advanced Material International Congress (NAMIC2012), Islamic Azad University, Majlesi Branch, May 30-31, 2012, Isfahan, Iran</i>	Poster
8	M. Farhoodi, S. M. Mousavi, R. Sotudeh, Z. Emam-Djomeh, A. Oromiehie	A Study on Physical and Barrier Properties of PET/Clay Nanocomposites, <i>International Congress on Nanoscience & Nanotechnology (ICNN2012), 8–10 September 2012, Kashan, I. R. Iran.</i>	Poster
9	M. Farhoodi, Z. Emam-Djomeh, M.R. Ehsani, A. Oromiehie	Influence of menthol absorption on the physical properties of PET bottles, <i>8th International Seminar on Polymer Science and Technology, ISPST 2007, Tehran, Iran, 23-25 October, 2007.</i>	Oral
10	M. Farhoodi, Z. Emam-Djomeh, M.R. Ehsani, A. Oromiehie	Migration of selected contaminants (DEHA, DEHP nad ethylene glycol) from PET bottles into Iranian yogurt drink during storage time, <i>8th International Seminar on Polymer Science and Technology ISPST 2007, Tehran, Iran, 23-25 October, 2007.</i>	Poster
11	M. Farhoodi, Z. Emam-Djomeh, M.R. Ehsani, A. Oromiehie	Physical Ageing of Semicrystalline Polyethylene Terephthalate below the Glass Transition Point, <i>8th International Seminar on Polymer Science and Technology ISPST 2007, Tehran, Iran, 23-25 October, 2007.</i>	Poster
12	M. Farhoodi, Z. Emam-Djomeh, M.R. Ehsani, A. Oromiehie	Determination the migration of monomers from PET bottles into yogurt drink during storage time by GC Method, <i>8th International Symposium on Polyimides & High Performance Materials– STEPI 8, 2008, France.</i>	Poster

	Presenter(s)	Paper Title	
13	M. Farhoodi, Z. Emam-Djomeh, M.R. Ehsani, A. Oromiehie	Absorption of menthol from yogurt drink into PET bottle: Determination of diffusion coefficient of menthol, <i>European Congress of Chemical Engineering (ECCE-6), Copenhagen, 16-20 September 2007.</i>	Poster
14	M. Farhoodi, Z. Emam-Djomeh, M.R. Ehsani, A. Oromiehie	Effect of environmental conditions on the migration of DEHA, DEHP and ethylene glycol from PET bottles into yogurt drink, <i>European Congress of Chemical Engineering (ECCE-6), Copenhagen, 16-20 September 2007.</i>	Poster

Research projects:

	Title	Organizations	Year
1	Extraction and determination of flaxseed oil bodies properties as lipophilic bioactive compounds resource	Shahid Beheshti University of Medical Sciences	2017
2	Design and production of Self-heating beverage can	Shahid Beheshti University of Medical Sciences	2017-2019
3	Production and characterization of antimicrobial films based on chitosan coated polyethylene containing satureja hortensis essential oil to improve chicken breast meat shelf life during refrigeration storage	Shahid Beheshti University of Medical Sciences	2017-2018
4	Production of PET/Nanocomposite Bottles, Investigation on the migration of nanoparticles into food simulants	University of Tehran, Zam-zam Company	2010-2012
5	Migration of monomers and additives from PET bottles into yogurt drink	University of Tehran, Pegah Company	2007-2009

Thesis Supervised:

	Title	Grade	Year	University/Organization
1	Investigation of the use of mica and silica carriers of potassium permanganate in polyolefin elastomer film as an ethylene scavenger in fruits and vegetables	PhD	2019-	Shahid Beheshti University of Medical Sciences
2	Properties and performance of starch/LDPE nanocomposite films activated by date palm pit extracts/organoclay for lamb meat packaging	PhD	2015-2019	Shahid Beheshti University of Medical Sciences
3	Modelling MAP design and study the effect of chitosan coating enriched with limonene and O ₂ concentration on quality of cucumber cultivar <i>Royal</i> and determination its shelf life	PhD	2015-2018	Ferdowsi University of Mashhad

4	Combined effect of nano clay and nano silica on migration of packaging additives from polyethylene into fat stimulant	MSc	2016-2018	Shahid Beheshti University of Medical Sciences
5	Effect of carboxymethyl cellulose coated polypropylene films containing zataria multiflora and satureja hortensis essential oils on the shelf life of chicken meat stored at refrigeration temperature	MSc	2015-2017	Shahid Beheshti University of Medical Sciences
6	The effect of oxygen scavenger on survival of Lactobacillus acidophilus and Bifidobacterium bifidum in Feta cheese	MSc	2016-2018	Tehran University of Medical Sciences
7	The effect of β -glucan and chitosan based coatings on oxidative stability of peanuts and pistachio kernel	MSc	2015-2018	Shahid Beheshti University of Medical Sciences
8	Migration of chemical contaminants (DEHA, bisphenol A, 1-octene and Irganox 1330) from high density polyethylene (HDPE) bottle into fatty food simulant during storage	MSc	2015-2018	Shahid Beheshti University of Medical Sciences
9	Migration of bisphenolA from cans lacquer coating into food model solutions	MSc	2014-2017	Shahid Beheshti University of Medical Sciences
10	Study on effect of storage temperature and time and type of lacquer can packages on Aluminum migration into nonalcoholic beer and its sensory evaluation	MSc	2014-2016	Shahid Beheshti University of Medical Sciences

Research Interests:

- ✓ Food and Packaging Interactions
- ✓ Modeling on the migration of monomers and additives from packaging materials into food/food simulants
- ✓ Intelligent and Active Packaging
- ✓ Texture and Rheology of Food Products
- ✓ Nanotechnology in food and food packaging