

School of Nutrition Sciences and Food Technology Kermanshah University of Medical Sciences

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Personal Information

Place of birth: Kermanshah Marital Status: Married

Tertiary Education

• Ph.D Food Science and Technology Quality Control 2011-2016

MSc.
Food Science and Technology
Quality Control
2008-2011

- Shahid Beheshti University of Medical Sciences
- Shahid Beheshti University of Medical Sciences
- Shahid Beheshti University of Medical Sciences

BSc.
Food Science and Technology
Quality Control
2004-2008

Academic Responsibilities



Key Areas of Research Expertise

- Food packaging
- Functional Foods
- Food Safety

Skills

- Language
- Farsi- English
- HPLC, Mass Spectrometry, XRD, FTIR, DSC, SEM, TEM
- Software
 SPSS, Design Expert, Endnote, Microsoft Office

Articles

- Fallah M, Rouhi M, Soltani M, Mohammadifar MA, Bahrami R, Davachi SM, et al. Physico-mechanical, Antimicrobial, and Antioxidant Properties of Gelatin Edible Films Incorporated with Olibanum Essential Oil and Sodium Hexametaphosphate on the Rainbow Trout Fillet Under Refrigerated Conditions. Journal of Polymers and the Environment. 2021;29(7):2174-84.
- Heydari M, Rostami O, Mohammadi R, Banavi P, Farhoodi M, Sarlak Z, et al. Hydrodistillation ultrasoundassisted green extraction of essential oil from bitter orange peel wastes: Optimization for quantitative, phenolic, and antioxidant properties. Journal of Food Processing and Preservation. 2021:e15585.
- Khedri S, Sadeghi E, Rouhi M, Delshadian Z, Mortazavian AM, de Toledo Guimarães J, et al. Bioactive edible films: Development and characterization of gelatin edible films incorporated with casein phosphopeptides. LWT. 2021;138:110649.
- Moghadam MA, Mohammadi R, Sadeghi E, Mohammadifar MA, Nejatian M, Fallah M, et al. Preparation and characterization of poly (vinyl alcohol)/gum tragacanth/cellulose nanocomposite film. Journal of Applied Polymer Science. 2021;138(28):50672.
- Paimard G, Mohammadi R, Bahrami R, Khosravi- Darani K, Sarlak Z, Rouhi M. Detoxification of patulin from juice simulator and apple juice via cross-linked Se-chitosan/L-cysteine nanoparticles. LWT. 2021;143:111146.
- Razmjoo F, Sadeghi E, Rouhi M, Mohammadi R, Noroozi R, Safajoo S. Polyvinyl alcohol–Zedo gum edible film: Physical, mechanical and thermal properties. Journal of Applied Polymer Science. 2021;138(8):49875.
- Sarlak Z, Khosravi-Darani K, Rouhi M, Garavand F, Mohammadi R, Sobhiyeh MR. Bioremediation of organophosphorus pesticides in contaminated foodstuffs using probiotics. Food Control. 2021:108006.
- Zibaei R, Hasanvand S, Hashami Z, Roshandel Z, Rouhi M, de Toledo Guimarães J, et al. Applications of emerging botanical hydrocolloids for edible films: A review. Carbohydrate polymers. 2021;256:117554.
- Bahrami R, Zibaei R, Hashami Z, Hasanvand S, Garavand F, Rouhi M, et al. Modification and improvement of biodegradable packaging films by cold plasma; a critical review. Critical Reviews in Food Science and Nutrition. 2020:1-15.
- Banavi P, Sadeghi E, Garavand F, Heydari M, Rouhi M. Release behavior of metals from tin-lined copper cookware into food simulants during cooking and cold storage. Environmental Science and Pollution Research. 2020;27(31):38591-601.
- Fallah M, Rouhi M, Sadeghi E, Sarlak Z, Mohammadi R. Effects of Olibanum Essential Oil on Physicochemical, Structural, Antioxidant and Microbial Characteristics of Gelatin Edible Films. Iranian Journal of Nutrition Sciences & Food Technology. 2020;15(4):93-102.

- Noroozi R, Sadeghi E, Rouhi M, Safajoo S, Razmjoo F, Paimard G, et al. Fates of aflatoxin B1 from wheat flour to Iranian traditional cookies: Managing procedures to aflatoxin B1 reduction during traditional processing. Food Science & Nutrition. 2020;8(11):6014-22.
- Taghizadeh M, Aryan S, Rouhi M, Sobhiyeh MR, Askari F, Gholipourmalekabadi M, et al. Photo- crosslinked gelatin–polyvinyl alcohol composite films: UV–riboflavin treatment for improving functional properties. Journal of Food Processing and Preservation. 2020;44(7):e14550.
- Ahmadi E, Mohammadi R, Hasanvand S, Rouhi M, Mortazavian AM, Sarlak Z. Effects of Fermentative Factors on Biochemical, Microbiological and Sensory Characteristics of Probiotic Iranian Fermented Milk (Doogh). Current Nutrition & Food Science. 2019;15(1):40-7.
- Askari F, Sadeghi E, Mohammadi R, Rouhi M, Taghizadeh M, Hosein Shirgardoun M, et al. The physicochemical and structural properties of psyllium gum/modified starch composite edible film. Journal of Food Processing and Preservation. 2018;42(10):e13715.
- Kariminejad M, Sadeghi E, Rouhi M, Mohammadi R, Askari F, Taghizadeh M, et al. The effect of nano-SiO2 on the physicochemical and structural properties of gelatin- polyvinyl alcohol composite films. Journal of Food Process Engineering. 2018;41(6):e12817.
- Taghizadeh M, Mohammadifar MA, Sadeghi E, Rouhi M, Mohammadi R, Askari F, et al. Photosensitizer-induced cross-linking: A novel approach for improvement of physicochemical and structural properties of gelatin edible films. Food Research International. 2018;112:90-7.
- Sarlak Z, Garavand F, Mohammadi R, Hosseini M, Rouhi M. Development of an Optimal Formulation for Flavored Doogh-Based Soft Drink Using Response Surface Methodology and Evaluate the Resulting Powder. Journal of Food Technology and Nutrition. 2018;15(2):5-18.
- Delshadian Z, Mortazavian AM, Tabarzad M, Hosseini SM, Mohammadi R, Rouhi M, et al. Optimisation of experimental conditions for binding of divalent iron to bioactive casein phosphopeptides. International Journal of Food Science & Technology. 2018;53(3):784-93.
- Mohammadi R, Mohammadifar MA, Rouhi M, Kariminejad M, Mortazavian AM, Sadeghi E, et al. Physicomechanical and structural properties of eggshell membrane gelatin-chitosan blend edible films. International journal of biological macromolecules. 2018;107:406-12.
- Ebrahimi B, Mohammadi R, Rouhi M, Mortazavian AM, Shojaee-Aliabadi S, Koushki MR. Survival of probiotic bacteria in carboxymethyl cellulose-based edible film and assessment of quality parameters. LWT. 2018;87:54-60.
- Garavand F, Rouhi M, Razavi SH, Cacciotti I, Mohammadi R. Improving the integrity of natural biopolymer films used in food packaging by crosslinking approach: A review. International Journal of Biological Macromolecules. 2017;104:687-707.
- Rouhi M, Razavi SH, Mousavi SM. Optimization of crosslinked poly (vinyl alcohol) nanocomposite films for mechanical properties. Materials Science and Engineering: C. 2017;71:1052-63.
- Sarlak Z, Rouhi M, Mohammadi R, Khaksar R, Mortazavian AM, Sohrabvandi S, et al. Probiotic biological strategies to decontaminate aflatoxin M1 in a traditional Iranian fermented milk drink (Doogh). Food control. 2017;71:152-9.
- Mohammadi R, Mohammadifar MA, Mortazavian AM, Rouhi M, Ghasemi JB, Delshadian Z. Extraction optimization of pepsin-soluble collagen from eggshell membrane by response surface methodology (RSM). Food chemistry. 2016;190:186-93.
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- Rouhi M, Mohammadi R, Mortazavian A, Sarlak Z. Combined effects of replacement of sucrose with d-tagatose and addition of different probiotic strains on quality characteristics of chocolate milk. Dairy science & technology. 2015;95(2):115-33.

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- Rouhi M, Mohammadi R, Sarlak Z, Taslimi A, Zabihzadeh M, Mortazavian A. Study on the biochemical, microbiological and sensory characteristics of synbiotic chocolate milk. Iranian Journal of Nutrition Sciences & Food Technology. 2015;10(2):47-58.
- Ahmadi E, Rouhi M, Mortazavian A, Khosravi-Darani K, Shandnush M. Viability of two Iranian isolated species of bifidobacteria in Doogh. Iranian Journal of Nutrition Sciences & Food Technology. 2013;7(5):1-10.
- Delshadian Z, Mohammadi R, Rouhi M, Homayouni Rad A, Mortazavian A. Effect of using stevia sweetener on peroxide value of chocolate milk. Iranian Journal of Nutrition Sciences & Food Technology. 2013;7(5):107-13.
- Ebrahimi S, Karam A, Rouhi M, Mohammadi R, Delshadian Z, Mortazavian A, et al. The role of probiotics in the treatment and prevention of infections diarrhea in children. Iranian Journal of Nutrition Sciences & Food Technology. 2013;7(4):11-24.
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- Mohammadi R, Rouhi M, Mortazavian A, Soleimani M, Sabouri S. Effects of cow's milk to soy milk proportion and the type of commercial culture composition on biochemical, microbiological and sensory characteristics of probiotic soy-Doogh. Iranian Journal of Nutrition Sciences & Food Technology. 2013;7(5).
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- Mohammadi R, Rouhi M, Mortazavian A. Effects of music waves on fermentation characteristics and viability of starter cultures in probiotic yogurt. Milchwissenschaft-Milk Science International. 2011;66(2):194.

Research Projects	
• 2021	 Investigation of metals migration from zinc pots to food simulators during thermal process and refrigerated storage Reduction of organophosphorus chlorpyrifos, diazinon and malathion toxins during production and storage of non-alcoholic beer
• 2020	 Internal evaluation of food Science & technology department of Kermanshah University of medical sciences in 2020 Investigation of migration of chemical pollutants from recycled and Non-recycled plastic containers to different food products under simulated storage conditions of each product Risk assessment and determination of compounds in raw, cooked and grilled maize in Kermanshah in 2020 and 2021
	 Effect of lactic acid bacteria on the organophosphorus pesticides in reconstituted skim milk Evaluation of Navid electronic learning (E-learning) system at Kermanshah Unversity of Medical sciences in1399 Effect of selenium nanoparticles and vitamin E on the physicochemical, structural and microbiological properties of Polylactic Acid films Authentication of red meat hamburger brands in Iran for chicken meat fraud using Real-time PCR based on TaqMan assay Optimization of patulin removal by seleno-chitosan-phytic acid complex in juice simulation aqueus Investigation of production of intelligent food packaging based on edible film of polyvinyl alcohol containing curcumin

• •	 Study of colored food film based on polyvinyl alcohol containing betanine in smart food packaging Study of effect of chlorophyllin on detoxification of aflatoxin B1 Investigation of heavy metals, aflatoxin B1, synthetic dyes, microplastics, trans fatty acids and microorganisms in rice bread produced in Kermanshah province in the year 2020-2021
• 2019 • • • •	 Effect of hydroalcoholic extract of Quercus branti on the physicochemical, structural and microbiological properties of gelatin edible film and influence film on refrigerate storage Beef meat Effect of selenium-enriched yeast on detoxification of patulin in simulated juice condition Investigation of the complex of cythosan-selenite cystine on the detoxification of patulin in a solution with the same pH as juice Study on detoxification level of aflatoxin M1 by aqueous extract of Ferulago angulate and Origanum vulgare in stirred Youghurt Optimization of biosynthesis of stabilized silver nanoparticles using bitter orange peel by-products Effects of adding phytic acid in the presence of UV light on the structural, physico-chemical and antioxidant properties of edible gelatin film Investigation of physiochemical and antimicrobial properties of gelatin nanocomposite edible film with essential oil of Cyperus rotundus root and its application in packaging of beef meat
• 2018 • •	Effects of Pisticia Atlantica Essential oil on quality properties of gelatin-based films with Nano-chitosan and its potential application for Ostrich meat Investigation of ochratoxin A detoxification by cellulose film with immobilized nano-chitin Effect of pH and heat processing on migration of some heavy metals from copper pot to the food simulants The study of qualitative properties of essential oil extracted from bitter orange peel wastes Investigation of the physico-chemical and structural properties of edible gelatin film extracted from fish skin and chitosan
• 2017 • •	Effect of physicochemical and structural properties of polyvinyl alcohol-farsi gum blend film Study of physicochemical and structural characteristics of the Polyvinyl alcohol - Gum Tragacanth composite film reinforced with Cellulose nanofibers Modelling of the effects of glycerol, nanocrystalline cellulose and boric acid concentration on crosslinking and applicable properties of edible film based on poly(vinyl alcohol) Study of colored edible biofilm production based on poly(vinyl alcohol) and canthaxanthin using response surface methodology Development of an Optimal Formulation for Flavored Doogh-Based Soft Drink Using Response Surface Methodology and Evaluate the Resulting Powder
Books	

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Presentations & Pu	blished Abstracts
• 2018	 Effect of live or heat-killed L. acidophilus on free aflatoxin M1 in Doogh / Iran's 19th International Congress of Microbiology / Tehran / Zahra Sarlak, Milad Rouhi*
• 2017	 Effect of Satureja edmondi essential oil on the growth of Staphylococcus aureus in a food model / 18th International & Iranian Congress of Microbiology / Tehran / Shirin Moradi, Ehsan Sadeghi, Reza Mohammadi, Mohsen Ghasemi, Milad Rouhi, Sara Hasanvand Probiotics roles in colon cancer prevention / 18th International & Iranian Congress of Microbiology / Tehran / Sara Hasanvand, Reza Mohammadi, Shirin Moradi, Ehsan Sadeghi, Milad Rouhi
• 2012	 Effect of cold chain interruption on mirobiological and biochemical characteristics of probiotic yoghurt during storage / IDF-World Dairy Summit 2012 / Cape Town / Milad Rouhi, Reza Mohmmadi, Sara Sohrabvandi*, Amir Mohammad Mortazavian and Zahra Sarlak Probiotic fermented milk produced with different skim milk powder contents, fermentation temperatures and final pH / IDF-World Dairy Summit 2012 / Cape Town / Seyedeh Gelareh Shafiei, Sara Sohrabvandi*, Amir Mohammad Mortazavian, Milad Rouhi and Reza Mohmmadi Production of Doogh (an Iranian yoghurt drink) inoculated with Iranian probiotic lactobacillus species / IDF-World Dairy Summit 2012 / Cape Town / Reza Mohmmadi*, Milad Rouhi, Amir Mohammad Mortazavian, Zahra Sarlak and Seyedeh Gelareh Shafiei Production of synbiotic chocolate milk with D-tagatose as a low-calorie sugar replacer / IDF-World Dairy Summit 2012 / Cape Town / Milad Rouhi, Amir Mohammad Mortazavian, Aghdas Taslimi, Reza Mohmmadi* and Zahra Sarlak Viability of Iranian and imported bifidobacterium species in probiotic Doogh (an Iranian yoghurt drink) / IDF-World Dairy Summit 2012 / Cape Town / Reza Mohmmadi, Milad Rouhi, Amir Mohammad Mortazavian*, Sara Sohrabvandi and Zahra Sarlak Effects of the type of commercial starter culture composition and partial or total replacement of cow's milk with soy milk on biochemical and microbiological characteristics of probiotic fruity soy yogurt / 13th Iranian and the second international congress of microbiology / Ardabil / Reza Mohammadi, Abolfazl Roozitalab, Milad Rouhi*, Amir Mohammad Mortazavian, Zahra Sarlak Effects of partial or total replacement of cow's milk with soy milk and the type of commercial starter culture composition on biochemical and microbiological characteristics of probiotic soy-Doogh / 13th Iranian and the second international congress of microbiology / Ardabil / Reza Mohammadi, Milad Rouhi*, Zahra Sarlak, Amir Mohammad Mortazavian. A

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• 2011	 Effects of incubation temperatures on biochemical and microbiological characteristics in Doogh inoculated with Iranian probiotic lactobacillus species during fermentation and refrigerated storage / 13th Iranian and the second international congress of microbiology / Ardabil / Milad Rouhi, Reza Mohammadi*, Zahra Sarlak, Seyedeh Gelareh Shafiei, Elahe Ahmadi Biochemical and microbiological studies of different probiotic yogurts stored at different temperatures / 13th Iranian and the second international congress of microbiology / Ardabil / Milad Rouhi, Reza Mohammadi*, Seyedeh Gelareh Shafiei, Amir Mohammad Mortazavian, Kheyrollah Khosravi Katuli The sheep and goat dairy sectors in Iran / IDF International Symposium on 	
	Sheep, Goat and other non-Cow Milk 2011 / Athens / M. Rouhi, A.M. Mortazavian*, M. Amjadi Golpayegani and H.R. Sayehvand	
Editorial Board and Reviewing Activities		
• Reviewer	 Journal of Food Processing and Preservation Food Hydrocolloids Environmental Research Food Bioscience Food Chemistry Health Scope IJCCE Iranian Journal of Fisheries Sciences Iranian Journal of Pediatrics Journal of Applied Polymer Science LWT 	

Professional Memberships

Awards & Grants