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Personal Information

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Education

- Ph.D in Organic Chemistry, Ferdowsi university of Mashhah, Mashhad, Iran
- M.Sc. in Organic Chemistry, Ferdowsi university of Mashhah, Mashhad, Iran
- B.Sc. in Chemistry, Tabriz university, Tabriz, Iran

Employment

- Academic staff member of The Food Nanotechnology, Research Institute of Food Science and Technology

Research Interests

- Natural products, Micro and nanoscale drug delivery systems, Nutraceuticals

Research Projects

- Co-encapsulation of alpha-Tocopherol and Allicin by Nanoliposomes and Niosomes
- Fabrication of biopolymeric nanocarriers for improvement of solubility and bioavailability of curcumin
- Design and manufacture of nano spray drier based on piezoelectric oscillator
- Orange juice enriched with omega-3 in the liposome system
- Preparation of proniosome containing Green tea extract to enhance catechins Stability
- Development of Gum arabic-Albumin Coaservate for Encapsulation and Controlled Release of Vitamin D
- Co-encapsulation of Cardamon and Lemon essential oils as tea flavor
- Preparation of Saffron Dry Extract by Encapsulation
- Standard oleoresins from spices

Peer Reviewed Articles

- S. Salehi, M. Sadegh Nourbakhsh, M. Yousefpour, Gh. Rajabzadeh & S. Sahab-Negah. Co-encapsulation of Curcumin and Boswellic Acids in Chitosan-Coated Niosome: An In-vitro Digestion Study, Journal of Microencapsulation (Accepted Jan. 2022).
- S. Salehi, M. Sadegh Nourbakhsh, M. Yousefpour, Gh. Rajabzadeh & S. Sahab-Negah. Chitosan-coated niosome as an efficient curcumin carrier to cross the blood-brain barrier: an animal study. Journal of Liposome research <https://doi.org/10.1080/08982104.2021.2019763>.
- M. Moharreri, R. Vakili, E. Oskoueian & Gh. Rajabzadeh. Phytobiotic role of essential oil-loaded microcapsules in improving the health parameters in Clostridium perfringens-infected broiler chickens. Italian Journal of Animal Science, 20(1) (2021), 2075-2085, DOI:

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- M Moharreri, R.Vakili, E. Oskoueian, Gh. Rajabzadeh, Evaluation of Microencapsulation Essential Oils in Broilers challenged with salmonella enteritidis. A Focus on the body's antioxidant status, Gut Microbiology and Morphology. Archives of Razi Institute, DOI:10.22092/ARI.2021.354334.1634
- M. Moharreri, R. vakili, E. Oskoueian, and Gh. Rajabzadeh. Effect of Microencapsulated Essential Oils on Growth Performance and Biomarkers of Inflammation in Broiler Chickens Challenged with salmonella enteritidis. Journal of the Saudi Society of Agricultural Sciences, <https://doi.org/10.1016/j.jssas.2021.10.012>
- S. Sahab Negah, F. Ariakia, M. Jalili-Nik, S. Salehi, A. R. Afshari, F. Samini, Gh. Rajabzadeh, A. Gorji, Curcumin Loaded in Niosomal Nanoparticles Improved the Anti-tumor Effects of Free Curcumin on Glioblastoma Stem-like Cells: an In Vitro Study. Molecular Neurobiology (2020) 57:3391–3411, <https://doi.org/10.1007/s12035-020-01922-5>.
- A. Zamani Ghaleshahi, Gh. Rajabzadeh, and H. Ezzatpanah. Influence of Sodium Alginate and Genipin on Stability of Chitosome Containing Perilla Oil in Model and Real Drink. Eur. J. Lipid Sci. Technol. 122(2020), 1900358 DOI: 10.1002/ejlt.201900358.
- A. Zamani Ghaleshahi, H. Ezzatpanah. Gh. Rajabzadeh, M. Ghavam. Comparison and analysis characteristics of flax, perilla and basil seed oils cultivated in Iran. J Food Sci. Technol. 57(4) (2020):1258–1268, <https://doi.org/10.1016/j.indcrop.2019.111978>.
- M. Sarfarazia, S. M. Jafaria, Gh. Rajabzadeh, Ch. M. Galanakis. Evaluation of microwave-assisted extraction technology for separation of bioactive components of saffron (Crocus sativus L.) Industrial Crops & Products 145 (2020) 111978. <https://doi.org/10.1016/j.indcrop.2019.111978>.
- A. Zamani Ghaleshahi, Gh. Rajabzadeh. The influence of sodium alginate and genipin on physico-chemical properties and stability of WPI coated liposomes. Food Research International 130 (2020) 108966, <https://doi.org/10.1016/j.foodres.2019.108966>.
- Z. Rouhbakhsh, A. Verdian, Gh. Rajabzadeh. Design of a liquid crystal-based aptasensing platform for ultrasensitive detection of tetracycline. Talanta 206 (2020) 120246 <https://doi.org/10.1016/j.talanta.2019.120246>
- N. Shahgholian, Gh. Rajabzadeh. Preparation of BSA nanoparticles and its binary compounds via ultrasonic piezoelectric oscillator for curcumin encapsulation. Journal of Drug Delivery Science and Technology 54 (2019) 101323 <https://doi.org/10.1016/j.jddst.2019.101323>
- M. Sarfarazia, S. M. Jafaria, Gh. Rajabzadehb, J. Feizi. Development of an environmentally-friendly solvent-free extraction of saffron bioactives using subcritical water. LWT - Food Science and Technology 114 (2019) 108428, <https://doi.org/10.1016/j.lwt.2019.108428>.
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- B. Ghorani, R. Kadkhodae, Gh. Rajabzadeh, N. Tucker, Assembly of odour adsorbent nanofilters by incorporating cyclodextrin molecules into electrospun cellulose acetate webs. Reactive and Functional Polymers 134 (2019) 121-132.
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- M. Shahbazi, Gh. Rajabzadeh, A. Rafe, R. Ettelaie, SJ Ahmadi, Physico-mechanical and structural characteristics of blend film of poly (vinyl alcohol) with biodegradable polymers as affected by disorder-to-order conformational transition, Food Hydrocolloids 71 (2017) 259-269.

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Conferences / Workshops

- Gh. Rajabzadeh, Nanocarriers in Drug delivery work shop (CME credit), 3rd International Neuro-inflammation Congress 11-13 June, 2019, Mashhad, Iran.
- Gh. Rajabzadeh, S. Salehi, S. Sahab, Combination of herbal medicine and nanomedicine:A novel therapeutic target for neurodegenerative diseases, 2nd International Neuro-inflammation Congress 4-5 April, 2018, Tehran, Iran.
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- M. Shahbazi, Gh. Rajabzadeh. Effect of UV irradiation on rheological properties of gum tragacanth. 1st Int. conf. natural food hydrocolloids Mashhad, Iran. Oct. 22-23, 2014.
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- Gh. Rajabzadeh, H. Rajabi, S. M. Jafari. Microencapsulation of saffron extract using different wall

materials, Int. Saffron Symp., 22-25 Oct. 2012, Cashmere, India.

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- 9. Gh. Rajabzadeh, M. Raafati. Enhanced Natural Hydrophilicity by Cu- B co-doped SiO₂/ TiO₂ Thin Films. Proceedings of the 4th International Conference on Nanostructures (ICNS4) 12-14 March, 2012, Kish, Iran.
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- 12. Gh. Rajabzadeh, H. A. Fakhrabadi. An Investigation on Photo degradation of Phenolic Compounds Using CNT/SiO₂/ TiO₂ Nanocomposite. 2nd Conference on Application of Nanotechnology in Science, Engineering and Medicine(NTC2011), 16-17 may 2011, Mashhad, Iran.
- 13. Gh. Rajabzadeh, T. Mohammadkhanpoor; CNT/ SiO₂/ TiO₂: An Efficient Nanocatalyst for Adsorption of Heavy Metals from Waste Water. 2nd Conference on Application of Nanotechnology in Science, Engineering and Medicine (NTC2011), 16-17 may 2011, Mashhad, Iran.
- 14. Gh. Rajabzadeh, Z. Khodabakhshi, A. Akbari. Optimizing Synthetic Conditions in Preparation of TiO₂ Nanoparticles from TiCl₄ and Designing TiO₂/Fe/Cr Nanocomposite for Efficient Removal of Nitrite from Water. International Congress on Nanoscience & Nanotechnology 9-11 November 2010, Shiraz, Iran.
- 15. Gh. Rajabzadeh, S. Salehi. CO DOPING TiO₂ NANOPARTICLES BY Fe(III) AND HPAs: A RESPONSE SURFACE DESIGN EXPERIMENT. International Congress on Nanoscience & Nanotechnology 9-11 November 2010, Shiraz, Iran.
- 16. Gh. Rajabzadeh, N. Alamolhoda, F. F. Bamoharram. Fe-DOPED TiO₂ NANOPARTICLES AS EFFICIENT CATALYST IN THE PARTIAL OXIDATION OF ALCOHOLS. International Congress on Nanoscience & Nanotechnology 9-11 November 2010, Shiraz, Iran.
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- 18. Gh. Rajabzadeh, S. Salehi, T. Teimoortashloo, T. Heidari Experimental Design in Producing Self-Clean Surfaces.; Proceedings of the 3rd Conference on Nanostructures (NS2010); March 10-12, 2010, Kish Island, I.R. Iran.
- 19. Gh. Rajabzadeh, M. Khatami, M. Rahimizadeh, H. Eshghi. Nano-TiO₂ and Preyssler Doped Nano-TiO₂: A Facile and Efficient Catalyst for the Selective Oxidation of Sulfides to Sulfones and Sulfoxides. Proceedings of the 3rd Conference on Nanostructures (NS2010); March 10-12, 2010, Kish Island, I.R. Iran.
- 20. Gh. Rajabzadeh, S. Salehi. An Investigation on the effect of Sonication and Ethanol Concentration on BET Value of TiO₂ Nano particles Synthesized in Neutral Condition. Proceedings of the 3rd Conference on Nanostructures (NS2010); March 10-12, 2010, Kish Island, I.R. Iran.
- 21. Gh. Rajabzadeh, S. Salehi. Influence of Preparative Condition on Particle Size, Phase Transformation and Enhanced photocatalytic Activity of TiO₂ Nanoparticles in Sol-gel Method, 14th International Sol-gel Conference, Montpellier, France, 2-7 sept. 2007.
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Books

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- Enrichment of orange juice by nano-encapsulated Flaxseed oil, No. 103676, Feb. 2021.
- Nano-encapsulation of Omega3, No. 99578, Oct. 2019.
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- Saffron nano and microcapsule, No. 91811, Apr. 2017.
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