

Bi Bi Marzieh Razavizadeh

Assistant professor

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Education

- **Ph.D.**, Physical Chemistry, January 2000, Tarbiat Modarres University, Tehran, Iran. The title of thesis is: "The study of Physico-chemical parameters in ionic/nonionic mixed surfactant systems"
- **M.Sc.**, Physical Chemistry, September 1993, Tarbiat Modarres University, Tehran, Iran. The title of thesis is: "Construction of ISE to DOTAB and measurement of its physico-chemical parameters in aqueous, non aqueous, and mixed solvents"
- **B. Sc.**, Chemistry, June 1988, Ferdowsi University, Mashed, Iran

Professional Positions

- March 2000-present Assistant Professor of Chemistry, Iranian Research organization for science and technology (the name of my organization was changed to Khorasan research institute of food Science & Technology in the early of 2007) , Mashed branch
- 1994_2000 Teaching Assistance of Chemistry, Imam Khomeini International University, Ghazvin, Iran
- April 2006-Desamber 2008, Head of Department of chemistry and Materials
- December 2008- present, Research Deputy head of Institute

Publications

1. H. Gharibi; B. M. **Razavizadeh**; and A. A. Rafati, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **136** (1998), 123-132.
2. H. Gharibi; A. A. Rafati; A. fayzollahi; **B. M. Razavizadeh**; and M. A. Safarpour, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **145** (1998), 47-56.
3. H. Gharibi; **B. M. Razavizadeh**; and M. Hashemianzadeh, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **174** (2000), 375-386.
4. H. Gharibi; M. Hashemianzadeh; and **B. M. Razavizadeh**, *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **196** (2002), 31-37.
5. **B. M. Razavizadeh**; M. Mousavi-Khoshdel; H. Gharibi; R. Behjatmanesh-Ardakani; S. Javadian; and B. Sohrabi, *J. Colloid and Interface Science*, **276** (2004) 197-207.
6. S. A. Mortazavi, **B. M. Razavizadeh**, H. Karadhian; *J. of Food Technology & Nutrition*, **2** (2) (2005), 27-34 (in Persian).
7. A.A. Rafati, M. Etesami, **B. M. Razavizadeh**, *J. of Molecular Liquids*, 136 (2007) 44-49.
8. Afshin Asadzadeh Shahir, Soheila Javadian, **Bi Bi Marzieh Razavizadeh**, and Hussein Gharibi, *The Journal of Physical Chemistry B* (2011) 115, 14435–14444.
9. Songtao Yang, **Bi Bi Marzieh Razavizadeh** , Robert Pelton, and Gerard Bruin, **Nanoparticle Flotation Collectors- The Influence of Particle Softness**, *ACS Appl. Mater. Interfaces* 2013, 5, 4836–4842.
10. **B. M. Razavizadeh**, S. S. Solooti, "**Nanotechnology and its applications in cosmetics industry**", *Journal of Health and Beauty Industry*, Association of detergent, (1383), Third Year, No. 13.
11. **B. M. Razavizadeh**, M. Hosseini Nezhad, "**the toxicity of nanoparticles**," *Nano World* (1388) No. 15th, fifth year, 39-48.

Book

- “Type of vinegars and application of them”, B. M. Razavizadeh, Behnashr Publisher, 2002 (In Persian).

Presentation

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- XII Scandinavian Symposium on Surface Chemistry .(June 1994)
 - 14th Canadian Symposium on Theoretical Chemistry, (August 2001), Canada, Ottawa, (CSTC 2001).
 - ICCT-2002 (August 2002) Germany, Rostoc.
 - 39th IUPAC Congress and 86th Conference of the Canadian Society for Chemistry (Interface Chemistry), (August 2003), Canada, Ontario.
 - International Conference on Chemistry and its Applications, (December 2003), Doha, Qatar.
 - The first International congress of Iranian chemistry and chemical engineering , Shahid Beheshti University,(1994) Tehran, Iran.
 - The second International congress of Iranian chemistry and chemical engineering, Shahid Bahonar University,(1998) Kerman, Iran.
 - The 13th National congress of Iranian chemistry and chemical engineering , Tarbiat Modarres University, (1999) Tehran, Iran.
 - The second binominal seminar of Iranian electrochemistry, Tabriz University, (1998) Tabriz, Iran.
 - The third binominal seminar of Iranian electrochemistry, Mazandaran University, (1999) Babolsar, Iran.
 - The first congress of chemistry, Azad universityof Iran, (1999) Tehran, Iran.
 - The 17th National congress of Iranian chemistry and chemical engineering , Uromia University, (2007) Uromia, Iran.
 - The 5th seminar of Iranian electrochemistry, Tarbiat Modarres University, 7-8 May (2009) Tehran, Iran.
 - The 6th seminar of Iranian electrochemistry, Kish University, 7-8 October (2010) Kish, Iran.
 - Pigments in Foods VII” Congress, Novara, Italy, on 18-21 June 2013, Stablization of anthocyanins by double nanoemulsion technique, oral.
 - Pigments in Foods VII” Congress, Novara, Italy, on 18-21 June (2013), “Microencapsulation of Red Pepper Oleoresin for Coloring and Flavouring Purposes, Poster.
 - Macular carotenoids conference in Cambridge in July 2013, Extraction and Microencapsulation of Cartenoides from Red Peper .

Research projects

- Formulation of Natural liquid soap with special properties (director- supervisor)
- Chemical analyses of types of Iranian Dates (director- supervisor)
- Study of applications of nanotechnology in pollution removal from water (director-supervisor)
- Formation of Nano-emulsion of anthocyanin (director- supervisor)
- Preparation of Nano-emulsion of ginger oil for carbonated drinking (director-supervisor)
- Extraction and micro-encapsulation of red-peper oleoresin (director- supervisor)
- Nano photo catalyst Titania (TiO₂) synthesis in bench scale by sol-jell method (advisor)
- Pt/SnO₂ nano-catalyste Synthesis (advisor)
- Increasing of photo catalytic activity of nano-titania by doping of hetropolyacids (advisor)
- Nano-particle flotation collectors (director) – sabbatical project in Mc-Master University.

Teaching Experience

- Physical Chemistry, chemical engineering department, faculty of engineering, Ferdowsi University, Mashad, Iran 2005.
- General chemistry, Imam Khomeini International University, Ghazvin, Iran, 1994-1995.

Education activities

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- Supervisor of two thesis (2004, 2010)
 - Advisor of four theses (2000, 2002, 2004, 2005)

Current Research Interests

- Thermodynamic and Electrochemistry of Surfactant Systems
- Colloidal systems (emulsions)
- Nanotechnology (nano- emulsion and nano- encapsulation)

Computer Skills

- Proficiency in Microsoft Office: Word, Excel, Power Point

Technical Experience

- Hands-on experience in working with the following equipments:
Ultrasound, Tensiometer, Zeta- sizer analyzer.

Certificates

- A course in English Language Communication Skills for Teaching Purposes by Irandoc.
- Teaching and Learning Certificate by Tarbiat Modarres University.

References

1. **Professor H. Gharibi, Faculty of science, Chemistry Department, Tarbiat Modarres University, Tehran, Iran. h.gharibi@gmail.com**
2. **Professor A.A. Rafati, Chemistry Department, Bu Ali Sina University, Hamedan, Iran. rafati_aa@yahoo.com**

- 3. Dr. Marzieh Hoseyninejad, Food science Department, Khorasan research institute for food science and technology, Mashad, Iran.**

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