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Education

(List of all educational institutions attended after high school).

1996-2001 *Ph.D. of chemistry; Ferdowsi University of Mashhad (FUM), Mashhad, Iran.*

1989-1992 *M.Sc. of chemistry; Ferdowsi University of Mashhad (FUM), Mashhad, Iran.*

1983-1987 *B.Sc. of chemistry; Tabriz University, Iran.*

Languages

- Farsi-mother tongue.
- English-excellent knowledge in reading, writing and comprehension.

Computer skills

- Operating systems: Windows 2000/XP and Windows 7.
- Software: Microsoft office (word, Excel, PowerPoint, outlook)

Research Interests

- Synthesis of protein nanostructures as nutraceutical carrier
- Nano and microencapsulation of bioactive components
- Food packaging by Biodegradable polymers

Peer Reviewed Articles

1. Nargess RAHIMI, S.Ali MORTAZAVI, A.Majid MASKOOKI, **Ghadir RAJABZADEH**, A. Hossein ELHAMIRAD. Subcritical Water Extraction of Berberine from Barberry Root: Study and Optimization; J. Appl.Sci. Agri, Accepted 9(3) 2014.
2. **Ghadir Rajabzadeh**, Seyed Mehdi Jafari, Hamid Rajabi, Microencapsulation of Saffron extract by spray drying using maltodextrin, gum arabic and gelatin as wall material; J. Food Chem., In press(2014).

3. **Gh. Rajabzadeh**, S. Salehi, A. Nemati, R. Tavakoli, M. Solati Hashjin. Enhancing glass ionomer cement features by using the HA/YSZ nanocomposite: A feed forward neural network modeling, *J. Mech. Behav. Biomed. Mater.* 29, 317- 327(2014).
4. Khosravi, S., Ziaratnia, S. M., Bagheri, A., **Rajabzadeh, Gh.**, Marashi, S. H., Comparison of Cuminaldehyde Contents from Cell Suspension Cultures and Seeds of [*Bunium persicum* (Boiss.) B. Fedtsch.], *Not Sci Biol*, 4(4):49-54(2012).
5. **Ghadir Rajabzadeh**, Sahar Salehi, and Abolfazl Jalalian, Effect of Sonication and Ethanol Concentration on Surface Area of Nano TiO₂ Synthesized in Neutral Condition; *Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry* 40:1–11(2010).
6. **Gh. Rajabzadeh**, S.M.Khatami, H.Eshghi. TiO₂ nanoparticles and Preyssler-type heteropoly acid modified nano-sized TiO₂: A facile and efficient catalyst for the selective oxidation of sulfides to sulfones and sulfoxides; M. Rahimizadeh, *Journal of Molecular Catalysis A: Chemical* 323, 59–64(2010).
7. Mohammad Rahimizadeh , Zahra Bakhtiarpoor , Hossein Eshghi , Mehdi Pordel, **Ghadir Rajabzadeh**, TiO₂ nanoparticles: an efficient heterogeneous catalyst for synthesis of bis(indolyl)methanes under solvent-free conditions;; *Monatsh Chem.* 140:1465–1469(2009).
8. **Ghadir Rajabzadeh**, Hooshang Vahedi , Fahimeh Farvandi, Facile synthesis of [1,2,4]triazino[4,3-b][1,2,4,5]tetrazepin derivatives by a one-pot reactions using 4-amino-3-hydrazinyl-6-methyl-1,2,4-triazin-5(4H)-one; *Chinese Chemical Letters* 21, 1419–1422 (2010).
9. Zamani, Hassan Ali; **Rajabzadeh, Ghadir**; Ganjali, Mohammad Reza Fabrication of an Iron-PVC Membrane Sensor Based on 5-Amino-3-Methyl-1-Phenyl-1H-Pyrazole-4-Carboxamide; *Sensor Letters* Volume 7, Number 2(5), pp. 114-118(2009).
10. Hassan Ali Zamani , **Ghadir Rajabzadeh**, Mahbobeh Masrornia, Azam Dejbord, Mohammad Reza Ganjali, Nasim Seifi, Determination of Cr³⁺ ions in biological and environmental samples by a chromium (III) membrane sensor based on 5-amino-1-phenyl-1H-pyrazole-4-carboxamide; *Desalination*, 249, 560–565(2009).
11. M. M. Heravi, **G. Rajabzadeh**, M. Bakavoli, M. Rahimizadeh, and M. Ghassemzadeh; Synthesis of a Novel Heterocyclic System—7-Methyl-1,2-Dihydro-[1,2,4]triazino[3,4-b][1,2,4,5]tetrazine-6-thione; *Russian Journal of Organic Chemistry* , Vol. 44, No. 8, pp. 1233–1234(2008).
12. Zamani, H., **Rajabzadeh, Gh.**, Ganjali, M. R.; A New Ytterbium(III) PVC Membrane Electrode Based on 6-Methyl-4-[[1-(1h-pyrrol-2-yl)methylidene]amino]-3-thioxo-3,4-dihydro-1,2,4-triazin-5(2H)-one; *Talanta*, Volume 72, Issue 3, Pages 1093-1099(2007).

13. Zamani, H., **Rajabzadeh, Gh.**, Ganjali, M. R, Norouzi, P., Determination of Gadolinium(III) Ions in Soil and Sediment Samples by a new Gadolinium Sensor Based on 6-methyl 4-[[1-(2-thienyl) methylidene] amino] 3-thioxo-3,4-dihydro-1,2,4-triazin-5-(2H)-One; *Analytica Chimica Acta* 598, 51-57 (Jul. 2007).
14. Zamani, H., **Rajabzadeh, Gh.**, Ganjali, M. R, A New Europium(III) PVC Membrane Potentiometric Sensor Based on 4-(2-Hydroxybenzylideneamino)-6-methyl-3-thioxo-3,4-dihydro-1,2,4-triazin-5(2H)-one *Bull. Chem. Soc. Jap.* 80 (1), 172-177(may 2007).
15. Zamani, H., **Rajabzadeh, Gh.**, Ganjali, M. R. Construction of a Novel PotentiometricTerbium Sensor and its. *J. Brazil. Chem. Soc.* 17(7), 1297-1303 (2006).
16. **Rajabzadeh, Gh.**, Heravi M. M, Bamoharram, F. ; An Ecofriendly Catalyst for the Synthesis of 4-Amino-Pyrazolo pyrimidines. *J. Mol. Cat.* ; 256, 238-241(2006).
17. Heravi, M. M., Bamoharram, F., **Rajabzadeh, Gh.**, Seifi, N., Khatami, M.; Preyssler Heteropolyacid as a New, Green and Recycleable Catalystfor the Synthesis of [1,2,4]triazino[4,3-b][1,2,4,5] tetrazines; *J. Mol. Cat.*; 259, 213-217(2006).
18. Zamani, H., **Rajabzadeh, Gh.**, Ganjali, M. R.; Highly Selective and Sensitive Chromium(III) Membrane Sensors Based on 4-Amino-3-hydrazino-6-methyl-1,2,4-triazin-5-one as a new Neutral Ionophore; *Sensors and Actuators; B* 119, 41-46 (2006).
19. Zamani, H and **Rajabzadeg, Gh.**; Synthesis of 4-Amino-6-Methyl-1,2,4-triazin-5-one -3-thione and its Application in Construction of Highly CopperII Ion Selective Electrochemical Sensor., *J. Brazil. Chem. Soc.* 16(5), 1061-1067(2005).
20. Zamani, H. and **Rajabzadeh, Gh**; The synthesis of 6-methyl-4-(1-phenylmethylidene)-amino-3-thioxo-1,2,4-Triazin-5- One as a Neutral Ionophore...; *Electroanalysis*, 17, 2260(2005).
21. **Rajabzadeh, Gh.**; Malekzadeh, R.; sharif, A.; Extraction and Evaluation of Saffron Oleoresin; *J. Acta Hort.* 650, 361-365 (2004).
22. Heravi M. M., **Rajabzadeh G**, Rahimizadeh M, et al.Thiation of Heterocycles using Silica gel Supported P2S5 under Microwave Irradiation in Solventless System *SYNTH. COMMUN.* 31: (15) 2231-2234, 2001.
23. Heravi M. M., **Rajabzadeh G**, Rahimizadeh M, et al.Condensed Thiadiazines: Synthesis of [1,2,4]Triazino[3,4-b] [1,3,4]Thiadiazines *PHOSPHORUS SULFUR* 170: 205-209 ,2001.
24. Heravi M. M., **Rajabzadeh G**, Rahimizadeh M.A Convenient and General Synthesis of a Novel Heterocyclic System; 5H- [1,3,4]Thiadiazolo[2,3-d] [1,2,4]Triazin-5-ones; *PHOSPHORUS SULFUR* 174: 129-132 (2001).

25. Heravi M. M., **Rajabzadeh G**, Rahimizadeh M, Synthesis of a Novel Heterocyclic System: 4H-[1,2,4]Triazino[4,5-b][1,3] Thiadiazine PHOSPHORUS SULFUR 175: 193-197 (2001).
26. Heravi M. M., **Rajabzadeh G**, Rahimizadeh M, Sythesis of [1,2,4] Triazino[2, 3- b] [1,3,4] Thiadiazines; Molecules 6, M242 (2001).
27. Heravi M. M., **Rajabzadeh G**, Rahimizadeh M, 3-Amino-9-Methyl-2H, 6H-[1,2,4] triazino[5,4-b][1,3,4]thiadiazines; Molecules 6, M238 (2001).
28. Heravi M. M., **Rajabzadeh G**, Rahimizadeh M, 8-Dihydro-3-methyl-7-amino-[1,2,4]triazino[3,4-b][1,3,4]thiadiazine Molecules 5, M190 (2000).
29. Rajabzadeh,**Gh**; **Rahimizadeh**,M; Preparation of Ethylenediamine by Ammonolysis of 1,2-Dichloroethane in Nonaqueous Media; Iranian Journal of Chem. and Chem. Eng. (1995).

Conference presentation

1. Optimization of microwave extraction of saffron neutraceuticals, Sarfarazi, M., Jafari, S. M., **Rajabzadeh, Gh.**, Int. Saffron Symp., 22-25 Oct. 2012, Cashmere, India.
2. Synthesis and characterization of HA-YSZ, Salehi, S., **Rajabzadeh, Gh.**, Nemati, A., Solati Hashtjin, M., The 14thIranian National Chemical Engineering Congress (ICHEC 2012) Sharif University of Technology, Tehran, Iran, 16-18 October, 2011.,
3. Enhancing Glass Inomer Cement Properties by HA-YSZ Nanocomposite : a Mixure Design Experiment; S. Salehi, **Gh. Rajabzadeh**, A. Nemati, M. Solati Hashtjin, New and Advanced Materials International Congress Islamic Azad University, Majlesi Branch, May 10-12, 2012,Isfahan, Iran.
4. Catalytic hydrolysis of cellulose using TiO₂-SiO₂ mixed-oxide under microwave irradiation, **Rajabzadeh, Gh.**, saboori, Z., Farahbakhsh, I., National Conference on Nanotechnology and Green Chemistry-NCNG 2013, Tehran, Iran
5. Microencapsulation of saffron extract using different wall materials, **Rajabzadeh, Gh.**, Rajabi, H., Jafari, S. M., Int. Saffron Symp., 22-25 Oct. 2012, Cashmere, India.
6. Subcritical water extraction of Saffron nutraceuticals by response surface methodology, **Rajabzadeh, Gh.**, Sarfarazi, M., Jafari, S. M., Int. Saffron Symp., 22-25 Oct. 2012, Cashmere, India.
7. Enhanced Natural Hydrophilicity by Cu- B co-doped SiO₂/ TiO₂ Thin Films.**Rajabzadeh, Gh.** Raafati, M.; Proceedings of the 4th International Conference on Nanostructures (ICNS4) 12-14 March, 2012, Kish, Iran.

8. Microwave Assisted Synthesis of TiO₂ nanotube: Influence of Irradiation Power, Temperature and Pressure on its Photocatalytic Activity and Morphology. **Rajabzadeh, Gh.** Firuzian, A.; Proceedings of the 4th International Conference on Nanostructures (ICNS4) 12-14 March, 2012, Kish, Iran.
9. Synthesis of HA-Y₂O₃-ZrO₂-SiO₂ as a novel quaternary nano composite. Salehi, S., **Rajabzadeh, Gh.**, Nemat, A., Solati Hashtjin, M. Proceedings of the 4th International Conference on Nanostructures (ICNS4) 12-14 March, 2012, Kish, Iran
10. An Investigation on Photo degradation of Phenolic Compounds Using CNT/SiO₂/TiO₂ Nanocomposite; **Gh. Rajabzadeh**, H. A. Fakhrabadi, 2nd Conference on Application of Nanotechnology in Science, Engineering and Medicine(NTC2011), 16-17 may 2011, Mashhad, Iran.
11. CNT/ SiO₂/ TiO₂: An Efficient Nanocatalyst for Adsorption of Heavy Metals from Waste Water. **Gh. Rajabzadeh**, T. Mohammadkhanpoor; 2nd Conference on Application of Nanotechnology in Science, Engineering and Medicine(NTC2011), 16-17 may 2011, Mashhad, Iran.
12. Optimizing Synthetic Conditions in Preparation of TiO₂ Nanoparticles from TiCl₄ and Designing TiO₂/Fe/Cr Nanocomposite for Efficient Removal of Nitrite from Water; **Gh. Rajabzadeh**, Z. Khodabakhshi, A. Akbari; International Congress on Nanoscience & Nanotechnology 9-11 November 2010, Shiraz, Iran.
13. CO DOPING TiO₂ NANOPARTICLES BY Fe(III) AND HPAs: A RESPONSE SURFACE DESIGN EXPERIMENT; **Gh. Rajabzadeh**, S. Salehi; International Congress on Nanoscience & Nanotechnology 9-11 November 2010, Shiraz, Iran.
14. Fe-DOPED TiO₂ NANOPARTICLES AS EFFICIENT CATALYST IN THE PARTIAL OXIDATION OF ALCOHOLS. **Gh. Rajabzadeh**, N. Alamolhoda, F. F. Bamoharram; International Congress on Nanoscience & Nanotechnology 9-11 November 2010, Shiraz, Iran.
15. FeCl₃-B₂O₃ ON SiO₂/TiO₂ NANOCOMPOSITE: AN EFFICIENT CANDIDATE FOR SUN LIGHT ACTIVATED SELF CLEAN SURFACE. **Ghadir Rajabzadeh**, Sahar Salehi, Telly Teimoortashloo; 10th International Conference on Clean Energy (ICCE-2010) Famagusta, N. Cyprus, September 15-17, 2010.
16. Experimental Design in Producing Self-Clean Surfaces. **Gh. Rajabzadeh**, S. Salehi, T. Teimoortashloo, T. Heidari; Proceedings of the 3rd Conference on Nanostructures (NS2010); March 10-12, 2010, Kish Island, I.R. Iran.
17. Nano-TiO₂ and Preyssler Dopped Nano-TiO₂: A Facile and Efficient Catalyst for the Selective Oxidation of Sulfides to Sulfones and Sulfoxides; **Gh. Rajabzadeh**, M.

- Khatami, M. Rahimizadeh, H. Eshghi, Proceedings of the 3rd Conference on Nanostructures (NS2010); March 10-12, 2010, Kish Island, I.R. Iran.
18. An Investigation on the effect of Sonication and Ethanol Concentration on SBET Value of TiO₂ Nano particles Synthesized in Neutral Condition. **Ghadir Rajabzadeh**, Sahar Salehi; Proceedings of the 3rd Conference on Nanostructures (NS2010); March 10-12, 2010, Kish Island, I.R. Iran.
 19. Influence of Preparative Condition on Particle Size, Phase Transformation and Enhanced photocatalytic Activity of TiO₂ Nanoparticles in Sol-gel Method. **Rajabzadeh, Gh**, 14th International Sol-gel Conference, Montpellier, France, 2-7 Sept. 2007.
 20. Influence of Preparative Condition on Particle Size and Phase Transformation of TiO₂ Nanoparticles in Sol-gel Method. **Rajabzadeh, Gh**, Salehi, S.; 9th Iranian Inorganic Chemistry Conference, 7-8 March, 2007.
 21. Microwave-Assisted H₃PW₁₂O₄₀ /SiO₂ Catalyzed Synthesis of [1,2,4] Triazino [4,3-b] [1,2,4,5] Tetrazines ;**Gh. Rajabzadeh**, N. Seifi, R. Zhiani, A. Gharib, M. Khatami; 12th Iranian Seminar of Organic Chemistry; Ahwaz Jundi Shapur University of Medical Sciences; 7-9 March 2006.
 22. Remarkable Fast Microwave-Assisted H₃PW₁₂O₄₀ /SiO₂ Catalyzed Synthesis of 4-Amino-pyrazolo[3,4-d] pyrimidine Derivatives; **Gh. Rajabzadeh**, N. Seifi, R. Zhiani, A. Gharib, M. Khatami; 12th Iranian Seminar of Organic Chemistry; Ahwaz Jundi Shapur University of Medical Sciences; 7-9 March 2006.
 23. Microwave Assisted Synthesis of 4-Amino-pyrazolo[3,4-d] pyrimidines with Cytotoxic Activity; **Rajabzadeh, Gh.**, Seifi, N.; First Seminar of Medicinal Chemistry, Shiraz, Iran, 11- 12 May, 2005.
 24. A Convenient and General Synthesis of a Novel Heterocyclic System; [1,2,4] Triazino [4,5-b] [1,2,4,5] Tetrazines; **Rajabzadeh, Gh**, Majid Heravi, Rahimizadeh., M, 11th Iranian Seminar of Organic Chemistry, 1-3 Feb, 2005.
 25. Extraction and Evaluation of Oleoresin from Solar and Microwave Dried Saffron; **Rajabzadeh, Gh.**, Malekzadeh, R.; International Symposium on Saffron Biology and Biotechnology, Albacete, Spain Oct. 22- 25 (2003).
 26. A General Method for Thiation of Heterocycles Using Silicagel Supported P₂S₅ Under Microwave Irradiation; Heravi,M; Rajabzadeh,**Gh**; **Rahimizadeh**,M; Bakavoli,M; Eighth Iranian Seminar of Organic Chemistry; Kashan University, Kashan; May 16-18, 2000.

27. Synthesis of Novel Heterobicyclic System Fused with [1,2,4] Triazines; Heravi,M; Rajabzadeh,*Gh*; *Rahimizadeh*, M; Bakavoli,M; Eighth Iranian Seminar of Organic Chemistry; Kashan University, Kashan; May 16-18, 2000.
28. Ethylenediamine from Ammonolysis of Dichloroethane in nonaqueous Media; *Rajabzadeh, G.* and Rahimizadeh, M.; 7TH Congress of Chem. & Chem. Enj. 1-4 sept., 1992.

Research Projects

1. Fabrication of albumin nanostructures using ultrasonic piezoelectric oscillators and evaluation of the product as a nutraceutical carrier: curcumin as a hydrophobic model.
2. Encapsulation of Saffron bioactive compounds
3. An investigation on Supercritical fluid extraction of chamomile essential oil.
4. Production of Spices Oleoresin.
5. Self clean surface based on SiO₂/ TiO₂ nanoparticles.