

Shohre Rouhani



Place of Birth    Tabas  
Marital Status    Married  
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### Education

	<b>Place</b>	<b>Year</b>	<b>Project Title</b>
B.A.	Mashad University	1988	
M.Sc.	<b>Shiraz University</b>	<b>1993</b>	a) Spectrophotmetric Determination of Acidity Constants of Some Anthraquinone Derivatives in Binary Methanol-Water Mixtures b) Spectrophotmetric Study of Complexation of Some Amino Acides with Calcium Ion in H <sub>2</sub> O-EtOH Binary Mixtures Using Murexide as a Metallochromic Indicator
Ph.D.	<b>Bu-Ali Sina University</b>	2000	Preparation of New PVC Membrane Sensors for Cu(II), Zn(II), Sr(II), Ag(I) and Bromide Ions.

### Research Interests

- Electrochemistry ( Electrochemical synthesis of organic intermediates and dyes)
- Sensors and Biosensors (Optical and electrochemical sensors)
- Study on photochemical and photophysical properties of organic colorants and their high technology applications
- Natural dyes

## Job Experiences

- Head of Organic Colorants Department(2000-2006)
- Head of Equipment Committee (2000-2004)
- Head of Central Laboratory (2007)

## Research Projects

## Year

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| ▪ Simultaneous Determination of Two Colorants Via Spectrophotometer  | 2003 |
| ▪ Synthesis of Basic Red 12 by Using Available Starting Materials in Iran  | 2004 |
| ▪ Design and Construction of Optical pH Sensor Based on some Azo Dyes.   | 2004 |
| ▪ Extraction of Pomegranate Rind Colorant and Its Industrial Food Applications .   | 2005 |
| ▪ Feasibility study of acrylic fibers dyeing with cationic dyes using ultrasound   | -    |
| ▪ Separation and Identification of Some Plants Dyes  | -    |
| ▪ Fabrication of potentiometric sensors for determination of synthetic food colorants in food and drug products  | -    |
| ▪ Extraction and Purification of Myricitine and Tanin from Sumach and microbial and physicochemical Control of Phytochemical Components for Application in Pharmaceutical Industries | -    |
| ▪ Extraction of the food Colorant from Cercis Siliquastrum and Investigation on its Stability for Application in Different Industries.   | 2004 |
| ▪ Electrochemical Synthesis of Some Organic Dyes and Their Intermediates   | -    |
| ▪ Study on Waste Water Treatments of Textile Industry  | -    |

## List of Publications

1. Spectrophotometric Determination of Acidity Constants of Some Anthraquinone Derivatives in Binary Methanol-Water Mixtures, S. Rouhani, R. Rezaei, H. Sharghi, M. Shamsipur and G. Rounaghi ,, *Microchem. J.*, **52** (1995) 22.
2. Copper(II)-Selective Membrane Electrode Based on a Recently Synthesized Macrocyclic Diamide, M. Shamsipur, S. Rouhani, M. R. Ganjali, H. Eshghi and H. Sharghi , *Microchem. J.*, **63** (1999) 202.
3. Strontium-Selective Membrane Electrodes Based on Some Recently Synthesized Benzo-

- Substituted Macrocyclic Diamides, M. Shamsipur, S. Rouhani, H. Sharghi, M. R. Ganjali and H. Eshghi, *Anal. Chem.* **71** (1999) 4938.
4. Zinc-Selective Membrane Potentiometric Sensor Based on a Recently Synthesized Benzo-Substituted Macrocyclic Diamide M. Shamsipur, S. Rouhani, M. R. Ganjali, H. Sharghi and H. Eshghi, *Sens. Actuators B*, **59** (1999) 30.
  5. A Bromide Ion-Selective Polymeric Membrane Electrode Based on a Benzo-Derivative Xanthenium Bromide Salt, M. Shamsipur, S. Rouhani, A. Mohajeri, M. R. Ganjali and P. Rashidi-Ranjbar, *Anal. Chim. Acta*, **418** (2000) 197.
  6. Highly Selective and Sensitive Copper(II) Membrane Coated Graphite Electrode Based on a Recently Synthesized Schiff's Base, M. R. Ganjali, T. Poursaberi, L. Hajiagha-Babaei, S. Rouhani, M. Yousefi, M. Kargar-Razi, A. Moghimi, H. Aghabozorg and Shamsipur, *Anal. Chim. Acta*, **440** (2001) 81.
  7. Cobalt(II)-Selective Membrane Electrode Based on a Recently Synthesized Benzo-Substituted Macrocyclic Diamide M. Shamsipur, T. Poursaberi, S. Rouhani, K. Niknam, H. Sharghi and M. R. Ganjali, *Anal. Sci.*, **17** (2001) 1049.
  8. The Synthesis of a New Thiophen-Derivative Schiff's Base and Its Use in Preparation of Copper-Ion Selective Electrodes, T. Poursaberi, L. Hajiagha-Babaei, M. Yousefi, S. Rouhani, M. Shamsipur, M. Kargar-Razi, A. Moghimi, H. Aghabozorg and M. R. Yousefi, *Electroanalysis*, **13** (2001) 1513.
  9. A Selective Membrane Electrode for Thiocyanate Ion Based on a Copper-1,8-Dimethyl-1,3,6,8,10,13-hexaazacyclotetradecane Complex as Ionophore, T. Poursaberi, M. Salavati-Niassari, S. Khodabakhsh, L. Haji-aga Babaei, M. Shamsipur, M. Yousefi, S. Rouhani and M. R. Ganjali, *Anal. Lett.*, **34** (2001) 2621.
  10. Cobalt(II)-Selective Coated Graphite Membrane Electrode Based on a Recently Synthesized Dibenzopyridino-Substituted Macrocyclic Diamide, M. Shamsipur, S. Rouhani, T. Poursaberi, M. R. Ganjali, H. Sharghi and K. Niknam, *Electroanalysis*, **14** (2002) 729.
  11. PVC membran ion-selective bulk optode for Ag<sup>+</sup> ion based on Hexathia-18-crown-6 and 1,2-Benzo-3-octadecanoylimino-7-diethylaminophenoxazine, M. Shamsipur, S. Rouhani, A. Mohajeri and M. R. Ganjali, *Anal. Bioanal. Chem.*, **375**(5)(2003)692.
  12. Silver Selective PVC-Membrane Sensors With and Without Graphite Based on C-methylcalix[4]resorcareneocta methyl Ester, M. Shamsipur, S. Rouhani, A. Mohajeri, M.R.

Ganjali and T. Poursaberi, *Chem. Anal. (Warsaw)*, 48 (2003) 947.

13. Synthesis, spectral properties and application of novel monoazo disperse dyes derived from N-ester-1,8-naphthalimide to polyester. Kamaladin Gharanjig, Mokhtar Arami, Hajir Bahrami, Barahman Movassagh, Niyaz Mohammad Mahmoodi and Shohre Rouhani, *Dyes and Pigments*, **In Press, Corrected Proof**, Available online 24 February 2007.
14. Electrosynthesis of dixanthylene photochromic dye, characterization and ab initio calculations, Naader Alizadeh, Mohsen Babaei, Mohammad Aghamohammadi and Shohre Rohani. *Dyes and Pigments*, **In Press, Corrected Proof**, Available online 22 January 2007.
15. Multiwavelength spectrophotometric determination of acidity constants of some azo dyes, Mojtaba Shamsipur, Bozorgmehr Maddah, Bahram Hemmateenejad, Shohreh Rouhani and Kamaladin Haghbeen. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, **In Press, Accepted Manuscript**, Available online 17 July 2007