# Mahsan Miladi

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## Education

Ph.D.: 2011 to present
*Baylor University, Bioanalytical Chemistry (Mass Spectrometry)*

Ph.D.: 2009 to 2011 (transferred to Baylor University)
*University of Maine, Bioanalytical Chemistry (Mass Spectrometry)*

M.Sc.: 2004 to 2006
*Razi University, Kermanshah, Iran, Analytical Chemistry (Spectroscopy)*

B.Sc.: 1999 to 2003
*Razi University, Kermanshah, Iran, Applied Chemistry*

## Association Membership

American Society for Mass spectrometry

## Publications

1. Zekavat, B.; **Miladi, M.**; Alfdeilat, A.; Solouki, T., Evidence for Sequence Scrambling and Divergent H/D Exchange and Proton Transfer Reactions of Substance P Isobaric $b_{10}^{2+}$ Fragments, *Journal of the American Society for Mass Spectrometry* **2013**, under review.

2. **Miladi, M.**; Harper, B.; Solouki, T, Sequence Scrambling in Collision-Induced Dissociation of y-Type Fragment Ions **2013**, in press.

3. Zekavat, B.; **Miladi, M.**; Becker, C.; Munisamy, S. M.; Solouki, T., Combined Use of Post-Ion Mobility/Collision-Induced Dissociation and Chemometrics for b fragment Ion Analysis, **2013**, in press.

4. **Miladi, M.**; Zekavat, B.; Munisamy, S. M.; Solouki, T, A Systematic Study on the Effect of Histidine Position and Fragment Ion Size on the Formation of $b_n$ Ions, *International Journal of Mass Spectrometry,* **2012,** 316-18, 164-173.

5. Solouki, T.; Khalvati, M. A., **Miladi, M.**; Zekavat, B.; State-of-the-art Chemical Analysis of Xenobiotics and Residues in Plant Based Products: Plant Proteomics. In *Organic Xenobiotics and Plants: From Mode of Action to Ecophysiology", Edited by Peter Schroeder,* Schroeder, P., Ed. Springer-Verlag Berlin Heidelberg: New York, **2011**.

6. Ghasemi, J.; **Miladi, M.**, "Association Equilibrium of Methylene Blue by Spectral Titration and Chemometrics Analysis: A Thermodynamic Study", *Journal of the Chinese Chemical Society*, **2009**, 56, 1-10.

7. Ghasemi, J.; **Miladi. M.**, "Kinetic Spectrophotometric Determination of Thiosulfate Based on its Inhibitory Effect on the Oxidation of Methyl Red by Bromate", *Analytical Chemistry (Rajkot, India)*, **2006**, 3, 99-102.

## Conference Presentations

1. **Miladi, M**.; Harper, B.; Solouki, T., Sequence Scrambling in Collision-Induced Dissociation of y-Type Fragment Ions. *Proceedings of the 61st ASMS Conference on Mass Spectrometry and Allied Topics* **2013,** Minneapolis, MN.

2. Harper, B.; **Miladi, M.**; Zekavat, B.; Solouki, T., Probing the Effect of Primary Structure Variance on the Gas-Phase Conformations of Insulin and Lispro. *Proceedings of the 61st ASMS Conference on Mass Spectrometry and Allied Topics* **2013,** Minneapolis, MN.

3. Harper, B.; **Miladi, M.**; Olaitan, D. ; Zekavat, B; Solouki, T., Biomedical "X-Omics" Research. *Enhancing Research Through Collaboration Retreat*, Waco, Texas **2013**.

4. **Miladi, M.**; Zekavat, B.; Solouki, T., Proton Affinity-Based Kendrick Plots for Classification of Oil Samples: Potential in Source Characterization. *Proceedings of the 58th ASMS Conference on Mass Spectrometry and Allied Topics* **2010,** Salt Lake City, UT.

5. Solouki, T.; Zekavat, B.; **Miladi, M.**, On the Existence of Structurally Different Isobaric $b_n$ Fragment Ions. *Proceedings of the 58th ASMS Conference on Mass Spectrometry and Allied Topics* **2010,** Salt Lake City, UT.

6. **Miladi, M.**; Zekavat, B.; Al-Fdeilat, A. H.; Solouki, T., "Structurally Different Isobaric $B_n$ Fragment Ions during Peptide/Protein Sequencing: Consequences for Top-Down Proteomics", *12th Annual Graduate Student Research Expo* **2010**, University of Maine, Orono, ME.

7. Zekavat, B.; Clark, J.; **Miladi, M.**; Solouki, T.; Farzaliyev, V. M.; Mammadova, P. Sh.; Babayev, E. R., "Proton Affinity-Based Kendrick Plots for Classification

of Oil Samples: Potential in Source Characterization", *12th Annual Graduate Student Research Expo* **2010**, University of Maine, Orono, ME.

8. Solouki, T.; Zekavat, B.; **Miladi, M.**; Rasaiah, J. C.; Silwal, I. K.; "Characterization of Petroleum Samples by GC/FT-ICR MS", *Proceedings of the American Chemical Society (ACS) National Meeting*, August 16-20, **2009**, Washington, DC.

## Professional Experiences

Research Assistant, Research Center of Petroleum (RCP), Kermanshah, Iran, **2006-2007**

## Teaching Experiences

1. Teaching Assistance, Principles of Quantitative Analysis and Solution Equilibria, University of Maine, Orono, ME, September **2010** to May **2011.**

2. Teaching Assistance, Advanced Integrated Laboratory I, University of Maine, Orono, ME, January to May **2010.**

3. Teaching Assistance, General Chemistry Laboratory, University of Maine, Orono, ME, January to December **2009.**

4. Teaching Assistance, Analytical Laboratory II, Razi University, Kermanshah, Iran January to December **2004.**

5. Teaching Assistance, Analytical Laboratory I, Razi University, Kermanshah, Iran January to December **2003.**