# Curriculum Vitae

**Nargess Mehdipour**

Married (one daughter 12 years old)

**Education**
B. Sc. in Chemistry, Shiraz University, Shiraz, Iran (1993).
M. Sc. in Physical Chemistry, Shiraz University, Shiraz, Iran (1997).
Ph.D. in Physical Chemistry, Shiraz University, Shiraz, Iran (2007).

**Teaching Experience**
Persian Gulf University as an Instructor of Physical Chemistry, Boushehr, Iran, from Sep.1999 to Sep. 2007.
Persian Gulf University as an Assistant of Physical Chemistry, Boushehr, Iran, from Sep.2007 to now.
The courses thought include General Chemistry, Physical Chemistry, Molecular Spectroscopy, Advanced Physical Chemistry, Statistical Mechanics, and Special Topics in Physical Chemistry.

**Research Interests**
Equation of state for nonpolar fluids

**Honors and Awards:**

**Papers presented at national and international conferences**
The 6$^{th}$ Congress of Chemical Engineering, June 2002, Isfahan University of Technology, Isfahan, Iran.
The 5$^{th}$ Conference of Physical Chemistry, Persian Gulf University, Boushehr, Iran.
The 17$^{th}$ IUPAC Conference on Chemical Thermodynamics, July 2002, Rostock, Germany.
Global Phase Diagrams, 3$^{rd}$ International Workshop, September 2003, Odessa, Ukraine.
The 12$^{th}$ International Conference on Liquid and Amorphous Metals, July 2004, Metz, France.
13$^{th}$ Conference of Physical Chemistry, April 2010, Shiraz, Iran.
14$^{th}$ Conference of Physical Chemistry, March 2011, Kish, Iran.

**Industrial Experiences:**
1-H. Eslami and N. Mehdipour, Prediction of Phase Equilibria in Oil and Gas Fluids, National Iranian Oil Company, 1386-1388.

**Publications:**


1. N. Mehdipour, A. Boushehri, An Analytical Equation of State for Mercury, Int. J. Thermophys. 18 (1997) 1329-1333.
2. N. Mehdipour, A. Boushehri, Equation of State for Molten Alkali Metal Alloys from Surface Tension, Int. J. Thermophys. 19 (1998) 331-340.

3. N. Mehdipour and H. Eslami, Calculation of Transport Properties of Simple Fluids, Int. J. Thermal Sci., 41 (2002) 949-954.
4. H. Eslami, N. Mehdipour, M. Farrokhnia, A. Boushehri, A Perturbed Hard-Sphere Equation of State for Refractory Metals, Fluid Phase Equil. 226 (2004) 277-281.
5. N. Mehdipour, A. Boushehri, and H. Eslami, Prediction of the Density of Molten Metals, J. Non-Cryst. Solids 351 (2005) 1333-1337.
6. H. Eslami, N. Mehdipour, A. Boushehri, An Analytical Equation of State for Refrigerant Mixtures, Int. J. Ref. 29 (2006) 150-154.
7. N. Mehdipour, F. Moosavi, A Perturbed Hard Sphere Equation of State for Liquid Metals, Phys. Chem. Liq. 49 (2011) 347-354.
8. H. Eslami, N. Mehdipour, Grand Canonical Ensemble Molecular Dynamics Simulation of Water Solubility in Polyamide-6,6, Phys. Chem. Chem. Phys. 14 (2011) 669-673.
9. H. Eslami, L. Mohammadzadeh, and N. Mehdipour, Reverse Nonequilibrium Molecular Dynamics Simulation of Thermal Conductivity in Nanoconfined Polyamide-6,6, J. Chem. Phys. 135, (2011) 064703.
10. N. Mehdipour, T. Ansari, A perturbed hard-sphere-chain equation of state for mixtures: Prediction from critical point constants, Fluid Phase Equilibr. 305 (2011) 169-173.
11. H. Eslami, L. Mohammadzadeh, and N. Mehdipour, Anisotropic heat transport in nanoconfined polyamide-6,6 oligomers: Atomistic reverse nonequilibrium molecular dynamics simulation, J. Chem. Phys. 136 (2012) 104901.
12. H. Eslami and N. Mehdipour, "Molecular Dynamics Simulation of Permeation in Polymers" in Molecular Dynamics - Studies of Synthetic and Biological Macromolecules, ed. L. Wang, Chapter 4, PP. 61-82 (2012). http://www.intechopen.com/articles/show/title/molecular-dynamics-simulation-of-permeation-of-gases-in-polymers.
13. H. Eslami, L. Mohammadzadeh, and N. Mehdipour, Anisotropic heat transport in nanoconfined polyamide-6,6 oligomers: Atomistic reverse nonequilibrium molecular dynamics simulation, J. Chem. Phys. 136 (2012) 104901.
14. N. Mehdipour, S. Bagheri, Molecular Dynamics Simulation of Nanoconfined *n*-decane, J. Mol. Liq. 180 (2013) 101–106

15. H. Eslami, B. Jaafari, and N. Mehdipour, Coarse Grained Molecular Dynamics Simulation of Nanoconfined Water", ChemPhysChem 14 (2013) 1063-1070.
16. H. Eslami and N. Mehdipour, Local chemical potential and pressure tensor in inhomogeneous nanoconfined fluids, J. Chem. Phys. 137 (2012) 144702.
17. N. Mehdipour and Kh. Bahri, Mesoscale Simulation of Water, J. Iran. Chem. Soc. (2013); DOI 10.1007/s13738-013-0250-4.
18. N. Mehdipour, Correlation for the Viscosity of Liquid Alkali Metals, Fluid Phase Equilib. (In Press).