



gheorghe@oshaliang.com
713.228.8600

909 Fannin
Suite 3500
Houston, Texas 77010
fax: 713.228.8778

Areas of Practice

Domestic & Foreign Patent Prosecution

Industries Served

Tobacco
Chemical

Education

University of Houston
Ph.D. Inorganic Chemistry (2008)

University of Bucharest, Romania
M.S., Chemistry, summa cum laude (1997)
B.S., Chemistry, (1996)

Professional Activities

American Chemical Society
The Honor Society of Phi Kappa Phi

Languages

English (proficient)
Romanian (native)

Dana Gheorghe, Ph.D. Patent Engineer

Dr. Gheorghe has more than six years of domestic and foreign patent preparation and prosecution experience. She has drafted, filed, and prosecuted numerous patent applications in the field of chemistry, polymers, materials science, electronics, oilfield technologies, semiconductors and pharmaceuticals.

Prior to joining Osha Liang, Dr. Gheorghe worked for more than five years in the tobacco industry, where she gained industrial experience at both the pilot and commercial plant scale, with emphasis in research, development and production management. Further, Dr. Gheorghe previously performed research in the areas of biomedical applications of nanotechnology and structure-property relationships and reactivity of transition metal oxides at the College of Pharmacy-University of Houston and Texas Center for Superconductivity, respectively.

Dr. Gheorghe earned her Ph.D. in Inorganic Chemistry at the University of Houston, where her graduate dissertation focused on the Solid State Chemistry of Mixed-Valent Gold Perovskites. Further, she has performed research in the areas of biomedical applications of nanotechnology (such as magnetic nanoparticles with dual response for the MRI detection of ovarian cancer and laser ablation), and structure-property relationships and reactivity of transition metal oxides. She also has extensive experience with solid state synthesis techniques, as well as with a number of analytical techniques, including microscopy (Transmission Electron Microscopy and Scanning Electron Microscopy), spectroscopy, crystallography and voltammetry.

Selected Publications and Presentations

- Gheorghe, D. E., Litvinchuk, A. P., Möller, A., "Crystal structure and Vibrational Properties of a Sodium Oxoferrate (II) Hydroxide, Na₅[FeO₃][OH]", Z. Anorg. Allg. Chem. 2012, 638, 1.
- Gheorghe, D. E., Litvinchuk, A. P., Möller, A., "Electronic Excitations and Lattice Dynamics of Coordinatively 'Unsaturated' Complex Transition Metal Compounds", Inorg. Chem. 2012, 51, 5822.
- "Unraveling the Electronic Structure of Coordinative 'Unsaturated' Complex Transition Metal Compounds by Raman Spectroscopy", Gheorghe, D. E.; Litvinchuk, A. P.; Möller, A., 241st ACS National Meeting, Anaheim, CA (2011).
- "Gold-silver Alloy Nanoshells: A New Candidate for Nanotherapeutics and Diagnostics", Gheorghe, D. E.; Penaloza, J. M.; Karmonik, C.; Drezek, R. A.; Bikram, M., 239th ACS National Meeting, San Francisco, CA (2010).

Professional Honors

- Eby Nell McElrath Postdoctoral Fellowship (2011)
- Texas Center for Superconductivity (TcSUH) Travel Award (2008)
- College of Natural Sciences and Mathematics at the University of Houston and Office of Naval Research Travel Award (2007)
- Robert A. Welch Foundation Fellowship (2003, 2005-2007)