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PROFESSIONAL PREPARATION

1. Post-Doctoral Associate, LLNL, Livermore, CA 1989-90. Optical Sensors and Measurements
2. New Mexico State University, Ph.D. in Physical Chemistry, 1988.
Dissertation: "Energetics and Dynamics of Excited State in Ruthenium(II) Diimine Complexes
3. North Carolina State University, B.S. in Chemistry, 1985.

APPOINTMENTS

1. Professor of Chemistry, University of South Carolina, Columbia, SC 2003-present.
2. President, Coblenz Society, 2011-2013
3. Chief Scientist, Ometric Corporation, Columbia, SC 2004-2011
4. Associate Professor of Chemistry, University of South Carolina, Columbia, SC 1997-2003.
5. Assistant Professor of Chemistry, University of South Carolina, Columbia, SC 1991-1997.
6. Participating Guest, Lawrence Livermore National Laboratory, Livermore, CA, 1995-present.
7. Visiting Scientist, University of California at Santa Barbara, CA, 1996-1997.

PUBLICATIONS (from a total of 156)

Linear Discriminant Analysis of Single-Cell Fluorescence Excitation Spectra of Five Phytoplankton Species

Laura S. Hill, Tammi L. Richardson, Joseph A. Swanstrom, Kathleen A. Donaldson, Michael Allora, Jr., Timothy J. Shaw and Michael L. Myrick
Appl. Spectrosc. 66 (2012), 60-65.

The Kubelka-Munk Formula Revisited

M.L. Myrick*, Megan Baranowski, Heather Brooke, Stephen L. Morgan, Jessica McCutcheon
Applied Spectroscopy Reviews 46 (2011), 140-165.

Coating Effects on Mid-Infrared Reflection Spectra of Fabrics

Megan Baranowski, Heather Brooke, Jessica McCutcheon, Stephen L. Morgan, M. L. Myrick
Applied Spectroscopy 65 (2011), 876-84.

Multimode Imaging in the Thermal Infrared for Chemical Contrast Enhancement. Part 1: Methodology

Heather Brooke, Megan R. Baranowski, Jessica N. McCutcheon, Stephen L. Morgan, and Michael L. Myrick

- Anal. Chem. 82 (2010), 8412-20.
Multimode Imaging in the Thermal Infrared for Chemical Contrast Enhancement. Part 2:
Simulation Driven Design
Heather Brooke, Megan R. Baranowski, Jessica N. McCutcheon, Stephen L. Morgan, and
Michael L. Myrick
Anal. Chem. 82 (2010), 8421-26.
Multimode Imaging in the Thermal Infrared for Chemical Contrast Enhancement. Part 3:
Visualizing Blood on Fabrics
Heather Brooke, Megan R. Baranowski, Jessica N. McCutcheon, Stephen L. Morgan, and
Michael L. Myrick
Anal. Chem. 82 (2010), 8427-31.
Construction, Figures of Merit and Testing of a Single-Cell Fluorescence Excitation
Spectroscopy System
Laura S. Hill, Tammi L. Richardson, Luisa T.M. Profeta, Timothy J. Shaw, Christopher
J. Hintz, Benjamin S. Twining, Evelyn Lawrenz, Michael L. Myrick
Rev. Sci. Instrum. 81 (2010), article 013103 (13 pgs).
An Experiment in Physical Chemistry: Polymorphism and Phase Stability in Acetaminophen
(Paracetamol)
M.L. Myrick*, Luisa T.M. Profeta and Megan Baranowski
J. Chem. Ed. 87 (2010), 842-4.
A Study of Electric Field Standing Waves on Reflection Micro-spectroscopy of Polystyrene
Particles
Heather Brooke, B.V. Bronk, J. McCutcheon, S. Morgan, M.L. Myrick
Appl. Spectrosc. 63 (2009), 1293-302.
Birge-Spomer Estimation of the C-H bond dissociation energy in Chloroform using Infrared,
Near-Infrared, and Visible Absorption Spectroscopy – An experiment in Physical Chemistry
M.L. Myrick, A.E. Greer, A.A. Nieuwland, R.J. Priore, J. Scaffidi, D. Andreatta, and P.
Colavita
J. Chem. Educ. 85 (2008), 1276-78.
Sampling and Quantitative Analysis of Clean *B. subtilis* Spores at Sub-Monolayer Coverage by
Reflectance Fourier Transform Infrared Microscopy Using Gold-Coated Filter Substrates
H. Brooke, D.L. Perkins, B. Setlow, P. Setlow, B.V. Bronk, and M.L. Myrick
Appl. Spectrosc. 62 (2008), 881-8.