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Professional Preparation

A.B. Chemistry, Rutgers University (Douglass College)	1963
M.S. Chemistry, University of Illinois, Champaign-Urbana	1965
Ph.D. in Physical Organic Chemistry, University of Illinois, Champaign-Urbana	1967

Appointments

Professor Emeritus, Chemistry Department	2019-present
Adjunct Professor, College of Engineering, Tuskegee University	2007-present
Professor of Chemistry (Retired), Tuskegee University	2007-present
Professor and Head, Chemistry Department, Tuskegee University	1992-1999
Professor, Chemistry Department, Tuskegee University	1978-2007
Associate Professor, Chemistry Department, Tuskegee University	1974-1978
Assistant Professor, Chemistry Department, Tuskegee University	1967-1974
Visiting Professor, Macromolecular Research Institute, University of Michigan	1978-1980
Visiting Scholar, Chemistry Department, University of Illinois	1968-1969

Honors and Awards

- National Committee Member, Senior Chemists Committee, American Chemical Society, 2017 - present
- National Committee Member, Project SEED, American Chemical Society, 2007 to 2016
- Councilor, Auburn Section, American Chemical Society, 2006-2009
- Editorial Board Member, International Journal of Applied Chemistry, 2006 to present
- Quality Education for Minorities (QEM) recognition as “A Catalyst for Institutional Change,” presented in Washington, DC, February 2003
- Board of Trustees, Alabama Academy of Science, 1998 to present
- Faculty Achievement Award, 1993, Tuskegee University
- Russell W. Brown Distinguished Scientist Research Award, Sigma Xi, Tuskegee University, 1988

Publications

Selected Publications:

- “Renewability of polymer-based thin films for packaging”, Adriane G. Ludwick and Heshmat A. Aglan, in *Encyclopedia of Renewable and Sustainable Materials*, Choudhury, I., Ed., Elsevier, *in press*.
- “Corrosion analysis of electrical connectors using SEM,” J. Ford, H. Aglan, and A. Ludwick, *Microscopy and Microanalysis*, 23(S1), 2017, 2110-2111. doi:10.1017/S1431927617011217.
- “Effect of long-term exposure and delayed drying time on moisture and mechanical integrity of flooded homes,” H. Aglan, A. Ludwick, S. Kitchens, T. Amburgey, S. Diehl, H. Brazjani, *Journal of Flood Risk Management*, 2013, DOI:1111/jfr3.12062.
- “Green anti-scalant for cooling water systems,” A.M. Abdel-Gaber, B.A. Abd-El-Nabey, E. Khamis, H. Abd-El-Rhmann, H. Aglan, A. Ludwick, *International Journal of Electrochemical Science*, 7, 2012, 11930-11940.
- “Diffusion characteristics in building components of immiscible hydrocarbon-water mix from flooding,” H. Aglan, A. Ludwick, H. Borazjani, S. Kitchens, S. Diehl, T. Amburgey, *IJSCE*, 4(1) 2012, 1-11.

- “Thermo-mechanical behavior of epoxy composites modified with reactive polyol diluent and randomly-oriented amino-functionalized multi-walled carbon nanotubes,” Muhammad M. Rahman, Mahesh Hosur, Adriane G. Ludwick, Shaik Zainuddin, Ashok Kamar, Jonathan Trovillion, Shaik Jeelani, *Polymer Testing*, 31, **2012**, 777-784.
- “Evaluation of the corrosion barrier properties of nano-reinforced vinyl chloride/vinyl acetate coatings,” M. Calhoun, A. Ludwick, M. Mahmoud, H. Aglan, *Journal of Applied Polymer Science*, 19(1), **2011**, 15-22.
- “Influence of natural inhibitor, pigment and extender on corrosion of polymer,” A.M. Abdel Gaber, B.A. Abd-El Nabey, E. Khamis, O.A. Abdelattef, H. Aglan, A. Ludwick, *Progress in Organic Coatings*, 69, **2010**, 402-409.
- “Mechanical and moisture resistance performance of silver nanoparticles reinforced fish skin gelatin films,” H. Harding, A. Ludwick, T. Samuel, S. Young, H. Aglan NSTI, Nanotech 2010, ISBN 978-1-4398-34015-1, Vol. 1.
- “Usefulness of raw bagasse for oil absorption: A comparison of raw and acylated bagasse and their components,” Abd El-Aziz A. Said, Adriane G. Ludwick, Heshmat A. Aglan, *Bioresource Technology*, 100, **2009**, 2219-2222.
- “Effect of Bromine Substitution and Position on the Thermal Stability and Thermal Decomposition Kinetics of Brominated Resole Phenolic Resins,” M.E. Moore, M. Hosur, A.G. Ludwick, S. Jeelani, *Polymer Materials Science and Engineering Preprints*, Vol. 100, **2009**, 189-190.
- “Synthesis and thermal characterization of modified resole phenolic resins using thermogravimetric analysis,” Dereca T. Watkins, Mary Ellen Rogers, Adriane Ludwick, Melissa Reeves, abstract; presented at Historically Black Colleges and Universities (HBCU-UP) 2008 National Research Conference, October 23-26, 2008, Atlanta, Georgia.
- “Preparation and characterization of layered silicate nanocomposites base on resole phenolic resins and brominated resole phenolic copolymer resins,” M.E. Moore, M.V. Hosur, A.G. Ludwick, S. Jeelani, presented at the SAMPE Fall Technical Conference and Exhibition, September 8-11, 2008, Memphis, TN.
- "Degradation behavior of an ultraviolet and hygrothermally aged polyurethane elastomer: Fourier transform infrared and differential scanning calorimetry studies," Adriane Ludwick, Heshmat Aglan, Mohamed O. Abdalla, Maria Calhoun, *Journal of Applied Polymer Science*, 110(2), 2008, 712-718.
- “Evaluation of nanostructured polymeric coatings for steel corrosion protection,” A. Aglan, A. Ludwick, M. Reeves in *Nanotech 2007: Technical Proceedings of the 2007 NSTI Nanotechnology Conference and Trade Show*, Vol. 2, Chapter 2, pp. 72-75.
- "Formulation and Evaluation of Nanostructured Polymeric Coatings for Corrosion Protection," A. Aglan, A. Allie, A. Ludwick, L. Koons, *Surface and Coatings Technology*, 202, **2007**, 370-378.
- "Phenolic resins," A.G. Ludwick, M.O. Abdalla, *Encyclopedia of Chemical Processing*, 2006, 2089-2100.
- "Computational comparison of isotactic and syndiotactic polystyrene and their alkyl substituted analogs," D.L. Hudson, V.N. Moses, M.S. Reeves, D.R. Dean and A.G. Ludwick, *Polymer Materials Science and Engineering Preprints*, Vol. 94, 2006, 582-583.
- “Boron-modified phenolic resins for high performance applications,” M.O. Abdalla, A. Ludwick and T. Mitchell, *Polymer* 44, 7353 (2003).