

Professor Elamin Elhussein Ibrahim

The University of Texas Rio Grande Valley
Department of Chemistry
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EDUCATION

- PhD, Mississippi State University, 1995
Major: Chemistry
Dissertation Title: Analytical Investigations of Biomolecular Systems by Raman, Infrared, and Fluorescence Spectroscopy
- MS, The University of Alabama - Huntsville, 1990
Major: Analytical Chemistry
- B.Tech, Khartoum Polytechnic, 1979
Major: Chemistry

EMPLOYMENT

Professor, University of Texas Pan American (September 2013)

Professional

- Associate Professor, University of Texas-Pan American (September 2005 - August 2013)
- Assistant Professor, University of Texas-Pan American (September 1998 - August 2005)
- Lecturer/Lab Director, Mississippi State University (1997 - 1998)
- Assistant Professor, University of Qatar (1996 - 1997)

PUBLICATIONS

Conference Proceedings

- Elamin Ibrahim, Maximiliano Villarreal, Marlon Monayao, Brianna Adriana, Dorina Chipara, Karen Lozano, Mataz Alcoutlabi, James Hinthorne, and Mircea Chipara. *Spectroscopic investigations of PS-PVDF blends*. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY. 255, (2018)
- Elamin Ibrahim, Sarahi Casas, Dorina Chipara, James Hinthorne, and Mircea Chipara. *Investigations on polystyrene-C60 nanocomposites*. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY. 253, (2017)
- Mircea Chipara, Elamin Ibrahim, Dorina Chipara, and Julian Martinez. *Raman investigations on nanocomposites of colloidal silver in block copolymers*. ABSTRACTS OF PAPERS OF THE

AMERICAN CHEMICAL SOCIETY. 251, (2016)

Alin Chipara, Robert Vajtai, Pulickel Ajayan, Dorina Chipara, Elamin Ibrahim, James Hinthorne, Mircea Chipara, Rice Collaboration, *Estimation of the Thickness of the Interface in Polyoctenamer-Single Walled Carbon Nanotube Composites by Thermogravimetric Analysis*. APS Meeting Abstracts. (2014)

Jesus Saldana, Alin Chipara, Alejandro Castillo, James Hinthorne, Elamin Ibrahim, and Mircea Chipara. *On the Effect of TiO₂ Nanoparticles on the Crystallization of PEO*. APS Meeting Abstracts. (2014)

Elamin Ibrahim, Thomas Mion, James Hinthorne, Koorosh Famitafreshi, Steven Tidrow, Dorina Chipara, Karen Lozano, and Mircea Chipara. *Spectroscopic investigations on polyvinylidene fluoride-Fe₃O₄ nanocomposites*. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY. 247, (2014)

John Hamilton, Thomas Mion, Alin Chipara, Elamin Ibrahim, Karen Lozano, Dorina Chipara, Steven Tidrow, and Mircea Chipara. *Radiation Effects on Polypropylene Carbon Nanofibers*. APS Meeting Abstracts. (2010)

Rafael Villegas, Alin Cristian Chipara, Thomas Mion, John Hamilton, Ananta Adhikari, Elamin Ibrahim, Karen Lozano, Dorina Magdalena Chipara, Steven Tidrow, and Mircea Chipara. *Radiation-Induced Changes of Thermal Properties of Polypropylene Carbon Nanofibers Composites*. APS Meeting Abstracts. (2010)

Elamin Ibrahim, Dorina Chipara, Richard Wilkins, Alin Chipara, Karen Lozano, and Mircea Chipara. *Spectroscopic investigations on polyethylene-functionalized single wall carbon nanotube composites*. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY. 237, (2009)

Journal Articles

Mircea Chipara, Dorina Chipara, and Elamin Ibrahim. Raman Investigations on PS-PERB-PS--Graphene Nanocomposites. *Bulletin of the American Physical Society*. (2018)

Jorge Cisneros, Dorina Chipara, Elamin Ibrahim, and Mircea Chipara. Raman Investigations on PVC-Functionalized Single Wall Carbon Nanotube Composites.. *Bulletin of the American Physical Society*. 62, (2017)

Mircea Chipara, John Hamilton, Alin Chipara, Tom George, Dorina Chipara, Elamin Ibrahim, Karen Lozano, David Sellmyer, Fourier transform infrared spectroscopy and wide-angle X-ray scattering: Investigations on polypropylene-vapor-grown carbon nanofiber composites. *Journal of Applied Polymer Science*. 125, no. 1 (2012): 353–360.

Mircea Chipara, Jessica Cruz, Edgar Vega, Jorge Alarcon, Thomas Mion, Dorina Chipara, Elamin Ibrahim, Steven Tidrow, and David Hui. Polyvinylchloride-single-walled carbon nanotube composites: Thermal and spectroscopic properties. *Journal of Nanomaterials*. 2012, (2012): 15.

Mircea Chipara, Jessica Cruz, Edgar Vega, Jorge Alarcon, Thomas Mion, Dorina Chipara, Elamin Ibrahim, Steven Tidrow, and David Hui. Polyvinylchloride-Single-Walled Carbon Nanotube Composites: Thermal and Spectroscopic Properties. *Journal of Nanomaterials*. (2012)

Elamin Ibrahim, Dorina Chipara, Ram Thapa, Karen Lozano, and Mircea Chipara. Raman spectroscopy of isotactic polypropylene-halloysite nanocomposites. *Journal of Nanomaterials*. 2012, (2012): 12.

Mircea Chipara, John Hamilton, Alin Cristian Chipara, Tom George, Dorina Chipara, Elamin Ibrahim, Karen Lozano, and David Sellmyer. FTIR and Wide-Angle X-Ray Scattering Investigations

on Polypropylene - Vapor Grown Carbon Nanofibers Composites. COMMERCE PLACE, 350 MAIN ST, MALDEN 02148, MA : *JOURNAL OF APPLIED POLYMER SCIENCE/WILEY-BLACKWELL*. 125, no. 1 (July (3rd Quarter/Summer) 2012): 353-360.

Other

Yasar Tasnif, Elamin Ibrahim, Robert Perez, and Adrian Sandoval. Comparing Understandability and Actionability of English and Spanish Patient Hypertension Handouts Utilizing the AHRQ PEMAT. *American Journal of Pharmaceutical Education*. (2014)

Elamin Ibrahim, P. B. Oldham, D. L. Stokes, T. Vo-Dinh, and B. H Loo. Comparison of Enhancement Factors for Surface Enhanced Raman Spectroscopy using Visible and near-IR Excitations. *J. Mol. Struct.* 735-736C, (2005): 69-73.

Z. Chen, B. H. Loo, Y. Ma, Y. Cao, Elamin Ibrahim, and J. Yao. Photochromism of Novel Molybdate-Alkylamine Composite Thin Films. *ChemPhysChem.* 5, no. 7 (July (3rd Quarter/Summer) 2004): 1020-1026.

PRESENTATIONS

Elamin Ibrahim, Maximiliano Villarrea, Mircea Chipara, Dorina Chipara, Brianna Arriana, Marlon Monayao, Karen Lozano, Mataz Alcoutlabi, James Hinthorne, "SPECTROSCOPIC INVESTIGATIONS OF PVDF-PS BLENDS," 255th ACS National Meeting, New Orleans, LA, March 18-22, 2018., American Chemical Society, New Orleans. (March 19, 2018)

Elamin Ibrahim, Mircea Chipara, Dorina Chipara, "Raman Investigations on PVC-Functionalized Single Wall Carbon Nanotube Composites.," APS March Meeting Abstracts 2017, Applied Physics Society, Los Angeles, CA. (March 9, 2018)

Elamin Ibrahim. "Quality control of drinking water in the State of Khartoum versus the requirements of the World Health Organization," The Sudanese Standards and Metrology Organization , The Sudanese Standards and Metrology Organization , Khartoum, Sudan, Africa. (May 30, 2017)

Elamin Ibrahim. "Harmful health problems and impact of cyanotoxins produced by Blue and Green-blue Algae associated with drinking water from the Nile River in Khartoum State," College of Economical, Social and Environmental Studies, University of Medical and Technological Sciences, Khatoum, Sudan, Africa, College of Economical, Social and Environmental Studies, University of Medical and Technological Sciences, Khatoum, Sudan, Africa, Khartoum, Sudan. (May 16, 2017)

Elamin Ibrahim. "Removal of Cyanobacterial Toxins from Khartoum State Drinking Water by non-chemical Procedures," Khartoum State Water Corporation , Khartoum State Water Corporation , Khartoum, Sudan, Africa. (May 10, 2017)

Elamin Ibrahim, "Investigations on Polystyrene – C60 Nanocomposites," 253rd ACS National Meeting in San Francisco, California to be held April 2-6, 2017., American Chemical Society, San Francisco, California . (April 5, 2017)

Elamin Ibrahim, Sarahi Casas, Marlon Monayao, Dorina Chipara, and Mircea Chipara. "Spectroscopic Investigations on Polystyrene-C60 Nanocomposites," 1st UTRGV College of Sciences Scientific Conference, UTRGV College of Sciences Scientific Conference, UTRGV. (March 31, 2017)

Jorge Cisneros, Dorina Chipara, Elamin Ibrahim, and Mircea Chipara. "Raman Investigations on PVC-Functionalized Single Wall Carbon Nanotube Composites," March American Physical Society Meeting, American Physical Society , New Orleans, Louisiana, USA. (March 2017)

Jorge Cisneros, Elamin Ibrahim, and Mircea Chipara. "Microwave Irradiation on Graphene Dispersed Within Polymeric Matrices," March American Physical Society Meeting, American Physical Society, Baltimore, Maryland, USA.. (March 2016)

Andres Salgado, Robert Jones, Samantha Ramirez, Elamin Ibrahim, James Hinthorne, and Mircea Chipara. "PVC-OH Functionalized SWCNT Nanocomposites," March American Physical Society Meeting, American Physical Society, Baltimore, Maryland, USA.. (March 2016)

Alfonso Salinas, Charles Cartwright, Kevin Newcombe, Mircea Chipara, Elamin Ibrahim, James Hinthorne, Dorina Chipara, and Karen Lozano. "PEO-MWCNTs Nanocomposites: The Effect of the Nature of Solvent on the Morphology and Physical Properties of Nanocomposites," March American Physical Society Meeting, American Physical Society, San Antonio, Texas, USA. (March 2015)

Arifur Rahman, Eric Baer, Alin Chipara, Robert Vajtai, Pullickel Ajayan, James Hinthorne, Elamin Ibrahim, and Mircea Chipara. "Physical Properties of PC-PMMA Multilayers," March American Physical Society Meeting, American Physical Society, San Antonio, Texas, USA. (March 2015)

Dorina Chipara, Oscar Guerrero, Alin Chipara, Alejandra Gonzalez, Brian Yust, Elamin Ibrahim, James Hinthorne, and Mircea Chipara. "Raman and Wide Angle X-Ray Studies on Polystyrene-Block Polyisoprene-Block Polystyrene - Graphene Nanocomposites," March American Physical Society Meeting, American Physical Society, San Antonio, Texas, USA. (March 2015)

Jerry Contreras, Elamin Ibrahim, Jason Parsons, Dorina Chipara, James Hinthorne, and Mircea Chipara. "Raman, UV-Vis, and Wide Angle X-Ray Scattering Investigations on Polyvinylidene Fluoride { Fe₃O₄," March American Physical Society Meeting, American Physical Society, San Antonio, Texas, USA. (March 2015)

Alin Chipara, Robert Vajtai, Pullickel Ajayan, Dorina Chipara, Elamin Ibrahim, James Hinthorne, and Mircea Chipara. "Estimation of the Thickness of the Interface in Polyoctenamer- Single Walled Carbon Nanotube Composites by Thermogravimetric Analysis," March American Physical Society Meeting, American Physical Society, Denver, Colorado, USA. (March 2014)

Jesus Saldanas, Alin Chipara, Alejandro Castillo, James Hinthorne, Elamin Ibrahim, and Mircea Chipara. "On the Effect of TiO₂ Nanoparticles on the Crystallization of PEO," March American Physical Society Meeting, American Physical Society, Denver, Colorado, USA. (March 2014)

Dorina Chipara, Alma Perez, Karen Lozano, Elamin Ibrahim, Jahaziel Villarreal, Alfonso Salinas, and Mircea Chipara. "Self-healing of polymeric materials: The effect of the amount of DCPD confined within microcapsules," March American Physical Society Meeting, American Physical Society, Baltimore, Maryland, USA. (March 2013)

P Ajayan, A Chipara, Elamin Ibrahim, and Mircea Chipara. "Raman spectroscopy of carbonaceous materials." International Materials Research Congress, Cancun, Mexico. (August 14, 2011)

He Huang, Hailan Xu, Yun Zhai, A Chipara, R Villegas, D Hui, Elamin Ibrahim, and Mircea Chipara. "Raman spectroscopy of polyethylene oxide-anatase nanocomposites." International Materials Research Congress, Cancun, Mexico. (August 14, 2011)

T Mion, A Chipara, R Villegas, Steven Tidrow, K Lozano, Dorina Chipara, Elamin Ibrahim, and Mircea Chipara. "Raman and wide-angle x-ray spectroscopy on polyoctenamer-carbon nanotubes composites." International Materials Research Congress, Cancun, Mexico. (July 14, 2011)

Elamin Ibrahim, Dorina Chipara, Richard Wilkins, Alin Chipara, Karen Lozano, and Mircea Chipara. The 237th American Chemical Society National Meeting and Exposition, Salt Lake City, UT. (March 26, 2009)

C Ramirez, J Hamilton, A Villarreal, Elamin Ibrahim, and Mircea Chipara. "Spectroscopic analysis on microwave irradiated carbon nanotubes and polymer-carbon nanotube composites." HESTEC 2008, Edinburg, TX. (2008)

Christopher Ramirez, John Hamilton, Alin Chipara, A. J. Villarreal, Elamin Ibrahim, and Mircea Chipara. "Spectroscopic Analysis of Microwave Irradiated Carbon Nanotubes and Polymer-carbon Nanotubes Composites," Hispanic Engineering Science & Technology Week, The University of Texas-Pan American, Edinburg, TX. (September 2008)

TEACHING

Courses Taught

Analytical Chemistry
Analytical Chemistry Lab
Chem for Engineers Lab
Chemistry Capstone
Chemistry Problems I
Chemistry Problems II
Chemistry Seminar
Chemistry for Engineers
General Chemistry I
General Chemistry I Lab
General Chemistry II
General Chemistry Lab I
General Chemistry Lab II
Instrumental Analysis
Instrumental Analysis Lab
Instrumental Analyst Lab
Master's Project II
Seminar
Seminar I
Seminar II
Seminar III
Sp Top in Chem Education
Sp Top in Physical Chem
Thesis I
Thesis II

SERVICE

Department Service

- Other, Affirmative Action Advocate. (September 1, 2017 - August 31, 2018)
- Committee Member, Annual Faculty Review Evaluation Committee. (September 1, 2017 - August 31, 2018)
- Other, Approved for teaching graduate courses. (September 1, 2017 - August 31, 2018)
- Committee Member, Chemistry Curriculum Committee. (September 1, 2017 - August 31, 2018)
- Committee Member, General Chemistry Committee. (September 1, 2017 - August 31, 2018)
- Committee Member, Promotion to Full Professor Committee . (September 1, 2017 - August 31, 2018)
- Committee Member, Staff evaluation Committee. (September 1, 2017 - August 31, 2018)
- Committee Member, Strategic Planning/Program Review Committee. (September 1, 2017 - August 31, 2018)
- Faculty Advisor, Student Advising and recruitment. (September 1, 2017 - August 31, 2018)
- Committee Member, Tenure & Promotion. (September 1, 2017 - August 31, 2018)
- Faculty Mentor, Write letters of recommendations for students. (September 1, 2017 - August 31, 2018)

College Service

- Other, Affirmative Action for College . (September 1, 2017 - August 31, 2018)
- Committee Member, Member of the Center for Subtropical Studies. (September 1, 2017 - August 31, 2018)

University Service

- Faculty Senate, Faculty Senator. (September 1, 2017 - August 31, 2018)

Professional Service

- Member , American Chemical Society Local Chapter , McAllen , (September 1, 2017 - August 31, 2018)
- Member , American Chemical Society member, National membership , Washington , (September 1, 2017 - August 31, 2018)
- Program Organizer , Global Summit on Chemistry and Chemical Engineering (GSCCE-2018) which is during February 26-27, 2018 held at Abu Dhabi, UAE , Abu Dhabi, UAE . (September 1, 2017 - August 31, 2018)
- Member , Society for Applied Spectroscopy, National membership , Frederick , (September 1, 2017 - August 31, 2018)
- Reviewer, Journal Article , SURFIN-D-17-00162, Surfaces and Interfaces – Elsevier (August 2017)

(September 1, 2017 - August 31, 2018)

Professional Memberships

American Chemical Society (ACS)

Society of Applied Spectroscopy (SAS)

Local Chapter of American Chemical Society (ACS) (August 1998)