

Noureddine ABIDI, Ph.D.

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Dr. Abidi is Leidigh endowed Professor in the Department of Plant and Soil Science and Managing Director of the Fiber and Biopolymer Research Institute at Texas Tech University. He holds a “Habilitation à Diriger des Recherches” from the University of Haute Alsace in France and a Ph.D. from the University of Montpellier II in France. Dr. Abidi has generated 85 refereed journal publications (+4 in review), 2 books, 15 book chapters, more than 145 conference papers, 1 patent, 2 pending patents, and 6 invention disclosures. Abidi has served as PI or co-PI on funded research grants totaling more than \$16,004,051 (amount credited to Abidi: \$6,109,519). Abidi developed and teaches two graduate courses: PSS5371 “Structure and Functionalization of Cotton Fibers” and PSS5373 “Biopolymers and Bioproducts”. He participates in team-teaching of PSS5370 “U.S. & Global Cotton Fiber-Textiles Industries”. He serves as Associate Editor of the J. of Cotton Science. He served as the Secretary of the Division of Cellulose & Renewable Materials/American Chemical Society. He is a member of the American Chemical Society, the Fiber Society, the North American Thermal Society, American Association of Textile Chemists and Colorists, and the American Association for the Advancement of Science. He is/was advisor to 16 Masters, 9 PhDs, and 3 postdoctoral fellows.

PROFESSIONAL EXPERIENCE

- **9/2018-present:** Leidigh Endowed Professor, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX.
- **1/2017-present:** Managing Director, Fiber and Biopolymer Research Institute, Texas Tech University, Lubbock, TX.
- **1/2017-8/2018:** Leidigh Endowed Associate Professor, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX.
- **1/2016-12/2018:** Alternate Councilor for the Cellulose & Renewable Materials Division, American Chemical Society.
- **1/2016-6/2016:** Fulbright US. Scholar, Ghent University, Belgium.
- **9/2014-9/2015:** Graduate Program Leader, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX.
- **9/2014-12/2016:** Associate Director, Fiber and Biopolymer Research Institute, Texas Tech University, Lubbock, TX.
- **9/2012-8/2018:** Associate Professor, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX.
- **1/2010-12/2012:** Secretary of the Cellulose & Renewable Materials Division, American Chemical Society.

- **2/2010-12/2013:** Anselme Payen Award Judging Committee of the Division of Cellulose and Renewable Materials, American Chemical Society.
- **9/2009-8/2012:** Assistant Professor, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX.
- **9/2006-8/2009:** Research Assistant Professor, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX.
- **9/2000-8/2008:** Head of Biopolymer Research, Fiber and Biopolymer Research Institute (formerly International Textile Center), Texas Tech University, Lubbock, TX.
- **12/2007-Present:** Member Graduate Faculty, University of Haute-Alsace, France.
- **9/2000-8/2008:** Head of Finishes/Chemical Research, International Textile Center, Texas Tech University, Lubbock, TX.
- **9/2006-Present:** Member Graduate Faculty, Department of Plant and Soil Science Texas Tech University, Lubbock, TX.
- **9/2000-8/2004:** Adjunct Graduate Faculty, Department of Plant and Soil Science, Texas Tech University, Lubbock, TX.
- **9/1999-8/2000:** Research Associate, International Textile Center, Texas Tech University, Lubbock, TX.
- **4/1998-7/1999:** Postdoctoral Research Fellow, Materials and Membrane Processes Laboratory, National School of Chemical Engineering of Montpellier, Montpellier (France).
- **1/1997-3/1998:** Postdoctoral Research Fellow, Laboratory of Physical Chemistry of Condensed Matter, University of Montpellier II, Montpellier (France).
- **10/1993-10/1996:** Ph.D. research activities, Laboratory of Physical Chemistry of Condensed Matter, University of Montpellier II, Montpellier (France).
- **1/1993-7/1993:** Research Associate, Laboratory of RAMAN Spectroscopy, University of Montpellier II, Montpellier (France).

EDUCATION

- **H.D.R Habilitation à Diriger les Recherches** (*accreditation to supervise research*), French Diploma required to be Full Professor in French Universities). **Engineering Science. 2007.** University of Haute Alsace, Mulhouse (France).
- **Ph.D. Theoretical, Physical, and Analytical Chemistry. 1996.** University of Montpellier II (France).
- **D.E.A. (Diploma of Applied Advanced Studies). Polymers, Interfaces, and Amorphous States. 1993.** University of Montpellier II (France).
- **M.S. Chemistry (Physical Chemistry, Organic Chemistry). 1992.** University of Med I, Faculty of Sciences Oujda (Morocco).
- **B.S. Chemistry. 1991.** University of Med I, Faculty of Sciences Oujda (Morocco).
- **DEUG A (Diploma of Higher Education). Physics and Chemistry. 1990.** University of Med. I, Faculty of Sciences Oujda (Morocco).

LANGUAGES:

- **Arabic:** Native Language
- **French:** Fluent
- **English:** Fluent

AWARDS

1. Texas Tech University Chancellor's Award of Excellence (2002).
2. CASNR Research Award nominee (2011).
3. CASNR Research Award (2012).
4. CASNR Chancellor's Council Distinguished Research Award nominee (2012).
5. Texas Tech University Chancellor's Council Distinguished Research Award (2012).
6. CASNR Bernie E. Rushing, Jr. Faculty Distinguished Research Award nominee (2012).
7. Texas Tech University Outstanding Research Award (2013).
8. Texas Tech University President's Mid-Career Award (2015).
9. The Association for Women in Communications Award, Lubbock Chapter (2015).
10. Fulbright US Scholar Award (2016).
11. Texas Tech University Integrated Scholar Award (2017).
12. Texas Tech University President's Leadership Institute (2016-2017).
13. Leidigh Endowed Associate Professor (2017).

HONORS

1. Finalist for 2017-2018 Class of AAAS-Lemelson Ambassadors

EDITORIAL DUTIES

1. **9/2007-Present:** Associate Editor, J. Cotton Science-Textile Technology Section.
2. **1/2011-Present:** Member of the Editorial Board of the J. Materials and Environmental Science, ISSN: 2020-2508.
3. **9/2014-Present:** Member of the Editorial Board of the Algerian J. Natural Products, ISSN: 2553-0391.
4. **9/2014-Present:** Member of the Editorial Board of the Moroccan J. of Chemistry, ISSN: 2351-812X.
5. **9/2017-Present:** Editor of Cotton and Textile Topics (new journal).

INSTITUTIONAL AND PROFESSIONAL SERVICE

Texas Tech University:

1. Member of the Selection Committee for the Chancellor's Council Distinguished Research Award – STEM. October 2014
2. Member of the Vice President of Research Internal Advisory Committee
3. Reviewer for the Office of Research Services limited submissions.
4. Graduate School Scholarships and Fellowships Reviewer 2014, 2015, 2016
5. Graduate Dean's Representative Monique LeMieux Dissertation 2015
6. Member of the Search Committee for the Assistant Professor Position in Soft Matter, Department of Chemistry and Biochemistry, Texas Tech University, 2016.

College of Agricultural Sciences and Natural Resources:

1. Member of CASNR International Activities Committee, 2010 to 2013.
2. Chair of the CASNR International Activities Committee, 2013 to 2014.

3. Member of the Search Committee for the Chairperson position for the Department of Plant and Soil Science, 2013.

Department of Plant and Soil Science:

1. Member of the Website Improvement Committee, 2006-2009.
2. Member of the Curriculum and Academic Programs Committee 2006-2009.
3. Chair of the Ad-hoc Committee on Bioproducts 2008-2009.
4. Member of the Strategic Planning Committee 2009.
5. Member of the Search Committee for the Assistant Professor position of Crop Physiology, 2010.
6. Chair of the Search Committee for the Assistant/Associate Professor position of Cell wall biology/biochemistry, 2012.
7. Member of the Search Committee for the Assistant Professor position of Bioproducts, 2012.
8. Member of the Search Committee of the Associate/Full Professor of Genomics, 2014-2015.
9. Chair of the Graduate Research Committee, 2014-Present.
10. Member of the recruitment committee, 2014-Present.
11. Chair of the Mentoring Committee for Dr. Venugopal Mendu.
12. Chair of the Mentoring Committee of Dr. Brendan Kelly.

Membership in Professional Societies:

1. American Association of Textile Chemists and Colorists (AATCC), 2000-Present.
2. American Chemical Society (ACS), 2000-Present.
3. Cellulose and Renewable Materials Division of the American Chemical Society, 2000-Present.
4. The Fiber Society, 2006-Present.
5. North American Thermal Analysis Society (NATAS), 2009-2013.
6. International technical Committee for Textile Care (ICTC), 2000-2010.
7. AATCC RA 43 and the AATCC RA 106 committees, 2000-Present.
8. Secretary of the Cellulose and Renewable Materials Division/American Chemical Society, 12/2010-12/2012.
9. Member of AUTEX (Association of Universities for Textiles), 2016-Present.
10. American Association for the Advancement of Science, 2017-Present.

Symposia organized/moderated:

1. Organizer and Chair of the “Fibers and Biopolymers” symposium during the 37th Annual Meeting of the North American Thermal Analysis Society, Lubbock, TX, September 21- 23, 2009.
2. Chair of the symposium “Deconstructing the cell wall structure” during the 239th American Chemical Society Meeting, March 21-25, 2010, San Francisco, CA.
3. Organizer and Chair of the “Biomaterials/Bioinspired Materials” symposium during the 40th Annual Meeting of the North American Thermal Analysis Society, Orlando, FL, August 12-15, 2012.
4. Chair of the session Biofuels, Algal Bioproducts, Conventional and Emerging Bioproducts, during the Global Biofuels and Bioproducts Summit, San Antonio, TX, November 19-21, 2012.
5. Attend the American Chemical Society Leadership Institute, Dallas January 20-21, 2012.

6. Co-organizer and co-chair of the symposium “Current applications of spectroscopic techniques to investigate biopolymer structure and transformation” during the 247th American Chemical Society Meeting & Exposition, March 16-20, 2014, Dallas, TX, USA
7. Organizer and Chair of the symposium “Cellulose dissolution: new solvents and mechanisms” during the 249th American Chemical Society Meeting and Exposition, March 22-26, 2015, Denver, CO, USA.
8. Member of the Organizing Committee of the International Conference and Exhibition on Biopolymers and Bioplastics, August 10-12, 2015, San Francisco, CA, USA.
9. Chair of a session on Biomaterials during the 12th Renewable Resources and Biorefineries Conference, May 30-31, June 1, 2016, Ghent, Belgium.
10. Member of the Organizing Committee of the International Conference and Exhibition on Biopolymers and Bioplastics, September 12-14, 2016, San Antonio, TX, USA.
11. Co-Chair a session on Biomaterials and Biopolymers during the International Conference and Exhibition on Biopolymers and Bioplastics, September 12-14, 2016, San Antonio, TX, USA.
12. Chair of a session on Bio-based gels & porous materials/biopolymer hydrogels during the 253rd American Chemical Society Meeting and Exposition, April 2-6, 2017, San Francisco, CA.
13. Member of the Scientific Committee of International Conference on Intelligent Textiles and Mass Customization, October 16-18, 2017, Ghent, Belgium.
14. Organizer and Chair of the symposium “Cellulose” during the 73rd Annual Southwest Regional Meeting of the American Chemical Society, October 29-November 1, 2007, Lubbock, TX, USA.
15. Organizer and Chair of the symposium “Analytical Biochemistry” during the 73rd Annual Southwest Regional Meeting of the American Chemical Society, October 29-November 1, 2007, Lubbock, TX, USA.

Proposals Review for Government Agencies

1. **United States Department of Agriculture** – Cooperative State Research, Education & Extension Service.
2. **National Science Foundation Graduate Fellowship Program:** 28 applications were reviewed and ranked (2016).
3. **National Science Foundation Graduate Fellowship Program:** served on the Virtual Panel Review (2016).
4. **University of Leuven, Research Council KULeuven:** 1 proposal reviewed, March 2017.
5. **Austrian Academy of Science:** 1 proposal reviewed, January 2017.

Articles Review for Journals

- Journal of Cotton Science • American Association of Textile Chemists and Colorists Review • Journal of Applied Polymer Science • Textile Research Journal • Canadian Journal of Chemical Engineering • Applied Surface Science • Carbohydrate Research • Colloids and Surfaces A: Physicochemical and Engineering Aspects • Journal of

Engineered Fibers and Fabrics • Journal of Thermal Analysis and Calorimetry • ACS Applied Materials & Interfaces • Progress in Organic Coatings • Fibers and Polymers • Polymers; Biochemical Engineering Journal • The Journal of Textile Institute • BioResources • Journal of Polymer Science Part B: Polymer Physics • Thermochemica Acta • Cellulose.

PATENTS

1. E. Hequet and N. Abidi. Cotton Stickiness Evaluation by Means of Multi-Temperature Testing. US 6,520,007 B2 Feb. 18, 2003.
2. N. Abidi and Y. Hu. Cotton fiber dissolution and regeneration and 3D printing of cellulose based conductive composites. 15/355,480, filling date November 18, 2016 (Pending).
3. N. Abidi, E. Quitevis, V. Thalanganarachchige, N. Dissanayake. Dissolution of cellulose in ionic liquids. 62/618,274 filling date January 17, 2018 (Pending).

INVENTION DISCLOSURES

1. N. Abidi and E. Hequet. Whitefly honeydew detection by means of FT-IR second derivative spectra analysis. TTU D-0414.
2. N. Abidi and E. Hequet. Detection and Mapping of Stickiness Contamination in Cotton by Means of Mid-Infrared Spectroscopy. TTU D0456.
3. Tim Dallas, Eric Hequet, N. Abidi. Vapor impregnation of functionalized nano-particles into existing textiles. TTU D-0651.
4. Y. Hu, N. Abidi. Multistage separation of cellulose nanocrystals. Submitted March 17, 2015, TTU D-1178, the initial review result: patentable.
5. P. Tharaka, N. Abidi. CdTe-GSH quantum dots-cellulose/chitin hybrid materials. Submitted June 10, 2015.
6. N. Abidi, Y. Hu. 3D printing cotton cellulose based conductive composites. TTU D-1166. Provisional Patent # 62/256,837. Filing date 11/18/2015.

TEACHING

- **“PSS 5371: Structure and Functionalization of Cotton Fibers”** (graduate course, 3 credits, 100%).
Course description: This course focuses on the structure, characterization, and functionalization of cotton fibers. Parameters and properties that affect the quality of the finished material are discussed. Different techniques used to functionalize the cotton fabric and create “smart textiles” are explained and evaluated.
- **“PSS 5373: Biopolymers and Bioproducts”** (graduate course, 3 credits, 100%).
Course description: A wide range of naturally occurring polymers (biopolymers) derived from renewable resources are available for material applications. Bioproducts are defined as products that are composed in whole or in significant part of renewable agricultural materials. This course is focused on the chemistry of biopolymers (Cellulose, Lignin, Hemicellulose, Starch, Chitin, Chitosan, Alginates, Soy proteins, plant-based fuels, plant-based polyesters, etc.) and their transformation to bio-based products (Bioethanol, Biodegradable plastics, Surfactants, etc...). A review of the analytical techniques used to characterize biopolymers and bioproducts is also performed.

- **“PSS 5377: Cotton Fiber: Genotype to Phenotype Characterization”** (graduate course, 3 credits, 25%). I teach cotton fiber structure and analytical techniques applied for cotton fiber development research).
Course description: This course provides a fundamental understanding of the complex relationships that exist between cotton fiber morphogenesis (i.e., the biogenesis of the primary and the secondary cell wall), the genetics of fiber development and fiber quality, fiber macro- and microstructures (such as number of twists, reversals, fiber perimeter, orientation of the fibrils, degree of crystallinity, degree of polymerization, molecular weight and its distribution), and fiber physical and mechanical properties (such as fiber maturity and strength).
- **“PSS 5370: US and Global Cotton Fiber – Textile Industries”** (graduate course, 3 credits, 33%). I teach 2 hours on the Chemical Processing of Cotton Fibers).
Course description: The purpose of this course is to introduce students to the problems, concepts and solutions integral to modern natural fiber production, development and research by examining factors affecting cotton production, processing, marketing, and utilization as an industrial raw material for textile manufacturing. As the course progresses, the student will be exposed to intensive instruction in a variety of economic, practical, biological and mechanical processes central to the modern cotton and fiber global industries.

Teaching Evaluations (average of last 5 years):

New evaluation form: Fall 2014 - Spring 2017

	Number of Courses	Number of Students	Question #1 Mean	Question # 2 Mean	Question #3 Mean
N. Abidi	5	57	4.78	4.75	4.76
PSS			4.56	4.47	4.43
CASNR			4.54	4.45	4.44
TTU			4.69	4.68	4.47

Scale for evaluations: 5 = excellent; 4 = outstanding; 3 = good; 2 = fair; 1 = poor.

Old evaluation form: Fall 2012 - Spring 2014

	Number of Courses	Number of Students	Question #1 Mean	Question # 2 Mean	Question #4 Mean	Question #7 Mean
N. Abidi	4	45	4.39	4.46	4.55	4.35
PSS			4.49	4.50	4.58	4.42
CASNR			4.43	4.43	4.52	4.35
TTU			4.56	4.55	4.68	4.57

Scale for evaluations: 5 = excellent; 4 = outstanding; 3 = good; 2 = fair; 1 = poor

DIRECTION OF GRADUATE STUDENTS

Research Training

1. **Alexander Major**, Research Training (1999), Materials and Membrane Processes Laboratory, National School of Chemical Engineering of Montpellier (France) (Co-chair).
2. **Barthelemy Geraldine**, Research Training M.S. in Chemistry (1999), Materials and Membrane Processes Laboratory, National School of Chemical Engineering of Montpellier (France) (Co-chair).
3. **Bauzon Veronique**, Research Training M.S. in Chemistry (1999), Materials and Membrane Processes Laboratory, National School of Chemical Engineering of Montpellier (France) (Co-chair).
4. **Sowmitri Tarimala**, Ph.D. student Research Training, International Textile Center, Texas Tech University (January 2005 – June 2006). The research work was focused on the functionalization of the cotton fabric surface using new approach based on the sol-gel process. The new functions imparted to the cotton fabric using this process are antibacterial properties and UV protection properties.
5. **Neha Kothari**, Summer Internship, International Textile Center, Texas Tech University (June-August 2006). The research work was focused on cotton fiber structural characterization using Universal Attenuated Total Reflectance Fourier Transform Infrared.
6. **Natalia Castillo**, PSS 5370 Fall 2008. “Halophytic behavior and Salt stress”.
7. **Crystal Allen**, PSS 5001 Spring 2009. “Application of FTIR in Forensic Science”.
8. **Ashley Ebeling**, PSS 5001 Spring 2009. “Application of SEM in Forensic Science”.

M.S.

Completed:

1. **Mohamed Siaj**, Preparation of hybrid organic-inorganic membranes. Materials and Membrane Processes Laboratory, National School of Chemical Engineering of Montpellier (France). Completed in July 1999 (Co-Chair).
2. **Neha Kothari**, Multidisciplinary approach to study cotton fiber development. Department of Plant and Soil Science, Texas Tech University. Completed in October 24, 2007 (Chair). Won the 1st place during the 2009 Beltwide Cotton Conferences Student Competition.
3. **Payam Aminayi**, Imparting super hydro/oleo phobic properties to cotton fabric by means of Molecular Vapor Deposition. Department of Plant and Soil Science, Texas Tech University. Completed in June 20, 2011 (Chair).
4. **Shail Shah**, Cellulose-based aerogels. Department of Plant and Soil Science, Texas Tech University. Completed in June 20, 2011 (Chair). Won the 2nd place during the 10th Annual Graduate Student Research Poster Competition, Texas Tech University.
5. **Sanjit Acharya**, Dyeing properties of cotton fibers with improved reactivity. Department of Plant and Soil Science, Texas Tech University. Completed July 2, 2012. (Chair).

6. **Shanshan Li**, Preparation and characterization of cellulose-based aerogels. Department of Plant and Soil Science, Texas Tech University. Completed March 25, 2013 (Chair).
7. **Zhuanzhuan Ma**, Investigating the impact of drought stress on cotton fiber properties. Department of Plant and Soil Science, Texas Tech University. Completed May 9, 2013 (Chair).
8. **Herath Maheshika**, Cellulose structural organization during different phases of fiber development investigated by X-Rays Diffraction. Department of Plant and Soil Science, Texas Tech University. Completed October 17, 2013 (Chair).
9. **Sumedha Priyadarshani Liyanage**, Chemical and physical characterization of galactomannans extracted from guar seeds. Department of Plant and Soil Science, Texas Tech University Completed October 18, 2013 (Chair). Won the PSS outstanding Master Thesis Award.
10. **Benjamin Murphy**, Crop Science at a Distance, Department of Plant and Soil Science, Texas Tech University. Completed October 10, 2014 (Chair).
11. **Shayamalee Abeysinghe**, Cotton fabric functionalization to impart wrinkle free properties, Department of Plant and Soil Science, Texas Tech University. Completed October 15, 2014 (Chair).
12. **Tanya Jackson**, Organic-Inorganic hybrid aerogels, Department of Plant and Soil Science, Texas Tech University. Completed March 13, 2015 (Chair). Won the 1st Place during the 2014 Texas Tech Annual Biological Sciences Symposium, March 28-29th, 2014.
13. **Mishon Hopkins**, Crop Science at a Distance, Department of Plant and Soil Science, Texas Tech University. Completed November 24, 2015, graduated May 2016 (Chair).
14. **Prakash Parajuli**, FTR microspectroscopy study of compositional changes in biomolecules in biological samples. Crop Science, Department of Plant and Soil Science, Texas Tech University. Completed May 25, 2017 (Chair).
15. **Moss Cameron**, Crop Science at a Distance, Department of Plant and Soil Science, Texas Tech University. Completed June 23, 2017 (Chair).

In progress:

1. **Shaida Rumi**, Crop Science, Department of Plant and Soil Science, Texas Tech University.
2. **Tanjim Hossain**, Crop Science, Department of Plant and Soil Science, Texas Tech University.

Ph.D.

Completed:

1. **Benzina Houda**, Micro-structural and morphological characterization of cotton fibers and implications in elongation and tenacity of the fibers. This work was done in collaboration with the University of Haute Alsace (Mulhouse, France). Completed December 2008 (Co-chair).
2. **Luis Cabrales**, Analytical and spectroscopic approaches to study cellulose macromolecules in developing cotton fibers. Department of Plant and Soil Science, Texas Tech University. Completed October 19, 2011 (Chair).

3. **Rajeev Rajbhandari**, Parameters affecting dye-uptake of cotton fibers. Department of Plant and Soil Science, Texas Tech University. Completed October 11 2013 (Chair).
4. **Tharaka Wansapura Poorna**, Cellulose and chitin based composites: preparation and characterization. Department of Plant and Soil Science, Texas Tech University. Completed May 23, 2017 (Chair).
5. **Sanjit Acharya**, Cellulose dissolution in different solvents. Department of Plant and Soil Science, Texas Tech University. Completed May 24, 2017 (Chair).
6. **Sumedha Priyadarshani Liyanage**, Potential applications of Fourier Transform Infrared microspectroscopy imaging. Department of Plant and Soil Science, Texas Tech University. Completed October 11, 2017 (Chair).

In progress:

1. **Niwanthi Dissanayake**, Department of Plant and Soil Science, Texas Tech University (Chair).
2. **Vikki Martin**, Department of Plant and Soil Science, Texas Tech University (Chair).
3. **Prakash Parajuli**, Department of Plant and Soil Science, Texas Tech University (Chair).

Post-Doctorate Fellows:

1. **Rajeev Rajbhandari**, January 1, 2014 to February 27, 2015.
2. **Yang Hu**, September 1, 2014 to December 1, 2015. Dr. Hu was recruited as a Research Assistant Professor and continues to work in my Lab. I serve as his Faculty Mentor.
3. **Rohan Dassanayake**, February 1, 2015 to August 9, 2018.
4. **Sanjit Acharya**, September 2017 to present.
5. **Sumedha Priyadarshani Liyanage**, January 2018 to present.

Undergraduates:

1. **Sami Moussa**, August 2015 to May 31, 2017.
2. **Maria Hountondji** (from the University of Paris XIII, France), July-September 2015.
3. **Britnie Barrett**, July 2017 to December 2017.

Research Associate (Technician):

1. **Hewa Rajakaruna**, May 16, 2012 to present.
2. **Tanya Jackson**, June 1, 2015 to September 30, 2016

SERVICE ON GRADUATE COMMITTEES

M.S.

Completed:

1. **Farzad Hosseinali**, Investigations on the tensile properties of individual cotton (*Gossypium hirsutum L.*) fibers, Department of Plant and Soil Science, Texas Tech University. Completed in June 15, 2012.
2. **Dev Paudel**, Evaluating the potential of new testing methods for cotton (*Gossypium hirsutum L.*) breeding, Department of Plant and Soil Science, Texas Tech University. Completed in June 21, 2012.

3. **James Hodgson**, Department of Plant and Soil Science (Distance), Texas Tech University. Completed in June 1, 2012.
4. **Mark Schoonover**, Plant and Soil Science (Distance), Texas Tech University, Completed October 16, 2012.
5. **Holli Elaine Myers**, Department of Plant and Soil Science (Distance), Texas Tech University. Completed in March 1, 2013.
6. **Henry Hunter**, Plant and Soil Science (Distance), Texas Tech University, Completed in March 27, 2014.
7. **Ruvini Mathangadeera**, Evaluating the impact of fiber processing on cotton fiber tensile properties, Plant and Soil Science, Texas Tech University. Completed in October 16, 2014.
8. **Imel Robert**, Agronomic and Economic Analysis of Drought Tolerant Crops for the Texas High Plains, Plant and Soil Science, Texas Tech University. Completed March 27, 2015.
9. **Kolby McCormick**, Improved testing methods for cotton breeders: Calibration of the High Volume Instrument (HVI) elongation measurement, Plant and Soil Science, Texas Tech University. Completed October 09, 2015.
10. **Charles Langdon**, Plant and Soil Science (Distance), Texas Tech University. Completed October 15, 2015.
11. **Suman Lamichhane**, An evaluation of cotton fiber cross-section with image analysis software, Plant and Soil Science, Texas Tech University. Completed January 25, 2016.
12. **Jonathan Shockey**, Harvest-aid efficiency in guar (*Cyamopsis tetragonoloba L.*) in the Texas Plains. Plant and Soil Science, Texas Tech University. Completed October 14, 2016.
13. **Nicholas Gallington**, Plant and Soil Science (Distance), Texas Tech University. Completed March 2, 2017.
14. **Kafil Chowdhury**, Dose to the skin of human leg model from monoenergetic beta sources uniformly distributed on soil with surface roughness. Mechanical Engineering, Texas Tech University. Completed June 29, 2017.
15. **Scott Baker**, Within-plant variability of Upland cotton varieties in multiple environments. Plant and Soil Science, Texas Tech University. Completed March 27, 2018.

In Progress:

1. **Jacob James**, Plant and Soil Science, Texas Tech University.

Ph.D.

Completed:

1. **Chih-yuan Wu**, *Microreology and Particle Dynamics at Liquid-Liquid Interface*. Department of Chemical Engineering, Texas Tech University. Completed October 31, 2009.
2. **Natalia Castillo**, *A hydroponic approach to evaluate responses to salinity stress in cotton*, Department of Plant and Soil Science, Texas Tech University. Completed in July 25, 2011.

3. **Ruwanti Chandima Wettasinghe**, *Development of castor (Ricinus communis) var. Brigham with ultra low ricin content by analyzing soluble seed proteins*, Department of Plant and Soil Science, Texas Tech University. Completed in June 21, 2012.
4. **Manandhar Roji**, *Impact of cotton fiber maturity on cotton processing*, Department of Plant and Soil Science, Texas Tech University. Completed in October 09, 2013.
5. **Swain Shayla**, *Fabrication of biodegradable biopolymer composites for orthopedic applications*, Department of Industrial Engineering, Texas Tech University. Completed April 4, 2014.
6. **Khalil Azzaoui**, *Elaboration et etude de quelques composites a base d'hydroxyapatite phosphorique, distines aux usages industriels et medicaux (in French)*, University Mohamed Premier, Faculty of Sciences, Department of Chemistry, July 2014.
7. **Kelly Brendan**, *Multivariate analysis of fiber properties and their relation to yarn properties*, Department of Plant and Soil Science, Texas Tech University. Completed October 2014.
8. **Monique LeMieux**, *Targeting obesity-related inflammation through nutritional genetic approaches*, May 27, 2015 (Dean's Representative).
9. **Addisu Ayele**, *Plant and Soil Science, Texas Tech University. Completed October 4, 2017*

In Progress:

1. **Vimal Kumar Balasubramanian**, Plant and Soil Science, Texas Tech University.
2. **Maheshika Manike**, Biological Sciences, Texas Tech University.
3. **Chris Delhom**, Plant and Soil Science, Texas Tech University.
4. **Zachary Hinds**, Plant and Soil Science, Texas Tech University.
5. **Joao Paulo Saraiva Morais**, Plant and Soil Science, Texas Tech University.
6. **Most Arifa Sultana**, Plant and Soil Science, Texas Tech University.
7. **Manil Hettiwatte**, Civil, Environmental and Construction Engineering, Texas Tech University
8. **Tharanga Dissanayaka**, Civil, Environmental and Construction Engineering, Texas Tech University

REFEREED PUBLICATIONS (TOTAL CAREER: 85)

*: indicates graduate student, † indicates Postdoc.

Rank of the journal in the discipline, IF: impact factor (source: 2016 Journal Citation Reports (Clarivate Analytics, 2017))

1. **N. Abidi**, B. Deroide, J.V. Zanchetta, D. Bourret, H. Elmkami, P. Rumori. EPR study of Mn²⁺ doped silica glasses prepared by the sol-gel process. *Physics and Chemistry of Glasses* 37(4) (1996) 149-154. (Rank:100/111, IF 2016:0.599)
2. H. Elmkami, B. Deroide, J.V. Zanchetta, P. Rumori, **N. Abidi**. Electron Paramagnetic Resonance Study of Mn²⁺ and Cu²⁺ spin probes in (Ag₂S)_x(GeS₂)_{1-x} glasses. *J. of Non-Crystalline Solids* 208 (1996) 21-28. (Rank:4/26, IF 2016:2.124, 5-year IF:1.926)
3. **N. Abidi**, B. Deroide, J.V. Zanchetta. Water complexed Mn²⁺ as a probe in the ESR study of silica glasses obtained by the sol-gel process. *Nukleonika* 42(2) (1997) 505-514. (Rank: 39/46, IF 2016: 0.76, 5-year IF:0.512)

4. **N. Abidi**, B. Deroide, J.V. Zanchetta. The interaction of Mn^{2+} with porous silica xerogels and the hydration-dehydration processes in the xerogels. *J. Non-Crystalline Solids* 221 (1997) 59-69. (Rank: 4/26, IF 2016: 2.124, 5-year IF:1.926)
5. H. Elmkami, B. Deroide, **N. Abidi**, P. Rumori, J.V. Zanchetta. ESR study and dc conductivity of binary glasses of the system $(V_2O_5)_x(B_2O_3)_{1-x}$. *Physics and Chemistry of Glasses* 38(3) (1997) 137-143. (Rank: 100/111, IF 2016: 0.599)
6. P. Rumori, B. Deroide, **N. Abidi**, H. Elmkami, J.V. Zanchetta. Mn^{2+} Electron Paramagnetic Resonance study of a sodium borosilicate glass prepared by the sol-gel method. *J. Physics and Chemistry of Solids* 59(6-7) (1998) 959-967. (Rank: 77/166, IF 2016: 2.059, 5-year IF: 1.894)
7. **N. Abidi**, B. Deroide, J.V. Zanchetta, LC. de Menorval, J.B. d'Espinose. ^{29}Si and ^{129}Xe NMR of Mn^{2+} doped silica xerogels. *J. Non-Crystalline Solids* 231 (1998) 49-57. (Rank: 4/26, IF 2016: 2.124, 5-year IF: 1.926)
8. C. Kaewprasit, E. Hequet, **N. Abidi**, J-P. Gourolot. Application of methylene blue adsorption to cotton fiber surface area measurement: Part I methodology. *J. Cotton Science* 2 (1998) 164-173.
9. **N. Abidi**, B. Deroide, J.V. Zanchetta, M. Haddad. Interaction of manganese with interface sites in silica aerogels and partially densified aerogels. *Physics and Chemistry of Glasses* 40(4) (1999) 193-198. (Rank: 100/111, IF 2016: 0.599)
10. E. Hequet, **N. Abidi**. Processing Sticky Cotton: Implication of Trehalulose in Residue Build up. *J. Cotton Science* 6(1) (2002) 77-90.
11. E. Hequet, **N. Abidi**. High Speed Stickiness Detector Measurement: Effect of Temperature Settings and Relative Humidity. *J. Cotton Science* 6(1) (2002) 68-76.
12. H. Sari-Sarraf, E. Hequet, **N. Abidi**, Y. Dai, H.Y Chan. Automatic Measurement of Fabric Shrinkage. *American Association of Textile Chemists and Colorists Review* 2(10) (2002) 20-23.
13. H. Sari-Sarraf, E. Hequet, **N. Abidi**, Y. Dai, H.Y Chan, M.R. Jasso, B. Morris. Image processing algorithm for automatic assessment of fabric shrinkage. *Machine Vision Applications in Industrial Inspection X* 4664(2002) 89-96
14. C. Turner, H. Sari-Sarraf, E. Hequet, **N. Abidi**, S. Lee.. Preliminary Validation of a Fabric Smoothness Assessment System. *J. Electronic Imaging* 13(3) (2004) 418-427. (Rank: 212/260, IF 2016: 0.754, 5-year IF: 0.825)
15. **N. Abidi**, E. Hequet. Cotton Fabric Graft Copolymerization Using Microwave Plasma. I. Universal Attenuated Total Reflectance-FTIR Study. *J. Applied Polymer Science* 93(1) (2004) 145-154. (Rank: 36/86, IF 2016: 1.86, 5-year IF: 1.727)
16. **N. Abidi**, C. Turner, E. Hequet, H. Sari-Sarraf. Objective Evaluation of Durable Press Treatment and Fabric Smoothness Rating. *Textile Research J.* 75(1) (2005) 19-29. (Rank: 5/24, IF 2016: 1.443, 5-year IF: 1.657)
17. **N. Abidi**, E. Hequet. HPLC of Insect Honeydew Deposits Collected from the High Speed Stickiness Detector. *Textile Research J.* 75(4) (2005) 362-370. (Rank: 5/24, IF 2016: 1.443, 5-year IF: 1.657)

18. **N. Abidi**, E. Hequet, C. Turner, H. Sari-Sarraf. FTIR Analysis of Crosslinked Cotton Using a ZnSe-Universal Attenuated Total Reflectance. *J. Applied Polymer Science* 96(2) (2005) 392-399. (Rank: 36/86, IF 2016: 1.86, 5-year IF: 1.727)
19. E. Hequet, **N. Abidi**, D. Ethridge. Processing Sticky Cotton: Effect of Stickiness on Yarn Quality. *Textile Research J.* 75(5) (2005) 402-410. (Rank: 5/24, IF 2016: 1.443, 5-year IF: 1.657)
20. E. Hequet, **N. Abidi**. Effects of the Origin of the Honeydew Contamination on Cotton Spinning Performances. *Textile Research J.* 75(10) (2005) 699-709. (Rank: 5/24, IF 2016: 1.443, 5-year IF: 1.657)
21. **N. Abidi**, E. Hequet. Cotton Fabric Graft Copolymerization Using Microwave Plasma. II. Physical Properties. *J. Applied Polymer Science* 98 (2005) 896-902. (Rank: 36/86, IF 2016: 1.86, 5-year IF: 1.727)
22. **N. Abidi**, E. Hequet. Fourier Transform Infrared Analysis of Trehalulose and Sticky Cotton Yarn Defects Using ZnSe-Diamond Universal Attenuated Total Reflectance. *Textile Research J.* 75(9) (2005) 645-652. (Rank: 5/24, IF 2016: 1.443, 5-year IF: 1.657)
23. S. Tarimala, N. Kothari, **N. Abidi**, E. Hequet, J. Fralick, L. Dai. New Approach to Antibacterial Treatment of Cotton Fabric with Silver Nanoparticles-doped Silica Using Sol-gel Process. *J. Applied Polymer Science* 101(5) (2006) 2938 – 2943. (Rank: 36/86, IF 2016: 1.86, 5-year IF: 1.727)
24. **N. Abidi**, A. Sivade, D. Bourret, A. Larbot, B. Boutevin, F. Guida-Pietrasanta, A. Ratsimihelty. Surface modification of mesoporous membranes by fluoro-silane coupling reagent for CO₂ separation. *J. Membrane Science* 270 (2006) 101-107. (Rank: 8/135, IF 2016: 6.035, 5-year IF: 5.983)
25. E. Hequet, B. Wyatt, **N. Abidi**, D.P. Thibodeaux. Creation of a Set of Reference Material for Cotton Fiber Maturity Measurements. *Textile Research J.* 76(7) (2006) 576-586. (Rank: 5/24, IF 2016: 1.443, 5-year IF: 1.657)
26. **N. Abidi**, E. Hequet, D. Ethridge. Thermogravimetric Analysis of Cotton Fibers: Relationships with Maturity and Fineness. *J. Applied Polymer Science* 103(6) (2006) 3476-3482. (Rank: 36/86, IF 2016: 1.86, 5-year IF: 1.727)
27. **N. Abidi**, E. Hequet, S. Tarimala, L. Dai. Cotton Fabric Surface Modification for Improved UV-radiation Protection Using Sol-Gel Process. *J. Applied Polymer Science* 104(1) (2007) 111-117. (Rank: 36/86, IF 2016: 1.86, 5-year IF: 1.727)
28. **N. Abidi**, E. Hequet. Fourier Transform Infrared Analysis of Cotton Contamination. *Textile Research J.* 77(2) (2007) 77-84. (Rank: 5/24, IF 2016: 1.443, 5-year IF: 1.657)
29. **N. Abidi**, E. Hequet, S. Tarimala. Functionalization of Cotton Fabric with Vinyltrimethoxysilane. *Textile Research J.* 77(9) (2007) 668-674. (Rank: 5/24, IF 2016: 1.443, 5-year IF: 1.657)
30. H. Benzina*, E. Hequet, **N. Abidi**, J-Y. Drean, O. Harzallah. Using Fiber Elongation to Improve Genetic Screening in Cotton Breeding Programs. *Textile Research J.* 77(10) (2007) 770-778. (Rank: 5/24, IF 2016: 1.443, 5-year IF: 1.657)
31. **N. Abidi**, E. Hequet, L. Cabrales*, J. Gannaway, T. Wilkins, L.W. Wells. Evaluating Cell Wall Structure and Composition of Developing Cotton Fibers using Fourier

- Transform Infrared Spectroscopy and Thermogravimetric Analysis. *J. Applied Polymer Science* 107 (2008) 476-486. (Rank: 36/86, IF 2016: 1.86, 5-year IF: 1.727)
32. S. Wang, Y. Zhang, **N. Abidi**, L. Cabrales*. Wettability and surface free energy of grapheme sheets. *Langmuir* 25(18) (2009) 11078-11081. (Rank: 46/166, IF 2016: 3.833, 5-year IF: 4.205)
 33. **N. Abidi**, L. Cabrales*, E. Hequet. Functionalization of Cotton Fabric Surface with Titania Nanosols: Applications for Self Cleaning and UV Protection Properties. *ACS Applied Materials & Interfaces* 1(10) (2009) 2141-2146. (Rank: 12/87, IF 2016: 7.504, 5-year IF: 7.833)
 34. **N. Abidi**, L. Cabrales*, E. Hequet. Fourier Transform Infrared Spectroscopic Approach to the Study of the Secondary Cell Wall Development in Cotton Fiber. *Cellulose* 17 (2010) 309-320. (Rank: 1/21, IF 2016: 3.417, 5-year IF: 3.885)
 35. **N. Abidi**, L. Cabrales*, E. Hequet. Changes in Sugar Composition and Cellulose Content during the Secondary Cell Wall Biogenesis in Cotton Fibers. *Cellulose* 17 (2010) 153-160. (Rank: 1/21, IF 2016: 3.417, 5-year IF: 3.885)
 36. **N. Abidi**, L. Cabrales*, E. Hequet. Thermogravimetric Analysis of Developing Cotton Fibers. *Thermochimica Acta* 498 (1-2) (2010) 27-32. (Rank: 19/58, IF 2016: 2.236, 5-year IF: 2.545)
 37. C. Nansen, **N. Abidi**, A.J. Sidumo, A.H. Gharalari. Using Spatial Structure Analysis of Hyperspectral Imaging Data and Fourier Transformed Infrared Analysis to Determine Bioactivity of Surface Pesticide Treatment. *Remote Sensing* 2 (2010) 908-925. (Rank: 7/29, IF 2016: 3.244, 5-year IF: 3.749)
 38. L. Cabrales*, **N. Abidi**. On the thermal degradation of cellulose in cotton fibers. *J. Thermal Analysis and Calorimetry* 102(2) (2010) 485-491. (Rank: 20/58, IF 2016: 1.953, 5-year IF: 1.69)
 39. M. Errami, R. Salghi, **N. Abidi**, L. Bazzi, B. Hammouti, A. Chakir, E. Roth. Electrooxidation of bupiramate: A comparative study of SnO₂ and boron doped diamond anodes. *International J. of Electrochemistry Science*, 6 (2011) 4927-4938.
 40. L. Cabrales*, **N. Abidi**. Microwave plasma induced grafting of oleic acid on cotton fabric surfaces. *Applied Surface Science* 258 (2012) 4636-4641. (Rank: 42/145, IF 2016: 3.387, 5-year IF: 3.184)
 41. L. Cabrales*, **N. Abidi**, A. Hammond, A. Hamood. Cotton fabric functionalization with Cyclodextrins. *J. Mater. Environ. Sci.* 3(3) (2012) 561-574.
 42. D.R. Paudel*, E.F. Hequet, **N. Abidi**. Evaluation of cotton fiber maturity measurements. *Industrial Crops and Products* 45 (2013) 435-441. (Rank: 3/14, IF 2016: 3.181, 5-year IF: 3.577)
 43. R.M. Allaf, I.V. Rivero, **N. Abidi**, I. Iranov. Porous Poly(ϵ -caprolactone) Scaffolds for Load-Bearing Tissue Regeneration: Solventless Fabrication and Characterization. *J. Biomedical Materials Research Part B – Applied Biomaterials* 101B(6) (2013) 1051-1060. (Rank: 19/77, IF 2016: 3.189, 5-year IF: 3.039)
 44. P. Aminayi*, **N. Abidi**. Imparting super hydro/oleophobic properties to Cotton Fabric by means of Molecular and Nanoparticles Vapor Deposition Methods. *Applied Surface Science* 287 (2013) 223-231. (Rank: 42/145, IF 2016: 3.387, 5-year IF: 3.184)

45. N. Abidi, L. Cabrales*, C. Haigler. Changes in the cell wall and cellulose content of developing cotton fibers investigated by FTIR spectroscopy. *Carbohydrate Polymers* 100 (2014) 9-16. (Rank: 4/72, IF 2016: 4.811, 5-year IF: 5.130)
46. S.S. Spearman, I.V. Rivero, N. Abidi. Influence of Polycaprolactone /Polyglycolide Blended Electrospun Fibers on the Morphology and Mechanical Properties of Polycaprolactone. *J. Applied Polymer Science* 131(9) (2014). 40224. (Rank: 36/86, IF 2016: 1.86, 5-year IF: 1.727)
47. A. Mittal, R. Balasubramanian, J. Cao, P. Singh, S. Subramanian, G. Hicks, E. A. Nothnagel, N. Abidi, J. Janda, D.W. Galbraith, C.D. Rock. "TOPOISOMERASE 6B is involved in chromatin remodeling associated with hormone and environmental control of carbon partitioning, secondary metabolite and cell wall synthesis, and epidermal morphogenesis in Arabidopsis". *J. Experimental Botany* 65(15) (2014) 4217-4239. (Rank: 14/211, IF 2016: 5.83, 5-year IF: 6.53)
48. S. Sanjit*, N. Abidi, R. Rajbhandari, F. Mewlewaeter. Chemical cationization of cotton fabric for improved dye uptake. *Cellulose* 21 (2014) 4693-4706. (Rank: 1/21, IF 2016: 3.417, 5-year IF: 3.885)
49. L. Cabrales*, N. Abidi, F. Manciu. Characterization of developing cotton fibers by confocal Raman spectroscopy. *Fibers* 2 (2014) 286-294.
50. Y. Hu, J.M. Catchmark, Y. Zhu, N. Abidi, X. Zhou, J. Wang, N. Liang. Engineering of porous bacterial cellulose toward human fibroblasts in-growth for tissue engineering. *J. Materials Research* 29(22) (2014) 2682-2693. (Rank: 151/275, IF 2016: 1.673, 5-year IF: 1.833)
51. S.S. Spearman, I.V. Rivero, F. Irin, M.J. Green, N. Abidi. Effect of dsDNA Wrapped Single-Walled Carbon Nanotubes on the Thermal and Mechanical Properties of Polycaprolactone and Polyglycolide Fiber Blend Composites. *Polymer*, 56 (2015) 476-481. (Rank: 11/86, IF 2016: 3.684, 5-year IF: 3.74)
52. N. Abidi, L. Cabrales*, P. Aminayi*. Molecular and Nanoparticles vapor disposition methods to create super hydro/oleophobic surfaces. *Moroccan J. of Chemistry*, 3(1) (2015) 167-184.
53. Y. Sun, S. Veerabomma, M. Fokar, N. Abidi, E. Hequet, P. Payton, R. Allen. Brassinosteroid signaling affects secondary cell wall deposition in cotton fibers. *Industrial Crops and Products*, 65 (2015) 334-342. (Rank: 3/14, IF 2016: 3.181, 5-year IF: 3.577)
54. S. Liyanage*, N. Abidi, D. Auld, H. Moussa. Chemical and physical characterization of galactomannan extracted from guar cultivars (*Cyamopsis tetragonolobus* L.). *Industrial Crops and Products*, 74 (2015) 388-396. (Rank: 3/14, IF 2016: 3.181, 5-year IF: 3.577)
55. P. Aminayi*, N. Abidi. Ultra oleophobic cotton fabric prepared using Molecular and Nanoparticles Vapor Deposition Methods. *Surface Coatings & Technology*, 276 (2015) 636-644. (Rank: 4/9, IF 2016: 2.589, 5-year IF: 2.538)
56. F. Mounir, S. ElIssami, Lh. Bazzi, R. Salghi, N. Abidi, S. Jodeh, L. Bazzi, A.C. Eddine. Green approach to corrosion inhibition of copper by two oils of Argan Spinosa (L.) in Phosphoric Acid. *J. Mater. Environ. Sci.* 6(8) (2015) 2066-2075.
57. K. Azzaoui, E. Mejdoubi, A. Lamhamdi B. Hammouti, N. Akartasse, M. Berrabah, A.

- Elidrissi, S. Jodeh, O. Hamed, **N. Abidi**. Novel tricomponent composites film from polylactic acid/hydroxyapatite/poly-caprolactone suitable for biomedical applications. *J. Mater. Environ. Sci.* 7(3) (2016) 761-769.
58. R.S. Dassanayake[‡], C. Gunathilake, T. Jackson, M. Jaroniec, **N. Abidi**. Preparation and adsorption properties of aerocellulose-derived activated carbon monoliths. *Cellulose*, 23(2) (2016) 1363-1374. (Rank: 1/21, IF 2016: 3.417, 5-year IF: 3.885)
59. C. Gunathilake, R.S. Dassanayake[‡], **N. Abidi**, M. Jaroniec. Amidoxime-Functionalized Microcrystalline Cellulose-Mesoporous Silica Composites for Carbon Dioxide Sorption at Elevated Temperatures. *J. Mater. Chem. A*, 4 (2016) 4808-4819.
60. Q-Y. Li, J. Ye, J. Xuiong, **N. Abidi**. Structures and high fluorescence of novel nanocomposites of sodium carboxymethyl cellulose/Tb (III) prepared at different pHs. *Polymer Composites*. DOI: 10.1002/pc.24013 (2016). (Rank: 9/25, IF 2016: 2.324, 5-year IF: 2.121)
61. **N. Abidi**, P. Kiekens. Chemical functionalization of cotton fabric to impart multifunctional properties. *Tekstilec*, 59(2) (2016) 156-161.
62. S. Huang, N. Liang, Y. Hu, X. Zhou, **N. Abidi**. Polydopamine-Assisted Surface Modification for Bone Bio-substitutes. *BioMed Research International*, 2389895, <http://dx.doi.org/10.1155/2016/2389895> (2016). (Rank: 65/158, IF 2016: 2.476, 5-year IF: 2.587)
63. L. Cabrales, K. Calderon, I. Hinojosa, F. Valencia, **N. Abidi**. Synthesis and characterization of polyesters derived from sebacic acid, hexanediol, and hydroquinone. *International Journal of Polymer Analysis and Characterization*, 21(8) (2016) 718-727. (Rank: 46/85, IF 2016: 1.515, 5-year IF: 1.052)
64. R.S. Dassanayake[‡], E. Rajakaruna, H. Moussa, **N. Abidi**. One-pot synthesis of MnO₂-Chitin hybrids for effective removal of methylene blue. *International Journal of Biological Macromolecules*, 93 (2016) 350-358. (Rank: 91/286, IF 2016: 3.671, 5-year IF: 3.657)
65. C. Ruan, Y. Zhu, X. Zhou, **N. Abidi**, Y. Hu, J.M. Catchmark. Effect of cellulose crystallinity on bacterial cellulose assembly, *Cellulose*, 23(6) (2016) 3417-3427. (Rank: 1/21, IF 2016: 3.417, 5-year IF: 3.885)
66. Y. Hu, **N. Abidi**. Multistage. Distinct chiral nematic self-assembling behavior caused by different size-unified cellulose nanocrystals via a multistage separation. *Langmuir*, 32(38) (2016) 9863-9872. (Rank: 46/166, IF 2016: 3.833, 5-year IF: 4.205)
67. Y. Hu, S. Li*, T. Jackson*, H. Moussa, **N. Abidi**. Preparation, characterization, cationic functionalization of cellulose-based aerogels for wastewater clarification. *Journal of Materials*, <http://dx.doi.org/10.1155/2016/3186589> (2016).
68. P.T. Wansapura*, R. S. Dassanayake[‡], A. Hamood, P. Tran, H. Moussa, **N. Abidi**. Preparation of CdTe quantum dots chitin hybrid films and study of antibacterial properties on *Staphylococcus Aureus* and *Pseudomonas Aeruginosa*. *J. Applied Polymer Science*, DOI: 10.1002/APP.44907 (2017). (Rank: 36/86, IF 2016: 1.86, 5-year IF: 1.727)
69. S. Acharya*, Y. Hu, H. Moussa, **N. Abidi**. Preparation and characterization of transparent cellulose films using an improved cellulose dissolution process. *J. Applied*

- Polymer Science*, DOI: 10.1002/APP.44871 (2017). (Rank: 36/86, IF 2016: 1.86, 5-year IF: 1.727)
70. S. Liyanage*, R.S. Dassanayake[‡], A. Bouyanfif*, E. Rajakaruna, L. Ramalingam, N. Moustaid-Moussa, **N. Abidi**. Optimization of cryostat temperature conditions for trans-reflectance mode FTIR microspectroscopic imaging of biological tissues. *MethodsX*, 4 (2017) 118-127.
 71. Y. Hu, O. Hamed, R. Salghi, **N. Abidi**, S. Jodh, R. Hattab. Extraction and Characterization of Cellulose from Agricultural Waste Argan Press Cake, *Cellulose Chemistry and Technology*, 51(3-4) (2017) 263-272. (Rank: 11/21, IF 2016: 0.763, 5-year IF: 1.093)
 72. R.S. Dassanayake[‡], C. Gunathilake, A. Dassanayake, **N. Abidi**, M. Jaroniec. Amidoxime-Functionalized Nanocrystalline Cellulose-Mesoporous Silica Composites for Carbon Dioxide Adsorption at Ambient and Elevated Temperatures. *J. Materials Chemistry A*, 5 (2017) 7462-7473. (Rank: 15/145, IF 2016: 8.867, 5-year IF: 8.824)
 73. A. Messali, H. Lgaz, R. Dassanayake[‡], R. Salghi, S. Jodeh, **N. Abidi**, O. Hamed. Guar gum as efficient non-toxic inhibitor of carbon-steel corrosion in phosphoric acid medium: Electrochemical, surface, DFT and MD simulation studies. *J. Molecular Structure*, 1145 (2017) 43-54. (Rank: 91/145, IF 2016: 1.753, 5-year IF: 1.561).
 74. A. Bouyanfif*, S. Liyanage*, J. Hewitt, S.A. Vanapalli, N. Moustaid-Moussa, E. Hequet, **N. Abidi**. FTIR imaging detects diet and genotype-dependent chemical composition changes in wild type and mutant *C. elegans* strains. *Analyst*, 142 (2017) 4727-4736.
 75. **N. Abidi**, M. Manike*. X-Ray diffraction and FTIR investigations of cellulose deposition during cotton fiber development. *Textile Research Journal*, 88(7) (2018) 719-730. (Rank: 5/24, IF 2016: 1.443, 5-year IF: 1.657)
 76. S. Acharya*, Y. H, **N. Abidi**. Investigation of mild condition dissolution of high molecular weight cotton cellulose in 1-butyl-3-methylimidazolium acetate (BMIMAc)/N,N-Dimethylacetamide (DMAc) solvent system. *J. Applied Polymer Science*. 135(9) (2018) DOI: 10.1002/APP.45928. (Rank: 36/86, IF 2016: 1.86, 5-year IF: 1.727).
 77. R.S. Dassanayake[‡], Hbe. Rajakaruna, **N. Abidi**. Preparation of aerochitin- anatase TiO₂ composite for efficient photocatalytic degradation of methylene blue. *J. of Applied Polymer Science*. 135(8) (2018) DOI: 10.1002/APP.45908. (Rank: 36/86, IF 2016: 1.86, 5-year IF: 1.727).
 78. S. Liyanage*, **N. Abidi**. Molecular weight of cellulose and its organization at different stages of cotton fiber development. *Textile Research Journal*. **IN PRESS**
 79. R.S. Dassanayake, C. Gunathilake, **N. Abidi**, M. Jaroniec. Activated Carbon Derived from Chitin Aerogels: Preparation and CO₂ Adsorption. *Cellulose*. 25(2018) 1911-1920.
 80. A. Bouyanfif, S. Liyanage, E. Hequet, N. Moustaid-Moussa, **N. Abidi**. Review of FTIR microspectroscopy applications to investigate biochemical changes in *C. elegans*. *Vibrational Spectroscopy*. 96(2018) 74-82.

81. Q. Liu, Z. Dong, Z. Ding, D. Yu, Z. Hu, Y. Hu, **N. Abidi**, W. Li. Electro-responsive homogeneous polyelectrolyte complex hydrogels from naturally derived polysaccharides. *ACS Sustainable Chemistry & Engineering*. 6(2018)7052-7063.
82. Y. Hu, S. Acharya*, **N. Abidi**. Role of low-concentration acetic acid in promoting cellulose dissolution. *Cellulose*. 25(2018)4389-4405.
83. P. Gonzalez-Cruz, Md.-J. Uddin, S.U. Atwe, **N. Abidi**, H.S. Gill. Chemical treatment method for obtaining clean and intact pollen shells of different species. *ACS Biomaterials Science & Engineering*. 4(2018)2319-2329.
84. S. Liyanage*, A. Bouyanfif*, L. Ramalingam, N. Moustaid-Moussa, **N. Abidi**. FTIR microspectroscopy imaging reveals dietary induced changes in brown and white adipose tissues in mice. *Vibrational Spectroscopy*, 97(2018) 91-101.
85. Md Jasim Uddin, S. Liyanage*, **N. Abidi**, H. Gill. Physical and biochemical characterization of chemically-treated pollen shells for use in oral delivery of therapeutics. *J. of Pharmaceutical Sciences*, **IN PRESS**.

In review:

86. R.S. Dassanayake*, Hbe. Rajakaruna, **N. Abidi**. Borax Cross-linked Guar Gum-Manganese Dioxide Composites for Oxidative Decolorization of Methylene Blue. *J. Nanomaterials*.
87. Y. Hu, S. Acharya, N. Abidi. Cellulose porosity improves its dissolution by facilitating solvent diffusion. *International J. Biological Macromolecules*.
88. Md Jasim Uddin, **N. Abidi**, H. Gill. Physical and biochemical characterization of chemically treated pollen grain shells. *Advanced Functional Materials*.
89. Md Jasim Uddin, S. Liyanage*, **N. Abidi**, H. Gill. Physical and biochemical characterization of engineered pollen shells for multifunctional applications. *Materials Science & Engineering*.
90. N. Dissanayake*, V.D. Thalangamaarachchige, T. Jackson*, S. Troxell, E. Quitevis, **N. Abidi**. Substituent Effects on Cellulose Dissolution in Imidazolium-Based Ionic Liquids. *Cellulose*.

BOOKS AND SPECIAL JOURNAL ISSUE EDITOR (TOTAL CAREER: 3)

1. E. Hequet and **N. Abidi**. Sticky Cotton Measurements and Fiber Processing, Texas Tech University Press. December 2006, ISBN 10: 0-89672-590-1.
2. Guest Editor of Special Issue: Cellulose Fibers, in: *Fibers* (ISSN 2079-6439), MDPI AG, Basel, Switzerland 2014-2015.
3. S. Gordon and **N. Abidi**. Cotton Fibers, Characteristics, Uses, and Performances (ISBN 978-1-53610-913-9, LCCN 2017006949 (ebook) Nova Publisher, 2017.

PEER REVIEWED BOOK CHAPTERS (TOTAL CAREER: 15)

1. E. Hequet, **N. Abidi**, G. Gamble, M. Watson. 2007. Chapter 13: Measurement of Stickiness. *In: Sticky Cotton- Causes, Impacts, and Prevention*. Eds. E. Hequet, T.J. Hennebery, and R.L. Nichols. United States Department of Agriculture, Agricultural Research Service. Technical Bulletin 1915. pp. 166-178.

2. E. Hequet, **N. Abidi**, M. Watson, D. McAlister. **2007**. Chapter 14: Fiber Processing. *In: Sticky Cotton- Causes, Impacts, and Prevention*. Eds. E. Hequet, T.J. Hennebery, and R.L. Nichols. United States Department of Agriculture, Agricultural Research Service. Technical Bulletin 1915. June **2007**. pp. 179-193.
3. **N. Abidi**. **2009**. Chapter 4: Surface Grafting. *In: Surface Modification of Textiles*. Ed. Qufu Wei. Woodhead Publishing, ISBN: 978-1-84569-7 (invited). pp. 91-107.
4. **N. Abidi**. **2011**. Chapter 6: Fourier Transform Infrared Spectroscopy: Developments, Techniques and Applications. *In: Fourier Transform Infrared Spectroscopy*. Ed. Oliver J. Rees. Nova Science Publishers, ISBN: 978-1-61668-835-6 (invited). pp. 139-158
5. **N. Abidi**, E. Hequet, L. Cabrales*. **2011**. Chapter 5: Applications of Fourier Transform Infrared Spectroscopy to Study Cotton Fibers. *In: Fourier Transforms – New Analytical Approaches and FTIR Strategies Practical skills*. Ed. G.S. Nikolic, INTECH Open Access Publisher, ISBN: 978-953-308-207-3 (invited). pp. 89-114.
6. **N. Abidi**, P. Aminayi*, L. Cabrales*, E. Hequet. **2012**. Chapter 8: Super-hydrophobic cotton fabric prepared using Nanoparticles and Molecular Vapor Deposition Methods. *In: Functional Materials from Renewable Sources*. Eds. F. Leibner and T. Rosenau, *American Chemical Society Book Series*, ISBN: 978-0-8412-2788-0 (invited). pp. 149-165.
7. **N. Abidi**, S. Liyanage*, D. Auld, L. Norman, K. Grover, S. Augadi, S. Singla, C. Trostle. **2015**. Chapter 12: Challenges and Opportunities for Increasing Guar Production in the United States to Support Unconventional Oil and Gas Production. Eds. V. Uddameri, A. Morse, and K. Tindle. CRC Press. ISBN: 9781498721172 (invited). pp. 207-225.
8. **N. Abidi**, S. Liyanage*. **2015**. Chapter 13: Characterization of the Properties of Guar Gum to Improve Hydraulic Fracturing Efficiencies. Eds. V. Uddameri, A. Morse, and K. Tindle. CRC Press. ISBN: 9781498721172 (invited). pp. 227-250.
9. B. Kelly, **N. Abidi**, D. Ethridge, E. Hequet. **2015**. Fiber to Fabric. *In: Cotton 2nd Edition*, American Society of Agronomy, ISBN: 978-0-89118-626-7. Pp. 665-744.
10. **N. Abidi**. **2015**. Textile Chemistry. Dictionary of Cotton. *In: International Cotton Researchers Association and International Cotton Advisory Committee*, ISBN: 9780970491817.
11. **N. Abidi**. **2017**. Dyeing of Cotton Fibers. *In: Cotton Fibers, Uses and Performances*, Nova Publisher. (ISBN 978-1-53610-913-9, LCCN 2017006949 (ebook) Nova Publisher,
12. R. Dassanayake[‡], **N. Abidi**. **2017**. Cellulose derived aerogels. *In: Cotton Fibers, Uses and Performances*, Nova Publisher. ISBN 978-1-53610-913-9, LCCN 2017006949 (ebook) Nova Publisher.
13. **N. Abidi**. Chapter 5: Chemical properties of cotton fiber and chemical modification. *In: Cotton Fiber: Physics, Chemistry and Biology*. Ed. David Fang, Springer-Nature. **IN PRESS**.
14. Y. Hu, R. Dassanayake, S. Acharya, **N. Abidi**. Cotton cellulose-derived hydrogels with tunable absorbability: Research advances and properties. *In: Polymers and Polymeric Composites: A Reference Series. Cellulose-based Superabsorbent Hydrogels*. Md. Ibrahim H. Mondal (Ed.) Springer, Cham. DOI: https://doi.org/10.1007/978-3-319-76573-0_13-1. ISBN 978-3-319-76573-0

15. R. Dassanayake, S. Acharya, **N. Abidi**. Biopolymer-based materials from polysaccharides: Properties, processing, characterization and sorption applications. In: Sorption ISBN: 978-953-51-6955-0 IntechOpen. *IN PRESS*.

TECHNICAL PUBLICATIONS (TOTAL CAREER: 7)

1. E. Hequet and **N. Abidi**. 2002. Processing Sticky Cotton: Implication of Trehalulose in Residue Build-up. *Textile Topics, Vol. 2002-3*.
2. E. Hequet and **N. Abidi**. 2002. High Speed Stickiness Detector Measurement: Effect of Temperature Settings and Relative Humidity. *Textile Topics, Vol. 2002-4*.
3. **N. Abidi** and E. Hequet. 2003. Analysis of Sticky Cotton Yarn Defects by Scanning Electron Microscopy. *Microscopy and Analysis, Issue 60, 7-8*.
4. H. Sari-Saraf, E. Hequet, **N. Abidi**, Y. Dai, and H.Y Chan. 2003. Automatic Measurement of Fabric Shrinkage. *Textile Topics, Vol. 2003-1*.
5. **N. Abidi** and E. Hequet. 2004. Analysis of Sticky Cotton Yarn Defects by Scanning Electron Microscopy. *Textile Topics, Vol. 2004-1*.
6. **N. Abidi**, C. Turner, E. Hequet, and H. Sari-Sarraf. 2005. Objective Evaluation of Durable Press Treatments and Fabric Smoothness Ratings. *Textile Topics, Winter/Spring 2005*.
7. **N. Abidi**, E. Hequet. 2006. HPLC of Insect Honeydew Deposits Collected from the High Speed Stickiness Detector. *Textile Topics, Winter 2006*.

INTERNATIONAL PRESENTATIONS/TEACHING (TOTAL CAREER: 11)

1. **N. Abidi**. An overview on cellulose chemistry and functionalization of fabric surface for improved and new properties, University Moulay Ismail, Faculty of Sciences, Meknes, Morocco. July 14, 2004.
2. **N. Abidi**. New approaches for the functionalization of cotton fabrics. University of Haute Alsace, Mulhouse, France, December 19, 2007.
3. **N. Abidi**. Cellulose macromolecules: structure, development, and functionalization, University Med 1 Faculty of Sciences, Oujda, Morocco. July 6, 2009.
4. **N. Abidi**. Cellulose macromolecules: structure, development, and functionalization, University Moulay Ismail, Faculty of Sciences, Meknes, Morocco. July 14, 2009.
5. **N. Abidi**. Cellulose abundant biopolymer and precursor for the preparation of advanced biomaterials. Faculty of Sciences, University of Med 1 Oujda, Morocco, June 19-20, 2014.
6. **N. Abidi**. Recent developments in FTIR microspectroscopy technique. Faculty of Sciences, University of Med 1 Oujda, Morocco, July 3, 2014.
7. **N. Abidi**. Functionalization of cotton fabric surface and derived bioproducts from cellulose. Ghent University, Department of Textiles, Ghent, Belgium. March 4, 2016.
8. **N. Abidi**. Teaching Biopolymers and Bioproducts course for E-TEAM (European Textile Engineering Advanced Master), Department of Textile Engineering, Piraeus University of Applied Sciences, Athens, Greece, March 7-11, 2016.
9. **N. Abidi**. Research Activities at the Biopolymer Research Group at Texas Tech University. Piraeus University of Applied Sciences, Department of Textiles, Piraeus, Athens, Greece, March 10, 2016.
10. I taught a course on “*Chemical Modification of Surfaces*” for the 3rd Year Bachelor Students in Materials Science Ghent University, Ghent, Belgium. May 13, 2016.

11. **N. Abidi**. Teaching Biopolymers and Bioproducts course for E-TEAM (European Textile Engineering Advanced Master), Department of Textile Engineering, Ghent University, Ghent, Belgium, October 15-21, 2016.

ABSTRACTS AND PROCEEDINGS (TOTAL CAREER: 145)

1. **N. Abidi**, B. Deroide, and J.V. Zanchetta. Study of EPR spectra of Mn^{2+} probe introduced into silica glasses prepared by sol-gel process. In: European Conference of Ph.D. Students in Physical Sciences, July 4-8, 1994, Montpellier, France.
2. **N. Abidi**, B. Deroide, and J.V. Zanchetta. Study by spin label of silica glasses formation by sol-gel method. In: Conference of the French Society of Chemistry (In French), September 26-30, 1994, Lyon, France.
3. **N. Abidi**, P. Rumori, B. Deroide, and J.V. Zanchetta. Comparative study of the insertion of Mn^{2+} ions in two oxide glasses prepared by sol-gel process. In: 5th European Conference on solid-state chemistry, September 4-7, 1995, Montpellier, France.
4. **N. Abidi**, B. Deroide, and J.V. Zanchetta. Contribution to the characterization of sol-gel-xerogel transition by EPR. In: 5th Conference of the French Society of Chemistry "Grand sud ouest" (In French), November 24, 1995, Montpellier, France.
5. **N. Abidi**, B. Deroide, and J.V. Zanchetta. Sol-gel preparation of silica glasses: EPR study of Si-OH-- Mn^{2+} interaction in the xerogels. In: 7th Moroccan Meeting on solid-state chemistry (In French), October 30-31 November 1, 1996, Marrakech, Morocco.
6. P. Rumori, B. Deroide, **N. Abidi**, H. Elmkami, and J.V. Zanchetta. Sol-gel preparation of $Na_2O-SiO_2-B_2O_3$ glasses: Mn^{2+} EPR investigation. In: ESR Meeting on recent advances and applications to chemical and biological systems (In French), September 16-17, 1996, Paris, France.
7. **N. Abidi**, B. Deroide, and J.V. Zanchetta. Water complexed Mn^{2+} as a probe in the ESR study of silica glasses obtained by the sol-gel process. In: 2nd International Conference of Polish EPR Association, September 9-13, 1996, Warsaw, Poland.
8. H. Elmkami, B. Deroide, **N. Abidi**, P. Rumori, and J.V. Zanchetta. EPR study of local environment of V^{4+} in $(V_2O_5)_x(B_2O_3)_{1-x}$, glasses. In: ESR Meeting on recent advances and applications to chemical and biological systems (In French), September 16-17, 1996, Paris, France.
9. **N. Abidi**, B. Deroide, and J.V. Zanchetta. On the interaction of a Mn^{2+} probe with the surface of silica xerogels: NMR and EPR studies. In: Vth International Symposium on Aerogel, September 8-10, 1997, Montpellier, France.
10. B. Deroide, Y. Bensimon, **N. Abidi**, and P. Rumori. EPR spectra investigation by simulation and optimization of spectroscopic parameters. In: 8th "Journées Informatiques et Pédagogiques des Sciences Physiques" (In French) March 12-14, 1998, Montpellier, France.
11. **N. Abidi**, E. Hequet, and C. Kaewprasit. An EPR original approach for the characterization of porous materials and application to cotton fibers. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 5-9, 1998, San Diego CA, 2, 1594-1598.
12. C. Kaewprasit, E. Hequet, J-M. Douillard, and **N. Abidi**. Cotton specific surface area measurements by adsorption of methylene blue. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 5-9, 1998, San Diego CA, 2, 1592-1594.

13. A. Outzourhit, **N. Abidi**, M.L. Hafid, F. Bensamka, and J.C. Jumas. EPR study of BaTiO₃ and BaTi_{1-x}ZrxO₃ doped with Sb, Cu and Ni. In: "Journées Francophones des Jeunes Physico-chimistes" (In French), July 7-9, 1998, Montpellier, France.
14. C. Kaewprasit, E. Hequet, J-P. Gourlot, and **N. Abidi**. Specific surface area of cotton measuring by methylene blue adsorption and relation to its fineness. In: World Cotton Research Conference-2, September 6-12, 1998, Athens, Greece. pp. 1029-1032.
15. C. Kaewprasit, **N. Abidi**, and J-P. Gourlot. Specific surface area of some standard cotton fibers and its relation to physical properties. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 3-7, 1999, Orlando FL, 1,718-720.
16. C. Kaewprasit, **N. Abidi**, and J-P. Gourlot. Effect of adsorbed water on the specific surface area of some standard cotton fiber. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 3-7, 1999, Orlando FL, 1,710-712.
17. **N. Abidi**, P. Mejean, A. Sivade, D. Bourret, and A. Larbot. Ceramic Membranes for gas separation: effect of grafting of fluoro-silane. In: "Colloque International Membranes et Procédés de Séparation" (In French), April 28-30, 1999, Fez, Morocco.
18. M. Soufiani, **N. Abidi**, A. Sivade, D. Bourret, A. Larbot, and M. Jei. TiO₂-SiO₂-Silicone mixed membranes deposited on ceramic layer: effects on gaz permeability and selectivity. In: "Colloque International Membranes et Procédés de Séparation" (In French), April 28-30, 1999, Fez, Morocco.
19. B. Boutevin, F. Guida-Pietrasanta, A. Ratsimithety, **N. Abidi**, A. Sivade, D. Bourret, and A. Larbot. Si-F modified ceramic membranes: Support effect on gas permeability. In: Euromembrane 99, September 19-22, 1999, Louvain, Belgium.
20. **N. Abidi** and E. Hequet. New evidence on cotton stickiness: Part I. Thermal and hygroscopic properties of individual sugars present on sticky cotton. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 9-13, 2001, Anaheim CA 2, 1313-1313.
21. E. Hequet and **N. Abidi**. New evidence on cotton stickiness: Part II. Effect of temperature and relative humidity on cotton stickiness. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 9-13, 2001, Anaheim CA, 2,1313-1313.
22. **N. Abidi**, E. Hequet and G. Abdalah. Cotton fabric and UV protection. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 9-13, 2001, Anaheim CA, 2, 1301-1303.
23. E. Hequet, **N. Abidi**, and D. Auld. Fiber properties of selected cotton lines obtained by mutagenesis. In: Pro. Beltwide Cotton Conferences, National Cotton Council, January 9-13, 2001, Anaheim CA, 2,1247-1250.
24. **N. Abidi**, E. Hequet, and G. Abdalah. Effect of Dyeing and Finishing on Ultraviolet Transmission of Cotton Fabric. In: Annual International Conference of the American Association of Textile Chemists and Colorists. October 21-24, 2001, Greenville SC pp. 105-109.
25. E. Hequet, **N. Abidi**, and M. Watson. Relationship between sugar properties and stickiness measurements. In: International Cotton Advisory Committee & Common Funds For Commodities workshop on Cotton Stickiness, July 2-4, 2001, Lille, France. pp. 118-131.

26. E. Hequet, **N. Abidi**, and M. Watson. Relationship between sugar properties and stickiness measurements. In: General Conference of the Fiber Society, October 30 - November 1, 2001, Lake Tahoe NV.
27. E. Hequet and **N. Abidi**. Impact of Stickiness on Yarn Quality. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 8-12, 2002, Atlanta GA.
28. **N. Abidi** and E. Hequet. Effect of Instrument Settings on H2SD Readings. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 8-12, 2002, Atlanta GA.
29. H. Sari-Saraf, E.F. Hequet, **N. Abidi**, Y. Dai, H. Chan, M.R. Jasso, and B. Morris. Image-processing algorithm for automatic assessment of fabric shrinkage. In: Machine Vision Applications in Industrial Inspection, 2002, San Jose CA, Proceedings of SPIE, V. 4664, 9. 89-96.
30. **N. Abidi** and E.F. Hequet. Fourier Transform Infrared (FT-IR) Micro-spectroscopy Analysis of Sticky Cotton Yarns. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 6-10, 2003, Nashville TN.
31. E.F. Hequet and **N. Abidi**. High Performance Liquid Chromatography (HPLC) Analysis of High Speed Stickiness Detector (H2SD) Sticky Deposits. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 6-10, 2003, Nashville TN.
32. C. Turner, H. Sari-Sarraf, E. Hequet, **N. Abidi** and S. Lee. Preliminary Validation of a Fabric Smoothness Assessment System. In: Proc. of 6th Quality Control by Artificial Vision, May 2003, Gatlinburg TN.
33. **N. Abidi** and E. Hequet. UATR-FTIR and HPLC Analysis of Sticky Deposits. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 5-9, 2004, San Antonio TX.
34. E. Hequet and **N. Abidi**, C. Turner, and H. Sari-Sarraf. Objective Evaluation of Fabric Smoothness. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 5-9, 2004, San Antonio TX.
35. **N. Abidi** and E. Hequet. Microwave Plasma-Induced Graft Copolymerization of Cotton Fabric. In: American Chemical Society, Southwest Regional Meeting, September 29 – October 2, 2004, Dallas TX.
36. **N. Abidi**, E. Hequet, C. Turner, and H. Sari-Sarraf. FTIR Analysis of Cross-linked Cotton Fabric Using ZnSe-Universal Attenuated Total reflectance. In: American Chemical Society, Southwest Regional Meeting, September 29 – October 2, 2004, Dallas TX.
37. **N. Abidi** and E. Hequet. Cotton Fabric Surface Modification Using Microwave Plasma. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 4-7, 2005, New Orleans LA.
38. T.A. Wilkins, A.B. Arpat, B.A. Sickler, **N. Abidi**, E. Hequet. Single-Cell genomics: Developing cotton fibers as a model for studying cell wall biogenesis. Biogenesis of Plant Cell Walls, Asilomar, CA, 2005.
39. S. Yan, V. Suresh, E. Hequet, **N. Abidi**, R. Allen. Brassinosteroid and *BR1* Influence Cotton Fiber Maturity. Plant Biology, August 5–9, 2006, Boston, MA (poster).
40. **N. Abidi**, E. Hequet. FTIR Analysis of Cotton Contamination. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 3-6, 2006, San Antonio, TX.

41. E.F. Hequet and **N. Abidi**. Multidisciplinary Approach to Fiber Testing for Biotechnologists. 19th Annual EFS System Conference (Invited) June 2006.
42. T. Wilkins, E. Hequet, **N. Abidi**. Towards the Genetic Improvement of Cotton Fiber Quality in Response to Low Temperature. 21st Annual Southwest Consortium on Plant Genetics and Water Resources Symposium, August 24-26, 2006, Las Cruces, NM.
43. D. Auld, E. Bechere, E. Hequet, **N. Abidi**. Characterization of a Cotton Mutant with Improved Yarn Spinning Performance, 21st Annual Southwest Consortium on Plant Genetics and Water Resources Symposium, August 24-26, 2006, Las Cruces, NM, (poster).
44. **N. Abidi**, E. Hequet. On the Use of Thermogravimetric Analysis to Study Cotton Fibers. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 9-12, 2007, New Orleans, LA.
45. **N. Abidi**, E. Hequet. Cotton Fabric Surface Functionalization to Impart Antibacterial and UV Protection Properties. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 9-12, 2007, New Orleans, LA.
46. E. Hequet, **N. Abidi**. Importance of Sample Preparation in AFIS Testing. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 9-12, 2007, New Orleans, LA.
47. H. Benzina, E. Hequet, **N. Abidi**, J-Y. Drean, J.R. Gannaway, and O. Harzallah. Using Fiber Elongation to Improve Genetic Screening in Cotton Breeding Programs. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 9-12, 2007, New Orleans, LA.
48. R. Allen, Y. Sun, M. Fokar, S. Veerabomma, **N. Abidi**, and E. Hequet. Brassinosteroid Signaling Promotes Secondary Cell Wall Development in Cotton Fibers. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 9-12, 2007, New Orleans, LA.
49. T. Wilkins, **N. Abidi**, E. Hequet. Developing Cotton Fibers as a Single-celled Genomics Platform for Studying Cell Morphogenesis. Botany and Plant Biology July 2007 (poster).
50. **N. Abidi** and E. Hequet. Characterization of cotton fibers using TGA and FTIR. World Cotton Research Conference-4, Sept. 10-14, 2007, Lubbock, TX.
51. **N. Abidi**, E. Hequet, and L. Cabrales-Arriaga. New approaches for the functionalization of cotton fabrics. World Cotton Research Conference-4, Sept. 10-14, 2007, Lubbock, TX.
52. E. Hequet, **N. Abidi**, and J.R. Gannaway. Relationships between HVI and yarn tensile properties. 2007. World Cotton Research Conference-4, Sept. 10-14, 2007, Lubbock, TX.
53. N. Kothari, **N. Abidi**, E. Hequet, and T. Wilkins. Fiber quality variability within a plant. 2007. World Cotton Research Conference-4, Sept. 10-14, 2007, Lubbock, TX.
54. C.C. Lowery, D.L. Auld, E. Bechere, R.J. Wright, E. Hequet, **N. Abidi**, and C.W. Smith. Use of Chemical Mutagenesis in Improving Upland Cotton. World Cotton Research Conference-4, Sept. 10-14, 2007, Lubbock, TX.
55. **N. Abidi**, E. Hequet, L. Cabrales, J. Gannaway, T. Wilkins, and L. Wells. Evaluating Cell Wall Structure and Composition of Developing Cotton Fibers Using Fourier Transform Infrared Spectroscopy and Thermogravimetric Analysis. American Chemical Society Southwest Regional Meeting, November 4-7, 2007, Lubbock, TX.

56. E.F. Hequet and **N. Abidi**. Importance of Producing Mature Cotton Fibers: Part I. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 8-11, 2008, Nashville, TN.
57. N. Kothari, **N. Abidi**, E.F. Hequet, and T. Wilkins. Multidisciplinary Approach to Study Cotton Fiber Maturity. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 8-11, 2008, Nashville, TN.
58. E.F. Hequet, **N. Abidi**, and J.R. Gannaway. Relationships between Fiber and Yarn Tensile Properties. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 8-11, 2008, Nashville, TN.
59. **N. Abidi**, E. Hequet, L. Cabrales, J. Gannaway, and T. Wilkins. Structure and Composition of Developing Cotton Fibers. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 8-11, 2008, Nashville, TN.
60. A. Mittal, **N. Abidi**, E. Nothnagel, J. Janda, D. Galbraith, C. Rock. Characterization of HARLEQUIN, a peletropic mutant of Arabidopsis with defects hormone-inducible gene expression, morphogenesis, and the cell wall. Annual Meeting of the Southern Section of the American Society of Plant Biologists. March 1-3, 2008. Bossier City, LA.
61. **N. Abidi**, E. Hequet, L. Cabrales. Imparting Multi-functional Properties to Cotton Fabric by Means of Sol-gel Process. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 5-8, 2009, San Antonio, TX.
62. **N. Abidi**, E. Hequet, L. Cabrales, J. Dever. FTIR Investigation of Secondary Cell Wall Development in Cotton Fibers. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 5-8, 2009, San Antonio, TX.
63. E. Hequet and **N. Abidi**. Spinning Performances of West Texas Upland Cottons. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 5-8, 2009, San Antonio, TX.
64. E. Hequet and **N. Abidi**. Optimizing the Use of the AFIS for Breeders: Effect of Sample Preparation. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 5-8, 2009, San Antonio, TX.
65. N. Kothari, **N. Abidi**, E. Hequet, and T. Wilkins. Phenotypic Characterization of im Fibers. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 5-8, 2009, San Antonio, TX.
66. **N. Abidi**, E. Hequet, L. Cabrales. Secondary Cell Wall Development in Cotton Fibers. 237th American Chemical Society National Meeting & Exposition, March 22-26, 2009, Salt Lake City, UT.
67. **N. Abidi**, E. Hequet, L. Cabrales. Thermogravimetric Analysis as a Tool to Study the Secondary Cell Wall Biogenesis in Cotton Fibers. 37th Annual Conference on Thermal Analysis and Applications. North American Thermal Analysis Society. September 20–23, 2009, Lubbock TX.
68. **N. Abidi**, E. Hequet, L. Cabrales. 2009. Relationships between Thermal Properties and Maturity-Fineness of Cotton Fibers and Estimation of the Primary Cell Wall Thickness. 37th Annual Conference on Thermal Analysis and Applications. North American Thermal Analysis Society. September 20–23, 2009, Lubbock TX.
69. L. Cabrales, **N. Abidi**, E. Hequet. On the Thermal Degradation of Cellulose in Cotton Fibers Compared to Microcrystalline Cellulose (Avicel). 37th Annual Conference on

Thermal Analysis and Applications. North American Thermal Analysis Society. September 20 – 23, 2009, Lubbock TX.

70. L. Cabrales, **N. Abidi**. Universal Attenuated Total Reflectance-Fourier Transform Infrared Spectroscopic approach to study the secondary cell wall in developing cotton fibers. 4th Canada-America-Mexico Graduate Students Physics Conference 2009. October 22-24, 2009, Acapulco, Guerrero, Mexico.
71. **N. Abidi**, L. Cabrales, E. Hequet. HPLC and TGA Investigations of the Secondary Cell Wall Development in Cotton Fibers. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 4-7, 2010, New Orleans, LA.
72. E. Hequet, **N. Abidi**. Examination of the Relationships Between Individual Fibers Tensile Properties and Bundle Tensile Properties. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 4-7, 2010, New Orleans, LA.
73. E. Hequet, **N. Abidi**. Relationships Between Fiber Length Distribution and Fiber Maturity. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 4-7, 2010, New Orleans, LA.
74. N. Castillo, J. Dever, D. Auld, **N. Abidi**. Screening and Evaluating Wild Cotton for Salt Tolerance Characteristics. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 4-7, 2010, New Orleans, LA (poster).
75. L. Cabrales, **N. Abidi**. Microwave plasma grafting of fatty acids on cotton fabric surface. 239th American Chemical Society National Meeting & Exposition, March 21-25, 2010, San Francisco, CA.
76. **N. Abidi**, L. Cabrales, E. Hequet. Secondary cell wall development in cotton fibers: FTIR, HPLC, and TGA investigations. 239th American Chemical Society National Meeting & Exposition, March 21-25, 2010, San Francisco, CA.
77. **N. Abidi**, L. Cabrales, E. Hequet. Surface Modification of cellulosic substrate to impart multifunctional properties. 239th American Chemical Society National Meeting & Exposition, March 21-25, 2010, San Francisco, CA.
78. E. Hequet, **N. Abidi**. 2011. Effect of cotton fiber maturity on yarn quality. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 4-7, Atlanta, GA.
79. **N. Abidi**, E. Hequet. On the cellulose development in cotton fibers. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 4-7, 2011, Atlanta, GA.
80. **N. Abidi**, L. Cabrales, E. Hequet. Cellulose development and organization during the secondary cell wall biogenesis in cotton fibers. 241st American Chemical Society Meeting and Exposition, March 27-31, 2011, Anaheim, CA.
81. P. Aminayi, L. Cabrales, **N. Abidi**, E. Hequet. Imparting super hydro/oleophobic properties to surfaces by means of molecular and nanoparticles vapor deposition methods. 241st American Chemical Society Meeting and Exposition, March 27-31, 2011, Anaheim, CA.
82. L. Cabrales, **N. Abidi**, E. Hequet. Cotton functionalization with cyclodextrins. 241st American Chemical Society Meeting and Exposition, March 27-31, 2011, Anaheim, CA.
83. **N. Abidi**, L. Cabrales, E. Hequet. Spectroscopic approach to study cellulose development during the secondary cell wall biogenesis in cotton fibers. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 3-6, 2012 Orlando, FL.

84. **N. Abidi**, P. Aminayi, L. Cabrales, E. Hequet. Nanoparticles Vapor Deposition and Molecular Vapor Deposition methods as tools for cotton fabric surface functionalization. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 3-6, 2012, Orlando, FL.
85. E. Hequet, **N. Abidi**. Impact of trash content on fiber quality measurement and yarn quality. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 3-6, 2012, Orlando, FL.
86. E. Hequet, **N. Abidi**, R. Boman, J.D. Wanjura. Effect of harvesting methods and cotton fiber maturity on yarn quality. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 3-6, 2012, Orlando, FL.
87. R. Manandhar, E. Hequet, **N. Abidi**, B. Kelly, F. Hosseinali, D. Paudel. Relationship between individual fiber length and linear density within-sample. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 3-6, 2012, Orlando, FL. (poster).
88. D. Paudel, E. Hequet, **N. Abidi**, B. Kelly, R. Manandhar, F. Hosseinali. Within sample variability of fiber quality measurements. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 3-6, 2012, Orlando, FL.
89. B. Kelly, E. Hequet, **N. Abidi**, F. Hosseinali, R. Manandhar, D. Paudel. Decoding distributional changes in fiber quality during consecutive stages of processing. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 3-6, 2012, Orlando, FL.
90. F. Hosseinali, E. Hequet, **N. Abidi**, B. Kelly, R. Manandhar, D. Paudel. Determination of single fibers tensile properties: relationships with bundle strength, maturity, length distribution, and fiber breakage. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 3-6, 2012, Orlando, FL (poster).
91. F. Hosseinali, E. Hequet, **N. Abidi**, B. Kelly, R. Manandhar, D. Paudel. Variability of single cotton fiber tensile properties within and between samples. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 3-6, 2012, Orlando, FL.
92. L. Cabrales, **N. Abidi**, E. Hequet. Cellulose deposition in the secondary cell wall of cotton fibers investigated by different analytical techniques. 243rd American Chemical Society Meeting and Exposition, March 25-29, 2012, San Diego, CA.
93. **N. Abidi**, L. Cabrales, E. Hequet. Fourier Transform Infrared spectroscopy and X-Rays diffraction investigations of the cellulose structural changes and organization during different phases of cotton fibers development. 243rd American Chemical Society Meeting and Exposition, March 25-29, 2012, San Diego, CA.
94. **N. Abidi**, L. Cabrales. Cellulose deposition in the secondary cell wall of cotton fibers investigated by thermogravimetric analysis. 40th North American Thermal Analysis Society Conference, August 12-15, 2012, Orlando, FL.
95. **N. Abidi**, S. Li. Preparation and characterization of cellulose based aerogels. 40th North American Thermal Analysis Society Conference, August 12-15, 2012, Orlando, FL.
96. **N. Abidi**. Preparation, characterization, and functionalization of porous cellulose materials. Global Biofuels & Bioproducts Summit, November 19-21, 2012 San Antonio, TX.
97. R. Manandhar, E. Hequet, **N. Abidi**, B. Kelly, R. Boman, J. Wanjura. Effect of fiber maturity on fiber length distribution and yarn evenness properties. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 7-10, 2013, San Antonio, TX.

98. **N. Abidi**, S. Acharya, R. Rajbhandari, E. Hequet. Kinetic of dye adsorption on cationized cotton fabric. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 7-10, 2013, San Antonio, TX.
99. B. Kelly, E. Hequet, **N. Abidi**, R. Manandhar. Investigation on cotton fiber breakage. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 7-10, 2013, San Antonio, TX.
100. S. Li, **N. Abidi**, E. Hequet. Preparation, characterization, and functionalization of porous cellulose materials. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 7-10, 2013, San Antonio, TX.
101. Z. Ma, **N. Abidi**, E. Hequet, J. Chen. Multidisciplinary approach to investigate the effects of drought stress on cotton fiber quality. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 7-10, 2013, San Antonio, TX.
102. R. Rajbhandari, **N. Abidi**, E. Hequet. Evaluation of Quickspin for yarn Quality and dye uptake assessments. In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 7-10, 2013, San Antonio, TX.
103. **N. Abidi**, M. Manike. Investigations on cellulose deposition and organization during the biogenesis of primary and secondary cell walls in cotton fibers. 245th American Chemical Society National Meeting & Exposition, April 7-11, 2013, New Orleans, LA.
104. Z. Ma, **N. Abidi**, R. Rajbhandari, J. Chen. Effects of drought stress on the development of cellulose in cotton fibers studied by FTIR. 247th American Chemical Society Meeting and Exposition, March 16-20, 2014, Dallas, TX.
105. U. Agarwal, **N. Abidi**, S. Ralph. Cotton fiber development: Raman, IR, and XRD investigations. 247th American Chemical Society Meeting and Exposition, March 16-20, 2014, Dallas, TX.
106. S. Liyanage, **N. Abidi**. Characterization of guar galactomannan using FTIR, TGA, and HPLC techniques. 247th American Chemical Society Meeting and Exposition, March 16-20, 2014, Dallas, TX.
107. T. Jackson, S. Li, **N. Abidi**. Preparation, characterization, and cationization of cellulose aerogels. 247th American Chemical Society Meeting and Exposition, March 16-20, 2014, Dallas, TX.
108. **N. Abidi**. FTIR Microspectroscopy imaging technique and its applications for material characterization. 247th American Chemical Society Meeting and Exposition, March 16-20, 2014, Dallas, TX.
109. G.G. Tamas, T. Jackson, E. Quitevis, **N. Abidi**. Dissolution of cellulose in aryl alkyl imidazolium ionic liquids. 247th American Chemical Society Meeting and Exposition, March 16-20, 2014, Dallas, TX.
110. T. Jackson, S. Li, **N. Abidi**. Cellulose: Abundant biopolymer and precursor for the preparation of advanced biomaterials. 2014 Texas Tech Annual Biological Sciences Symposium, 28-29th March, Lubbock, TX.
111. S. Sumedha, **N. Abidi**, D. Auld. Extraction and characterization of galactomannan from guar seeds. 2014 Texas Tech Annual Biological Sciences Symposium, 28-29th March, Lubbock, TX.
112. S. Sumedha, **N. Abidi**, D. Auld. Galactomanna extracted from guar seeds: Chemistry and thermal stability. Fracturing Impacts and Technologies, September 4-5, 2014, Lubbock, TX.

113. **N. Abidi**, S. Sumedha, E. Hequet. Cellulose deposition and organization investigated by Gel Permeation Chromatography and X-Ray diffraction. . In: Proc. Beltwide Cotton Conferences, National Cotton Council, January 5-7, 2015, San Antonio, TX.
114. S.P. Liyanage, **N. Abidi**. On the combination of NaOH activation and DMAc/LiCl dissolution of cellulose from cotton fibers during different stages of fiber development. 249th American Chemical Society Meeting and Exposition, March 22-26, 2015, Denver, CO.
115. S. Sanjit, **N. Abidi**. Effective dissolution of cellulose for making electrically-responsive films. 249th American Chemical Society Meeting and Exposition, March 22-26, 2015, Denver, CO.
116. P.T. Wansapura, **N. Abidi**, T. Jackson, Y. Hu, E.L. Quitevis. Dissolution, regeneration, and characterization of cellulose and cellulose/chitin in ionic liquid. 249th American Chemical Society Meeting and Exposition, March 22-26, 2015, Denver, CO.
117. E. Gurung, K. Mendoza, G. Thomas, R. Bari, T. Jackson, P.T. Wansapura, M. Green, **N. Abidi**, E.L. Quitevis. Dissolution of cellulose and exfoliation of graphene by aralkylimidazolium based ionic liquids. 249th American Chemical Society Meeting and Exposition, March 22-26, 2015, Denver, CO.
118. P.T. Wansapura, **N. Abidi**. Preparation and characterization of cellulose-chitin hybrid materials. 27th Annual Meeting of the Association for the Advancement of Industrial Crops, October 18-22, 2015 Lubbock, TX.
119. S. Acharya, Y. Hu, **N. Abidi**. Preparation and characterization of cellulose films in n,n-dimethyl acetamide/lithium chloride (DMAc/LiCl): effect of drying method of cellulose and its concentration. 27th Annual Meeting of the Association for the Advancement of Industrial Crops, October 18-22, 2015 Lubbock, TX.
120. Y. Hu, **N. Abidi**. Acetic acid assisted dissolution of raw cotton fiber. 27th Annual Meeting of the Association for the Advancement of Industrial Crops, October 18-22, 2015 Lubbock, TX.
121. R.S. Dasanayake, C. Gunathilake, T. Jackson, M. Jaroniec, **N. Abidi**. CO₂ capture at ambient temperature by aerocellulose-derived activated carbon monoliths. 27th Annual Meeting of the Association for the Advancement of Industrial Crops, October 18-22, 2015 Lubbock, TX.
122. S. Liyanage, **N. Abidi**, E. Rajakaruna. Cell wall organization and molecular characterization of developing cotton fibers in two cotton varieties. 27th Annual Meeting of the Association for the Advancement of Industrial Crops, October 18-22, 2015 Lubbock, TX.
123. R.K. Imel-Visel, **N. Abidi**, R.B. Williams, D.L. Auld. Agronomic and economic analysis of guar (*Cyamopsis tetragonoloba L.*) in comparison to drought tolerant crops adapted to the Texas High Plains. 27th Annual Meeting of the Association for the Advancement of Industrial Crops, October 18-22, 2015 Lubbock, TX.
124. **N. Abidi**, S. Acharya, P. Wansapura, N. Dissanayake, Y. Hu, R. Dassanayake. Cellulose Dissolution: Promising approach for the preparation of composite materials. The Fiber Society 2016 Spring Conference. May 25-26, 2016. Mulhouse, France.
125. **N. Abidi**, P. Kiekens, Functionalization of cotton fabric to impart multifunctional properties, 16th World Textile Conference: AUTEX 2016, 8-10 June, 2016, Ljubljana, Slovenia.

126. **N. Abidi**, S. Acharya, P. Wansapura, N. Dissanayake, Y. Hu, R. Dassanayake. Cellulose dissolution: promising approach for the preparation of composite materials. 3rd International Conference and Exhibition on Biopolymers and Bioplastics, September 12-14, 2016, San Antonio, TX (invited).
127. **N. Abidi**, Y. Hu, S. Acharya, P. Wansapura, N. Dissanayake, R. Dassanayake, S. Moussa. Cotton Cellulose: Perfect Precursor for Bioproducts Development. Symposium – Enabling Fiber Productivity Increases through Multidisciplinary Innovations, ASA CSSA SSSA International Conference, November 6-9, 2016, Phoenix, Arizona (invited).
128. Y. Hu, S. Acharya, **N. Abidi**. Acetic acid as a pre-catalyst to promote cellulose dissolution (poster). 253rd American Chemical Society Meeting and Exposition, April 2-6, 2017, San Francisco, CA.
129. Y. Hu, **N. Abidi**. Different size-unified cellulose nanocrystals obtained via a multistage separation. 253rd American Chemical Society Meeting and Exposition, April 2-6, 2017, San Francisco, CA.
130. S. Acharya, Y. Hu, **N. Abidi**. Insight into mild condition dissolution of high molecular weight cellulose in ionic liquid based solvent system. 253rd American Chemical Society Meeting and Exposition, April 2-6, 2017, San Francisco, CA.
131. P. Wansapura, N. Abidi, R. Dassanayake, A. Hamood, P. Tran. Preparation of cellulose and chitin-CdTe quantum dots films and antibacterial effect on *Staphylococcus aureus* and *Pseudomonas aeruginosa*. 253rd American Chemical Society Meeting and Exposition, April 2-6, 2017, San Francisco, CA.
132. S. Liyanage, A. Bouyanfif, L. Ramalingam, N. Moustaid-Moussa, **N. Abidi**. FTIR microspectroscopy imaging reveals changes in adipose tissues and liver induced by high-fat diet. 253rd American Chemical Society Meeting and Exposition, April 2-6, 2017, San Francisco, CA.
133. S. Liyanage, A. Bouyanfif, L. Ramalingam, N. Moustaid-Moussa, **N. Abidi**. FTIR applications to study obesity-associated biochemical changes in adipose and liver tissues. 73rd Annual Southwest Regional Meeting American Chemical Society, October 29-November 1, 2017, Lubbock, TX.
134. A. Bouyanfif, S. Liyanage, J.E. Hewitt, S.A. Vanapalli, N. Moustaid-Moussa, E. Hequet, **N. Abidi**. FTIR imaging detects diet and genotype-dependent changes in chemical composition in wild type and mutant *C. elegans* strains. 73rd Annual Southwest Regional Meeting American Chemical Society, October 29-November 1, 2017, Lubbock, TX.
135. P. Parajuli, S. Liyanage, H. Rajakaruna, L. Ramalingam, N. Moustaid-Moussa, **N. Abidi**. Application of FTIR microspectroscopy imaging to study oxidative damage occurring in mouse white adipose tissue. 73rd Annual Southwest Regional Meeting American Chemical Society, October 29-November 1, 2017, Lubbock, TX.
136. **N. Abidi**. Cellulose in cotton fibers: structural development and transformation to bioproducts. 73rd Annual Southwest Regional Meeting American Chemical Society, October 29-November 1, 2017, Lubbock, TX.
137. S. Liyanage, **N. Abidi**, E. Rajakaruna. Changes in molecular weight of cellulose and distribution in cotton fibers during development. 73rd Annual Southwest Regional Meeting American Chemical Society, October 29-November 1, 2017, Lubbock, TX.

138. V. Thalangamaarachchige, N. Dissanayake, E.L. Quitevis, **N. Abidi**. Physicochemical properties approach to understanding cellulose dissolution in ionic liquids. 73rd Annual Southwest Regional Meeting American Chemical Society, October 29-November 1, 2017, Lubbock, TX.
139. Y. Hu, S. Acharya, **N. Abidi**. Promoting the dissolution of high molecular weight cellulose using low-concentration acetic acid. 73rd Annual Southwest Regional Meeting American Chemical Society, October 29-November 1, 2017, Lubbock, TX.
140. S. Acharya, Y. Hu, **N. Abidi**. On the dissolution of pre-hydrolyzed high molecular weight cellulose in ionic liquid based solvent. 73rd Annual Southwest Regional Meeting American Chemical Society, October 29-November 1, 2017, Lubbock, TX.
141. N. Dissanayake, V.D. Thalangamaarachchige, T. Jackson, S. Troxell, Y. Zhang, E. Quitevis, **N. Abidi**. Cellulose dissolution in imidazolium-based ionic liquids: substituent effects. 73rd Annual Southwest Regional Meeting American Chemical Society, October 29-November 1, 2017, Lubbock, TX.
142. R.S. Dassanayake, C. Gunathilake, A.C. Dassanayake, M. Jaroniec, **N. Abidi**, Aerocellulose-derived activated carbon monoliths and Amidoxime-Functionalized Nanocrystalline Cellulose-Mesoporous Silica Composites for Carbon Dioxide Sorption at Low and Elevated Temperatures. 73rd Annual Southwest Regional Meeting American Chemical Society, October 29-November 1, 2017, Lubbock, TX.
143. S. Liyanage, A. Bouyanfif, L. Ramalingam, N. Moustaid-Moussa, **N. Abidi**. FTIR microspectroscopy imaging shows obesity-induced biochemical changes in white adipose tissues. 73rd Annual Southwest Regional Meeting American Chemical Society, October 29-November 1, 2017, Lubbock, TX (poster).
144. A. Bouyanfif, S. Liyanage, J.E. Hewitt, S.A. Vanapalli, N. Moustaid-Moussa, E. Hequet, **N. Abidi**. FTIR imaging detects diet and genotype-dependent changes in chemical composition in wild type and mutant *C. elegans* strains. 255th American Chemical Society National Meeting and Exposition, March 18-22, 2018, New Orleans, LA.
145. R.S. Dassanayake, C. Gunathilake, A.C. Dassanayake, M. Jaroniec, **N. Abidi**. 255th American Chemical Society National Meeting and Exposition, March 18-22, 2018, New Orleans, LA.

GRANTS AND AWARDS

Total funded \$16,004,051 (amount credited to Abidi: \$6,109,519)

01/01/2000–12/31/2000: total funded \$95,680 (amount credited to Abidi: \$31,893)

1. Co-PI, Investigation of measurement and treatment of stickiness and other cotton contaminant, Texas Food and Fiber Commission, \$29,700 (33%).
2. Co-PI, Establish reliable measurement for stickiness and enable improved management of stickiness in cotton fibers, Cotton Incorporated, \$95,680 (33%).
3. PI, Development of new products, blends, and fabrics construction which emphasize Texas natural fibers. Texas Food and Fiber Commission, \$30,000 (50%).

01/01/2001–12/31/2001: total funded \$258,205 (amount credited to Abidi: \$126,500)

1. PI, Imparting multifunctional properties to cotton fabrics using plasma technology, Texas Food and Fiber Commission, \$100,240 (100%).

2. PI, Development and evaluation of measurements of properties and contaminants for fibers, yarns, and fabrics. Texas Food and Fiber Commission, \$52,500 (25%).
3. Co-PI, Establish reliable measurement for stickiness and enable improved management of stickiness in cotton fibers. Cotton Incorporated, \$95,885 (40%).

01/01/2002–12/31/2002: total funded \$80,076 (amount credited to Abidi: \$40,038)

1. Co-PI, Establish reliable measurement for stickiness and enable improved management of stickiness in cotton fibers, Cotton Incorporated, \$80,076 (50%).
2. PI, Development and evaluation of measurements of properties and contaminants for fibers, yarns, and fabrics. Texas Food and Fiber Commission, \$52,500 (20%).

01/01/2003–12/31/2003: total funded \$85,232 (amount credited to Abidi: \$78,176)

1. Co-PI, Establish reliable measurement for stickiness and enable improved management of stickiness in cotton fibers, Cotton Incorporated, \$35,112 (50%).
2. PI, Development of new products, blends, treatments, and fabric constructions, which emphasize Texas natural fibers, Texas Food and Fiber Commission, \$90,000 (90%).
3. Co-PI, Development and evaluation of measurements of properties and contaminants for fibers, yarns, and fabrics, Texas Food and Fiber Commission, \$90,000 (20%).

01/01/2004–12/31/2004: total funded \$245,224 (amount credited to Abidi: \$112,544)

1. Co-PI, Establish reliable measurement for stickiness and enable improved management of stickiness in cotton fibers, Cotton Incorporated, \$36,081 (50%).
2. Co-PI, Evaluation of sensing devices for fabric shrinkage and fabric smoothness measurements, Cotton Incorporated, \$60,180. (20%).
3. Co-PI, Evaluation of sensing devices for fabric shrinkage and fabric smoothness measurements, Cotton Incorporated, \$6,025. 20%.
4. Co-PI, Using fiber elongation to improve genetic screening in cotton breeding programs, USDA/ICRC, \$52,938. 60%.

01/01/2005–12/31/2005: total funded \$354,472 (amount credited to Abidi: \$172,680)

1. Co-PI, Establish reliable measurement for stickiness and enable improved management of stickiness in cotton fibers, Cotton Incorporated, \$30,333. 50%.
2. Co-PI, Evaluation of sensing devices for fabric shrinkage and fabric smoothness measurements, Cotton Incorporated, \$78,973. 20%.
3. Co-PI, Using fiber elongation to improve genetic screening in cotton breeding programs. USDA/ICRC, \$56,435. 60%.
4. PI, Cotton fabric functionalization using plasma and sol-gel technologies. Texas Department of Agriculture/Food and Fiber Research Program, \$50,000. 80%.
5. Co-PI, Evaluation of testing methods for cotton breeders and biotechnologists, Texas Department of Agriculture/Food and Fiber Research Program, \$20,000. 20%.
6. Co-PI, Acquisition of a cryo ultramicrotome, Texas Department of Agriculture/Food and Fiber Research Program, \$40,774. 50%.
7. Co-PI, Evaluation of sensing devices for fabric shrinkage and fabric smoothness measurements, Cotton Incorporated, \$87,484. 20%.

01/01/2006–12/31/2006: total funded \$2,249,631 (amount credited to Abidi: \$224,002)

1. Co-PI, Establish reliable measurement for stickiness and enable improved management of stickiness in cotton fibers, Cotton Incorporated, \$31,292. 60%.
2. Co-PI, The International Center of Excellence in Agricultural Genomics & Biotechnology, Emerging Technology Fund, \$1,949,000. 3%.
3. Co-PI, ICRC 2006-International Cotton Research Center Program. USDA ICRC, \$69,498. 100%.
4. PI, Multidisciplinary approach to study cotton fiber maturity. Texas Department of Agriculture/Food and Fiber Research program, \$35,000. 65%.
5. PI, Functionalization of cotton fabric surface. Texas Department of Agriculture/Food and Fiber Research Program, \$35,000. 60%.
6. Co-PI, Incorporating fiber elongation in cotton breeding programs. Texas Department of Agriculture/Food and Fiber Research Program, \$30,389. 33%.
7. Co-PI, Evaluation of sensing devices for fabric shrinkage and fabric smoothness, Cotton Incorporated, \$87,484. 20%.

01/01/2007-12/31/2007: total funded \$403,015 (amount credited to Abidi: \$133,343)

1. Co-PI, Data mining in cotton fiber quality databases, Cotton Incorporated, \$35,232. 20%.
2. Co-PI, Spinning limits of high quality Upland cotton, Cotton Incorporated, \$51,782. 30%.
3. Co-PI, Evaluation of sensing devices for fabric shrinkage and fabric smoothness, Cotton Incorporated, \$77,957. 20%.
4. Co-PI, Evaluation of testing methods for cotton breeders and biotechnologists with emphasis on cotton fiber maturity, Cotton Incorporated, \$100,426. 30%.
5. Co-PI, Investigate non-HVI fiber properties and their relationships with fiber quality, Delta&Pine Land, \$19,096. 50%.
6. PI, Imparting antibacterial properties to cotton fabrics through functionalization with cyclodextrins, Texas Department of Agriculture/Food and Fiber Research Program, \$70,000. 70%.
7. Co-PI, Incorporating fiber elongation in cotton breeding programs, Texas Department of Agriculture/Food and Fiber Research Program, \$30,389. 33%.
8. PI, Multidisciplinary approach to study cotton fiber maturity. Texas Department of Agriculture/Food and Fiber Research Program, \$35,000. 34%.
9. Co-PI, Single fiber strength, crimp, and linear density measurements using Favimat, Texas Department of Agriculture/Food and Fiber Research Program, \$18,133. 50%.

01/01/2008-12/31/2008: total funded \$2,506,332 (amount credited to Abidi: \$201,537)

1. Co-PI, Spinning limits of high quality Upland cottons, Cotton Incorporated, \$81,782. 30%.
2. Co-PI, Data mining in the cotton fiber quality databases, Cotton Incorporated, \$35,313. 20%.
3. Co-PI, Evaluation of testing methods for cotton breeders and biotechnologists with special emphasis on fiber maturity, Cotton Incorporated, \$110,708. 30%.
4. Co-PI, The International Center of Excellence in Agricultural Genomics & Biotechnology, Emerging Technology Fund, \$97,450. 3%.

5. Co-PI, MRI: Acquisition of a nanocoating system for engineering surfaces, National Science Foundation/Major Research Instrumentation, \$275,000. 20%.
6. Co-PI, International Cotton Research Center Program – 2008, USDA ICRC, \$34,501. 100%.
7. PI, Understanding and improving moisture management properties of cotton fabric, Cotton Incorporated, \$8,050. 70%.
8. PI, Fourier Transform Infrared analysis of acramite on corn leaves. Chemtura Crop Protection, \$6,000. 100%.
9. Co-PI, Evaluation of testing methods for cotton breeders and biotechnologists with special emphasis on cotton fiber maturity, Cotton Incorporated, \$11,510. 30%.
10. PI, Imparting antibacterial property to cotton fabric through functionalization with cyclodextrins, Texas Department of Agriculture/Food and Fiber Research Program, \$35,000. 70%.
11. Co-PI, Incorporating fiber elongation in cotton breeding programs, Texas Department of Agriculture/Food and Fiber Research Program, \$30,389. 33%.
12. PI, Multidisciplinary approach to study cotton fiber maturity, Texas Department of Agriculture/Food and Fiber Research Program, \$35,000. 34%.
13. Co-PI, Single fiber strength, crimp, and linear density measurements using FAVIMAT, Texas Department of Agriculture/Food and Fiber Research Program, \$20,573. 50%.

01/01/2009-12/31/2009: total funded \$597,663 (amount credited to Abidi: \$245,223)

1. Co-PI, Spinning limits of high quality Upland cottons, Cotton Incorporated, \$100,050. 30%.
2. Co-PI, Evaluation of testing methods for cotton breeders and biotechnologists with special emphasis on fiber maturity, Cotton Incorporated, \$100,914. 30%.
3. Co-PI, Data mining in the cotton fiber quality databases, Cotton Incorporated, \$35,419. 20%.
4. Co-PI, Improving fiber elongation of U.S. germplasm, Cotton Incorporated-State Support Committee, \$22,254. 25%.
5. PI, Multidisciplinary approach to study cotton fiber maturity, Texas Department of Agriculture/Food and Fiber Research Program, \$29,280. 80%.
6. PI, New approach to impart super-oleophobic /hydrophobic properties for self-cleaning cotton fabrics, Texas Department of Agriculture/Food and Fiber Research Program, \$28,180. 80%.
7. PI, A rapid measurement method for studying cotton fibers secondary cell wall development, Cotton Foundation, \$8,000. 70%.
8. Co-PI, Determination of individual fibers tensile properties: relationships with bundle strength maturity, length distribution, and fiber breakage, Texas Department of Agriculture/Food and Fiber Research Program, \$30,000. 30%.
9. Co-PI, Optimizing the use of the Advanced Fiber Information System, Texas Department of Agriculture/Food and Fiber Research Program, \$30,000. 30%.
10. Co-PI, International Cotton Research Center Program, USDA ICRC, \$32,386. 100%.
11. Co-PI, Spinning limits of high quality upland cottons, Cotton Incorporated. \$110,055. 30%.

12. Co-PI, Evaluation of testing methods for cotton breeders and biotechnologists with special emphasis on cotton fiber maturity, Cotton Incorporated, \$100,971. 30%.

01/01/2010-12/31/2010: total funded \$1,237,078 (amount credited to Abidi: \$760,728)

1. PI, Cellulose-derived bioproducts: a new generation of smart biomaterials, USDA ICRC, \$55,238. 80%.
2. Co-PI, Bringing a portion of Texas plains cotton into premium yarn markets, USDA ICRC \$51,517. 30%.
3. Co-PI, Evaluating the tensile properties of cotton fibers and their impact on short fiber content, USDA ICRC, \$53,944. 30%.
4. PI, Characterization of cotton fiber with improved reactivity, Bayer Crop Science, \$758,359. 80%.
5. Co-PI, Development of a micro-spinning protocol to characterize spinning properties of cotton fibers, Bayer Crop Science, \$108,469. 10%.
6. PI, Multidisciplinary approach to study cotton fiber maturity, Texas Department of Agriculture/Food and Fiber Research Program, \$34,474. 80%.
7. PI, New approach to impart super-oleophobic /hydrophobic properties for self-cleaning cotton fabrics, Texas Department of Agriculture/Food and Fiber Research Program, \$35,574. 80%.
8. Co-PI, Determination of individual fibers tensile properties: relationships with bundle strength maturity, length distribution, and fiber breakage, Texas Department of Agriculture/Food and Fiber Research Program, \$18,215. 30%.
9. Co-PI, Optimizing the use of the Advanced Fiber Information System, Texas Department of Agriculture/Food and Fiber Research Program, \$27,323. 30%.
10. Co-PI, Spinning limits of high quality Upland cottons, Cotton Incorporated. \$13,000. 10%.

01/01/2011-12/31/2011: total funded \$2,479,220 (amount credited to Abidi: \$1,433,276)

1. PI, Improving fiber testing methods for cotton breeders, Cotton Incorporated, \$182,488. 30%.
2. PI, Spinning limit of high quality Upland cottons, Cotton Incorporated, \$110,400. 30%.
3. Co-PI, Partial funding of purchase of the CottonScope, Plains Cotton Growers Association, \$25,000. 50%.
4. Co-PI, Purchase of laboratory instrumentation, Bayer CropScience, \$999,695. 44%.
5. PI, Research to enhance the quality and competitiveness of Texas cotton fibers. Texas Department of Agriculture, \$180,000. 37%.
6. Co-PI, Supplement: Spinning limits of high quality Upland cottons. Cotton Incorporated, \$20,000. 30%.
7. PI, Setting up cell wall biochemistry laboratory and routine analysis of chitin producing fibers. Bayer CropScience, \$650,530. 100%.
8. PI, Spectroscopic approach to study cotton fiber maturity. Cotton Incorporated Texas State Support Committee, \$35,000. 80%.
9. PI, Analyzing the effect of drought stress on traits contributing to cotton fiber quality. USDA, \$20,000. 80%
10. PI, Microspinning protocol-Phase II Dye uptake evaluation. Bayer CropScience, \$247,507. 50%.

01/01/2012-12/31/2012: total funded \$694,431 (amount credited to Abidi: \$180,086.20)

1. Co-PI, Improving fiber testing methods for cotton breeders, Cotton Incorporated, \$160,121. 20%.
2. Co-PI, Improving fiber testing methods for cotton breeders, Cotton Incorporated, \$160,365. 20%.
3. Co-PI, Improving fiber testing methods for cotton breeders, Cotton Incorporated, \$10,000. 20%.
4. PI, Spectroscopic approach to study cotton fiber maturity, Cotton Incorporated-Texas State Support Committee, \$31,500. 100%.
5. Co-PI, Validation of the CottonScope, Cotton Incorporated, \$50,386. 20%.
6. Co-PI, Validation of the CottonScope, Cotton Incorporated, \$50,548. 20%.
7. Co-PI, Effect of within-plant variability on fiber quality and spinning performances. Cotton Incorporated, \$106,294, 20%.
8. Co-PI, Effect of within-plant variability on fiber quality and spinning performances. Cotton Incorporated, \$105,217, 20%.
9. PI, Analyzing the effect of drought stress on traits contributing to cotton fiber quality, USDA, \$20,000. 100%.

01/01/2013- 12/31/2013: total funded \$1,253,609 (amount credited to Abidi: \$1,016,809)

1. N. Abidi, Spectroscopic approach to study cotton fiber maturity, Cotton Incorporated-Texas State Support Committee, \$31,500. 100%.
2. E. Hequet, N. Abidi, Effect of within-plant variability on fiber quality and spinning performances. Cotton Incorporated, \$105,501. 20%.
3. E. Hequet, N. Abidi, Improving fiber testing methods for cotton breeders, Cotton Incorporated, \$190,499. 20%.
4. N. Abidi, Cell wall startup equipment, Texas Research Incentive Program, \$250,000. 100%.
5. N. Abidi, Evaluation of the feasibility to engineer wrinkle resistance as a new trait in cotton fiber, Texas Research Incentive Program, \$511,589. 100%.
6. N. Abidi, Cell wall biochemistry, Texas Research Incentive Program, \$164,520. 100%.

01/01/2014- 12/31/2014: total funded \$1,060,713 (amount credited to Abidi: \$394,311)

1. N. Abidi, Spectroscopic approach to study cotton fiber maturity, Cotton Incorporated, \$25,000. 100%.
2. E. Hequet, N. Abidi. Effect of within-plant variability on fiber quality and spinning performances. Cotton Incorporated, \$111,579, 20%.
3. E. Hequet, N. Abidi, B. Kelly. Improving fiber testing methods for cotton breeders. \$160, 254. 20%.
4. D. Ethridge, N. Abidi. Foam Indigo dyeing of cotton yarns: Machine design and process control. WalMart Foundation, \$472,564. 5%.
5. N. Abidi, Assessment of dye uptake of transgenic fibers. Texas Research Incentive Program, \$172,416. 100%.
6. N. Abidi, Cotton fabric functionalized with PUD. Phase 1: Evaluation of the performance of the treated fabric, Bayer CropScience, \$118,900. 100%.

01/01/2015- 12/31/2015: total funded \$381,424 (amount credited to Abidi: \$200,732)

1. D. Ethridge, N. Abidi, Cochran Program USDA Foreign Agricultural Service, \$24,465, 5%.
2. N. Abidi, Fulbright: Program development in biopolymers and bioproducts, Fulbright US Scholar Program, \$17,859. 100%.
3. N. Abidi, Cellulose dissolution and regeneration using ionic liquids, TRIP Bayer CropScience. Year 1: \$97,100. 100%.
4. E. Hequet, B. Kelly, N. Abidi, Improving tensile properties of cotton, TRIP Bayer CropScience. Year 1: \$75,000. 33%.
5. G. Ritchie, E. Hequet, N. Abidi, Improving TTU cotton research infrastructures to position TTU as the Tier One research University. Year 1: \$160,000. 33%.
6. N. Abidi, H. Moussa, L. Ramalingam, Developing FTIR imaging for nutrition and obesity research. Obesity Research Cluster, \$7,000. 34%.

01/01/2016- 12/31/2016: total funded \$586,958 (amount credited to Abidi: \$295,487)

1. N. Abidi, Cellulose dissolution and regeneration using ionic liquids, TRIP Bayer CropScience. Year 2: \$101,926. 100%.
2. E. Hequet, B. Kelly, N. Abidi, Improving tensile properties of cotton, TRIP Bayer CropScience. Year 2: \$95,000. 33%.
3. G. Ritchie, E. Hequet, N. Abidi, Improving TTU cotton research infrastructures to position TTU as the Tier One Research University. Year 2: \$180,000. 33%.
4. N. Abidi, Spectroscopic approach to study cotton fiber maturity, Cotton Incorporated, \$25,000. 100%.
5. **N. Abidi**, Spectroscopic approach to study cotton fiber maturity, Cotton Incorporated Texas State Support Committee. \$25,000 (100%).
6. E. Hequet, B. Kelly, **N. Abidi**. Maturity and standard fineness: determination, calibration, and use, Cotton Incorporated. \$160,032 (33%).

01/01/2017 – 12/31/2017: total funded \$935,556 (amount credited to Abidi: \$237,087)

1. **N. Abidi**, Y. Hu, Developing bioproducts from low maturity cotton and cotton wastes, Cotton Incorporated Texas State Support Committee. \$20,000 (50%).
2. D. Ethridge, **N. Abidi**, Foam Indigo dyeing of cotton yarns: Machine design and process control. WalMart Foundation, \$474,999 (10%).
3. E. Hequet, B. Kelly, **N. Abidi**, Maturity and standard fineness: determination, calibration, and use, Cotton Incorporated, \$160,032 (33%).
4. B. Kelly, **N. Abidi**, Build a yarn quality prediction model from High Volume Instrument (HVI) and Advanced Fiber Information System (AFIS) measurements for implementation into the IMAmt breeding program. Instituto Matogrossense do Algodao. \$100,000 (50%).
5. **N. Abidi**, Spectroscopic approach to study cotton fiber maturity, Cotton Incorporated, Texas State Support Committee, \$25,000 (100%).
6. B. Kelly, **N. Abidi**, Textile Performance evaluation of selected high plains cotton varieties, Plains Cotton Growers Association, \$45,000 (25%).
7. **N. Abidi**, P.W. Jayawickrama, Cotton-derived composite materials for climate resilient transportation infrastructure. \$210,525 (5%).

01/01/2018 – 08/29/2018: total funded \$477,032 (amount credited to Abidi: \$225,061)

1. **N. Abidi**, Spectroscopic approach to study cotton fiber maturity, Cotton Incorporated, Texas State Support Committee, \$25,000 (100%).
2. E. Hequet, B. Kelly, **N. Abidi**, Maturity and standard fineness: determination, calibration, and use, Cotton Incorporated, \$160,032 (33%).
3. **N. Abidi**, Y. Hu, Developing bioproducts from low maturity cotton and cotton wastes, Cotton Incorporated Texas State Support Committee. \$25,000 (50%)
4. B. Kelly, **N. Abidi**, Textile Performance evaluation of selected high plains cotton varieties, Plains Cotton Growers, \$45,000 (25%).
5. E. Hequet, **N. Abidi**, Valuation of products and materials for fiber conditioning research. Samuel Jackson, Incorporated. \$197,000. (50%).
6. **N. Abidi**, Development of foam Indigo dyeing of cotton yarns-phase 1. Indigo Mill Designs, LLC. \$25,000 (100%).

Other funded projects total career: \$168,208 (amount credited to Abidi: \$144,758)

2000

1. PI, Purchase of Quickwash Plus for accelerated fabric dimensional stability Testing, CH Foundation. \$20,000. 100%.

2002

1. PI, Purchase of Elmendorf Tearing Tester, CH Foundation, \$16,436. 100%.

2003

1. PI, Purchase of Accelerated Light Stability and Weathering Instrument, CH Foundation, \$22,900. 100%.

2004

1. PI, Acquisition of an Universal Strength Tester. CH Foundation, \$25,000. 100%.
2. PI, Cotton fabric surface functionalization using sol-gel technology. Texas Tech University/Office of Research Services, \$17,272. 34%.

2006

1. PI, Purchase of a Contact Angle Measurement Instrument. CH Foundation, \$12,000. 100%.
2. PI, Purchase of an UV-Visible Spectrophotometer. CH Foundation, \$19,600. 100%.

2008

1. Co-PI, Nanocoatings for medical applications, textiles, and micro devices. Texas Tech University/Office of Research Services, \$35,000. 33%.