

Suraj Sharma

Curriculum Vitae

Position Professor, Department of Textiles, Merchandising, and Interiors, University of Georgia
Email ssharma@uga.edu
Phone 706-542-7353
Address Department of Textiles, Merchandising, and Interiors, Dawson Hall, 305 Sanford Dr,
Athens, GA, 30602, United States

Biographical Sketch

Suraj Sharma is Professor of Polymer, Fiber and Textile Sciences in the Department of Textiles, Merchandising, and Interiors within the College of Family and Consumer Sciences. Sharma's background includes materials science and engineering, specifically polymeric materials. His primary research focuses on the development of bioplastics/biocomposites from biopolymers, nanocellulose, biosynthesis of polyesters using microalgae and smart textiles.

Professional Experience

Aug 2020–Present Professor, Department of Textiles, Merchandising, and Interiors, University of Georgia, Georgia
Oct 2011–Present Member, New Materials Institute, University of Georgia, Georgia
Apr 2009–Present Graduate Program Faculty, Department of Textiles, Merchandising, and Interiors, University of Georgia, Georgia
Aug 2016–Jul 2019 Graduate Coordinator, TMI, University of Georgia, Athens, Athens, United States
Aug 2015–Aug 2020 Associate Professor, Department of Textiles, Merchandising, and Interiors, University of Georgia, Georgia
Aug 2008–Aug 2015 Assistant Professor, Department of Textiles, Merchandising, and Interiors, University of Georgia, Georgia

Education/Degrees

2008 Doctor of Philosophy, Materials Science, Clemson University, SC, United States
1997 Master of Science, Textile Sciences and Engineering, Indian Institute of Technology, Delhi, India
1994 Bachelor of Science, Textile Sciences and Engineering, University of Rajasthan, India

Honors/Awards

Dec 2013 TMI teacher of the year nomination
Feb 2012 TMI Teacher of the Year, TMI

Jan 2012 Research Productivity award from college

Invited Presentation/Seminars

- 16 Jul 2020 3D printing for Food Products and Much More, Georgia Association Career and technical Education (GACTE) conference, Virtual
Sharma, S (Workshop)
- 30 Jan 2020 Knowing Your Fabric, GATFACS, Savannah, GA
Sharma, S (Workshop)
- 28 Oct 2019 The Sustainable and Eco-friendly Dyeing/Coating of Cotton with Indigo-Nanocellulose Gel, Fall 2019 Fiber Society Conference, Austin, TX
Minko, S; Sharma, S (Conference)
- 21 Oct 2019 Nanocellulose based functional textile coatings, 2019 ACS South East Regional Meeting, Savannah, GA
Minko, S; Sharma, S (Conference)
- 19 Jul 2016 Nanocellulose-based dyeing: a more sustainable way to dye textiles, American Apparel & Footwear Association Environmental Committee Meeting, Austin, TX
Kim, Y; Mani, S; Minko, S; Saremi, R; Sharma, S (Conference)
- 28 Jun 2016 Efficient, Sustainable, and Scalable Textile Dyeing Technology Using Nanocellulosic Fibers, Textile innovation meeting in Walmart U.S. Manufacturing Summit, Bentonville, AR
Kim, Y; Mani, S; Minko, S; Saremi, R; Sharma, S (Conference)
- 07 Nov 2014 Sustainable Biomaterials, Athens, GA
Sharma, S (Other)
- 07 Oct 2014 The Polymers and Fiber Program at the University of Georgia
Sharma, S (Other)
- 19 Oct 2011 Bioplastics from Algae Biomass, Global Plastics Environmental Conference (GPEC) 2011, Atlanta, GA
Sharma, S (Conference)
- 15 Apr 2011 Microencapsulation Technology Using Essential Oils to Produce Smart Textile Functionalities that Improve Human Health, Washington DC
Sharma, S (Other)
- 07 Jan 2011 Microencapsulation Technology Using Essential Oils to Produce Durable Textile Functionalities, Beltwide Cotton Conferences, Atlanta, GA
Sharma, S (Conference)

Poster Presentations

- 08 Nov 2017 Natural Indigo-based Nanocellulose Gel Dyeing of Cotton Textiles, The Fiber Society 2017 Fall Meeting and Technical Conference
Sharma, S (International)
- 08 Nov 2017 Polyhydroxyalkanoate-based Nanofibrous Structures and Their Application in the Biomedical Field, The Fiber Society 2017 Fall Meeting and Technical Conference
Banerjee, A; Sharma, S (International)

08 Nov 2017 PVDF Nanofibers with High Piezoelectric Performance via Touch Spinning, The Fiber Society 2017 Fall Meeting and Technical Conference
Gao, H; Sharma, S (International)

08 Nov 2017 New Polymer Resin from Camelina Oil for Packaging Application, The Fiber Society 2017 Fall Meeting and Technical Conference
Sharma, S (International)

22 Oct 2016 Development, processing, and novel applications of sustainable nanocellulose gel, 2015 TAPPI International Conference on Nanotechnology for Renewable Materials, Atlanta, GA
Hardin, IR; Kim, Y; Minko, S; Sharma, S (International)

20 Oct 2016 Polyhydroxyalkanoate based Nano fibrous structures and their application in Biomedical field, Advanced Functional Fabrics of America (AFFOA) Industry Day, Athens, GA
Banerjee, A; Sharma, S (National)

20 Oct 2016 Nanocellulose Hydrogels for Functional Coating Materials in Textile Applications, Advanced Functional Fabrics of America (AFFOA) Industry Day, Athens, GA
Gruzd, AS; Hardin, IR; Kim, Y; Minko, S; Sharma, S (Regional)

20 Oct 2016 Sustainable Textile Dyeing Based on Nanocellulose Hydrogels and Reactive Dyes, Advanced Functional Fabrics of America (AFFOA) Industry Day, Athens, GA
Hardin, IR; Kim, Y; Mani, S; Minko, S; Saremi, R; Sharma, S (Regional)

20 Oct 2016 Flexible piezoelectric textile as wearable energy harvester, AFFOA Industry Day
Gao, H; Sharma, S (Regional)

10 Oct 2016 Nanocellulose Functional Coatings on Fabric Surface, The Fiber Society 2016 Fall Meeting and Technical Conference, Ithaca, NY
Hardin, IR; Kim, Y; Minko, S; Saremi, R; Sharma, S (National)

11 Aug 2016 Smart Fabrics and Advanced Textiles in the Consumer Market, GEAFC Meeting, Cordele, Ga
Sharma, S (Regional)

19 Jul 2016 Nanocellulose-based dyeing: a more sustainable way to dye textiles, American Apparel & Footwear Association Environmental Committee Meeting, Austin, TX
Hardin, IR; Kim, Y; Mani, S; Minko, S; Saremi, R; Sharma, S (National)

28 Jun 2016 Efficient, Sustainable, and Scalable Textile Dyeing Technology Using Nanocellulosic Fibers, Textile innovation meeting in Walmart U.S. Manufacturing Summit, Bentonville, AR
Kim, Y; Mani, S; Minko, S; Saremi, R; Sharma, S (National)

23 Jun 2016 3D Printing Applications, SEASR Meeting, Atlanta, GA
Sharma, S (Regional)

19 Jun 2016 Nanocellulose hydrogels for sustainable textile dyeing, International Symposium on Materials from Renewables, Fargo, ND
Kim, Y; Mani, S; Saremi, R; Sharma, S (National)

21 Apr 2016 New Developments in Textiles and UGA Research, New FACS Agent Orientation, Rock Eagle, Ga

	Sharma, S (Local)
19 Apr 2016	Preparation and Characterization of Biodegradable Electrospun core-sheath yarn for Bio-medical purposes, American Association of Textile Chemists and Colorists (AATCC) International Conference at Williamsburg, VA Banerjee, A; Sharma, S (International)
05 Apr 2016	Cooling Fabric: The Future of Keeping Cool, CURO Symposium Sharma, S (Local)
03 Apr 2016	Efficient, sustainable, and scalable textile dyeing technology using nanocellulosic fibers, Green & Sustainable Chemistry Challenge by Elsevier Foundation, Berlin, Germany Kim, Y; Mani, S; Minko, S; Saremi, R; Sharma, S (International)
20 Mar 2016	Polyhydroxybutyrate (PHB) based Nano-yarn and its Applications in Bio-Textiles Banerjee, A; Sharma, S (Regional)
15 Mar 2016	Nanocellulose - Surface Modification, Coating and Textile Dyeing, 6th Annual GSPS Research Day, University of Georgia, Athens, GA Kim, Y; Minko, S; Saremi, R; Sharma, S (Regional)
28 Oct 2015	Nanocellulose for functional surface modification and coatings on textile fabrics, The Fiber Society 2015 Fall Meeting, Raleigh, NC Kim, Y; Minko, S; Sharma, S (National)
11 May 2015	The Modification of Albumin-based Bioplastics with Magnetized Silver Nanocomposites, Magnetically stimulated soft materials, International Conference, Athens, GA Sharma, S (International)
08 May 2015	Development, Processing, and Novel Applications of Sustainable Nanocellulose Gel, BSRI Poster Competition Kim, Y; Minko, S; Sharma, S (Regional)

Publications

- Saremi, R., Borodinov, N., Laradji, A. M., Sharma, S., Luzinov, I., & Minko, S. (2020). Adhesion and Stability of Nanocellulose Coatings on Flat Polymer Films and Textiles. *MOLECULES*, 25(14), 18 pages. doi:[10.3390/molecules25143238](https://doi.org/10.3390/molecules25143238)
- Liyanapathirana, A., Pena, M. J., Sharma, S., & Minko, S. (2020). Nanocellulose-Based Sustainable Dyeing of Cotton Textiles with Minimized Water Pollution. *ACS OMEGA*, 5(16), 9196-9203. doi:[10.1021/acsomega.9b04498](https://doi.org/10.1021/acsomega.9b04498)
- Sharma, S., Saremi, R., & Rai, S. (2020). Dyeing of fibers and impact on the environment. In *Green Composites: Materials and Applications*.
- Nandy, A., Lee, E., Mandal, A., Saremi, R., & Sharma, S. (2020). Microencapsulation of retinyl palmitate by melt dispersion for cosmetic application. *JOURNAL OF MICROENCAPSULATION*, 37(3), 205-219. doi:[10.1080/02652048.2020.1720029](https://doi.org/10.1080/02652048.2020.1720029)
- Sharma, S., Jones, A., & Mani, S. (2019). A life cycle assessment of protein-based bioplastics for food packaging applications.. In *Industrial Applications of Biopolymers and their Environmental Impact*.

8. Gao, H., Asheghali, D., Yadavalli, N. S., Minh, T. P., Tho, D. N., Minko, S., & Sharma, S. (2019). Fabrication of core-sheath nanoyarn via touchspinning and its application in wearable piezoelectric nanogenerator. *JOURNAL OF THE TEXTILE INSTITUTE*, 111(6), 906-915. doi:[10.1080/00405000.2019.1678558](https://doi.org/10.1080/00405000.2019.1678558)
9. Lee, B. J., Daubenmire, S., Lee, E., Saremi, R., Smriti, R., Sriram, T., . . . Sharma, S. (2019). The optimization of novel nanocellulose gel-reactive dye coating for textile applications. *Colourage*, 66, 32-41.
10. Dona, A. N. K. L., Sharma, S., & Minko, S. (2019). Colloidal chemistry of NFC based sustainable textile dyeing technology and factors affecting dye performance. In *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol. 257 (pp. 2 pages). Orlando, FL: AMER CHEMICAL SOC. Retrieved from <http://gateway.webofknowledge.com/>
11. Ghezghapan, S. M. S., Savchak, M., Dona, A. N. K. L., Sharma, S., Minko, S., & Luzinov, I. (2019). Fabric modification with nanocellulosic fibers as functional carriers. In *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol. 257 (pp. 1 page). Orlando, FL: AMER CHEMICAL SOC. Retrieved from <http://gateway.webofknowledge.com/>
12. Gao, H., Pham, T. M., Wang, H., Minko, S., Locklin, J., Tho, N., & Sharma, S. (2018). High-performance flexible yarn for wearable piezoelectric nanogenerators. *SMART MATERIALS AND STRUCTURES*, 27(9), 11 pages. doi:[10.1088/1361-665X/aad718](https://doi.org/10.1088/1361-665X/aad718)
13. Morgan, C. J., & Sharma, S. (2018). Peltier Effect in Cotton Fabric Treated with Doped Nanocellulose. *AATCC JOURNAL OF RESEARCH*, 5(4), 1-6. doi:[10.14504/ajr.5.4.1](https://doi.org/10.14504/ajr.5.4.1)
14. Kim, Y., McCoy, L., Lee, E., Lee, H., Saremi, R., Feit, C., . . . Minko, S. (2018). Environmentally sound textile dyeing technology with nanofibrillated cellulose. In *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol. 255 (pp. 1 page). New Orleans, LA: AMER CHEMICAL SOC. Retrieved from <http://gateway.webofknowledge.com/>
15. Gao, H., Asheghali, D., Kim, Y., Sharma, S., & Minko, S. (2018). Wearable sensors utilizing nanofiber technology. In *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol. 255 (pp. 1 page). New Orleans, LA: AMER CHEMICAL SOC. Retrieved from <http://gateway.webofknowledge.com/>
16. Jones, A., Pant, J., Lee, E., Goudie, M. J., Gruzd, A., Mansfield, J., . . . Handa, H. (2018). Nitric oxide-releasing antibacterial albumin plastic for biomedical applications. *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A*, 106(6), 1535-1542. doi:[10.1002/jbm.a.36349](https://doi.org/10.1002/jbm.a.36349)
17. Sharma, S., & Morgan, C. J. (2017). Effect in Cotton Fabric Treated with Doped Nanocellulose.
18. Jones, A., Sharma, S., & Mani, S. (2017). A Life Cycle Assessment of Protein-based Bioplastics for Food Packaging Applications.
19. Kim, Y., McCoy, L. T., Lee, E., Lee, H., Saremi, R., Feit, C., . . . Minko, S. (2017). Environmentally sound textile dyeing technology with nanofibrillated cellulose. *GREEN CHEMISTRY*, 19(17), 4031-4035. doi:[10.1039/c7gc01662j](https://doi.org/10.1039/c7gc01662j)
20. Jones, A., Pant, J., Lee, E., Goudie, M., Gruzd, A., Mansfield, J., . . . Handa, H. (2017). Antibacterial NO releasing albumin plastic for biomedical applications. *Journal of Biomedical Materials Research - Part A*.
21. Jones, A., Mandal, A., & Sharma, S. (2018). Antibacterial and Drug Elution Performance of Thermoplastic Blends. *JOURNAL OF POLYMERS AND THE ENVIRONMENT*, 26(1), 132-144. doi:[10.1007/s10924-016-0924-y](https://doi.org/10.1007/s10924-016-0924-y)
22. Sharma, S. (2016). *Biobased Fibrous Materials and Cleaner Technologies for a Sustainable and Environmentally Responsible Textile Industry (multistate project report)*.

23. Jones, A., & Sharma, S. (2016). Thermoplastic Blends from Albumin and Zein: Plastic Formation and Mechanical Properties Including Modeling. *JOURNAL OF POLYMERS AND THE ENVIRONMENT*, 24(4), 309-317. doi:[10.1007/s10924-016-0774-7](https://doi.org/10.1007/s10924-016-0774-7)
24. Gao, H., & Sharma, S. (2016). *Invention Disclosure: Flexible piezoelectric textile used for energy harvester.*
25. Minko, S., Kim, Y., Tolbert, L., Lee, E., Feit, C., Saremi, R., . . . Sharma, S. (2016). Nanocellulose Functional Coatings. In *1st International Symposium Materials from Renewables* (pp. 10). Fargo, ND.
26. Minko, S., Kim, Y., Tolbert, L., Lee, E., Feit, C., Saremi, R., . . . Sharma, S. (2016). Nanocellulose Hydrogels for Sustainable Textile Dyeing. In *1st International Symposium Materials from Renewables* (pp. 18). Fargo, ND.
27. Minko, S., Kim, Y., & Sharma, S. (2016). Nanocellulose-based Textile Coatings for Smart Textiles. In *2016 Spring Conference The Fiber Society* (pp. 88). Mulhouse, France.
28. Minko, S., Kim, Y., McCoy., Lee, E., Saremi, R., Lee, H., . . . Sharma, S. (2016). Efficient, sustainable, and scalable textile dyeing technology using nanocellulosic fibers. In *1st Green and Sustainable Chemistry Conference.*
29. Sharma, S., Wang, K., Mandal, A., Ayton, E., Hunt, R., & Zeller, A. (2016). Modification of protein rich algal-biomass to form bio-plastics and odor removal. In *Waste-derived proteins: Transformation from environmental burden into value-added products.* Elsevier Publisher.
30. Sharma, S., Banerjee, A., Das, K. C., & Singh, M. (2016). Study of Biodegradable Polyesters from Algal Sources for Use in Future Textile Fiber Applications. *AATCC Journal of Research*, 3(1), 1-6.
31. Jones, A., & Sharma, S. (2017). Surface and degradation properties of thermoplastic blends from albumin and zein-based plastics. *JOURNAL OF APPLIED POLYMER SCIENCE*, 134(13), 10 pages. doi:[10.1002/app.44646](https://doi.org/10.1002/app.44646)
32. Jones, A., Mandal, A., & Sharma, S. (2015). Protein-based bioplastics and their antibacterial potential. *Journal of Applied Polymer Science*, 132(18), 41931.
33. Sharma, S., & Dhandapani, R. (2014). Environmentally benign pretreatments for producing microfibrillated cellulose fibers from hemp. In *Lightweight Materials from Biopolymers and Biofibers ACS Symposium Series 1175 Edited by Yiqi Yang, Helan Xu, Xin Yu.*
34. Ronda, S. R., Parupudi, P. L. C., Vemula, S., Tumma, S., Botlagunta, M., Settaluri, V. S., . . . Kandala, C. (2014). Optimization of medium components using orthogonal arrays for gamma-Linolenic acid production by *Spirulina platensis*. *KOREAN JOURNAL OF CHEMICAL ENGINEERING*, 31(10), 1839-1844. doi:[10.1007/s11814-014-0082-7](https://doi.org/10.1007/s11814-014-0082-7)
35. White, E. M., Seppala, J. E., Rushworth, P. M., Sharma, S., & Locklin, J. (2014). Switching the adhesive state of catecholic hydrogels using phototitration. In *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol. 247 (pp. 1 page). Dallas, TX: AMER CHEMICAL SOC. Retrieved from <http://gateway.webofknowledge.com/>
36. Tolbert, L., Sharma, S., & Morgan, C. J. (2014). *Invention Disclosure: Process of Fabricating Nanocellulose Hydrogels and Self-assembled Fibrillated Structures from Dry wood Pulp sheet for Coating, Sizing, Tissue Scaffolding, Suture and Reinforced Composite Applications.*
37. Ronda, S. R., Kethineni, C., Parupudi, L. C. P., Thunuguntla, V. B. S. C., Vemula, S., Settaluri, V. S., . . . Kandala, C. V. (2014). A growth inhibitory model with SO_x influenced effective growth rate for estimation of algal biomass concentration under flue gas atmosphere. *BIORESOURTE TECHNOLOGY*, 152, 283-291. doi:[10.1016/j.biortech.2013.10.091](https://doi.org/10.1016/j.biortech.2013.10.091)
38. White, E. M., Seppala, J. E., Rushworth, P. M., Ritchie, B. W., Sharma, S., & Locklin, J. (2013).

- ;Switching the Adhesive State of Catecholic Hydrogels using Phototitration. *MACROMOLECULES*, 46(22), 8882-8887. doi:[10.1021/ma401594z](https://doi.org/10.1021/ma401594z)
39. Sharma, S., Sivasankari, V., Pattathil, S., & Kandemkavil, S. (2013). Analyses of cell wall glycans using glycome profiling in two commercially important lignocellulosic fiber raw materials. doi:[10.4172/2165-8064.S1-001](https://doi.org/10.4172/2165-8064.S1-001)
 40. Sharma, S., & Cao, J. (2013). Near-Infrared Spectroscopy for anti-counterfeiting innovative fibers. *ISRN Textiles*. doi:[10.1155/2013/649407](https://doi.org/10.1155/2013/649407)
 41. Sharma, S., & Luzinov, I. (2013). Whey based binary bioplastics. *JOURNAL OF FOOD ENGINEERING*, 119(3), 404-410. doi:[10.1016/j.jfoodeng.2013.06.007](https://doi.org/10.1016/j.jfoodeng.2013.06.007)
 42. Jones, A., Zeller, M. A., & Sharma, S. (2013). Thermal, mechanical, and moisture absorption properties of egg white protein bioplastics with natural rubber and glycerol.. *Prog Biomater*, 2(1), 12. doi:[10.1186/2194-0517-2-12](https://doi.org/10.1186/2194-0517-2-12)
 43. Zeller, M. A., Hunt, R., Jones, A., & Sharma, S. (2013). Bioplastics and their thermoplastic blends from Spirulina and Chlorella microalgae. *JOURNAL OF APPLIED POLYMER SCIENCE*, 130(5), 3263-3275. doi:[10.1002/app.39559](https://doi.org/10.1002/app.39559)
 44. Zeller, M. A., Hunt, R., & Sharma, S. (2013). Sustainable bioderived polymeric materials and thermoplastic blends made from floating aquatic macrophytes such as "duckweed". *JOURNAL OF APPLIED POLYMER SCIENCE*, 127(1), 375-386. doi:[10.1002/app.37555](https://doi.org/10.1002/app.37555)
 45. Sharma, S., & Luzinov, I. (2012). Water Aided Fabrication of Whey and Albumin Plastics. *JOURNAL OF POLYMERS AND THE ENVIRONMENT*, 20(3), 681-689. doi:[10.1007/s10924-012-0504-8](https://doi.org/10.1007/s10924-012-0504-8)
 46. Sharma, S., Zeller, M. A., & Hunt, R. W. (2012). Sustainable Bioplastics and Biocomposites Made from Floating Aquatic Macrophytes such as "Duckweed,". *Journal of Applied Polymer Science*, 127(1), 375-386.
 47. Kim, J. R., & Sharma, S. (2012). The development and comparison of bio-thermoset plastics from epoxidized plant oils. *INDUSTRIAL CROPS AND PRODUCTS*, 36(1), 485-499. doi:[10.1016/j.indcrop.2011.10.036](https://doi.org/10.1016/j.indcrop.2011.10.036)
 48. Sharma, S., & Luzinov, I. (2011). Ultrasonic curing of one-part epoxy system. *JOURNAL OF COMPOSITE MATERIALS*, 45(21), 2217-2224. doi:[10.1177/0021998311401075](https://doi.org/10.1177/0021998311401075)
 49. Cao, J., & Sharma, S. (2011). In Vitro Study: Synthetic Prosthetic Meshes for Inguinal Hernia Repair. *AATCC REVIEW*, 11(6), 52-59. Retrieved from <http://gateway.webofknowledge.com/>
 50. Sharma, S., & Kim, J. R. (2011). Non-petroleum based biocomposites formulations from vegetable oils. In *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol. 241 (pp. 1 page). Anaheim, CA: AMER CHEMICAL SOC. Retrieved from <http://gateway.webofknowledge.com/>
 51. Vatansever, F., Zdyrko, B., Sharma, S., Li, X., Wen, X., & Luzinov, I. (2010). Coating from human albumin plastic on titanium orthopedic implants. *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY*, 240, 1 page. Retrieved from <http://gateway.webofknowledge.com/>
 52. Sharma, S., Hodges, J., & Luzinov, I. (2008). CELL 145-Biodegradable polymer blends and composites from proteins produced by animal coproducts industry. In *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol. 235 (pp. 1 page). New Orleans, LA: AMER CHEMICAL SOC. Retrieved from <http://gateway.webofknowledge.com/>
 53. Sharma, S., & Luzinov, I. (2007). CELL 182-Plastics from proteins produced by animal coproduct industry. In *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol. 233 (pp. 685). Chicago, IL: AMER CHEMICAL SOC. Retrieved from

<http://gateway.webofknowledge.com/>

54. Sharma, S., & Luzinov, I. (2006). Ultrasonic curing of one-part epoxy resin. In *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY* Vol. 231 (pp. 2 pages). Atlanta, GA: AMER CHEMICAL SOC. Retrieved from <http://gateway.webofknowledge.com/>
55. Sharma, S., Banerjee, A., Das, K. C., & Singh, M. (n.d.). Study of Biodegradable Polyesters from Algal Sources for Use in Future Textile Fiber Applications. *AATCC Journal of Research*. *AATCC Journal of Research*.
56. Banerjee, A., Singh, M., Das, K., & Sharma, S. (2016). Study of Biodegradable Polyesters from Algal Sources for Use in Future Textile Fiber Applications. *AATCC JOURNAL OF RESEARCH*, 3(1), 6 pages. doi:[10.14504/ajr.3.1.1](https://doi.org/10.14504/ajr.3.1.1)
57. Sharma, S., Mandal, A., & Wang, K. (n.d.). Modification of protein rich algal-biomass to form bio-plastics and odor removal. In *Waste-derived proteins: Transformation from environmental burden into value-added products; Edited by Dr. Dhillon; Elsevier Publisher*.
58. Jones, A., Mandal, A., & Sharma, S. (2015). Protein-based bioplastics and their antibacterial potential. *JOURNAL OF APPLIED POLYMER SCIENCE*, 132(18), 11 pages. doi:[10.1002/app.41931](https://doi.org/10.1002/app.41931)
59. Sharma, S., Banerjee, A., Das, K. C., & Singh, M. (n.d.). Study of Biodegradable Polyesters from Algal Sources for Use in Future Textile Fiber Applications. *AATCC Journal of Research*.
60. Sharma, S., minko, S., kim, Y. U. N. S. A. N. G., lee, E. L. I. Z. A., saremi, R., hardin, I., & tolbert, L. (2015, October 28). nanocellulose for functional surface modification and coatings on textile fabrics.
61. Sharma, S., Stokes, Z., Mandal, A., & Sriram, T. N. (2015, March 30). Design and Analysis of Reactive Red Dye 120 Absorption by Nanocellulose Gel. In *CURO 2015 Symposium*. Athens, GA.
62. Sharma, S., & Banerjee, A. (2015, March 24). Study of Biocompatibility and Cell proliferation on Microalgal Polyhydroxy Butyrate (PHB) Fibrous Structures for Wound Healing Applications. In *2015 AATCC international Conference (SAVANNAH , GA)*.
63. Sharma, S., & Banerjee, A. (2015, May 8). Cyanobacterial Polyhydroxyalkanoates: A Biosynthesis and Industrial Economics Perspective. In *BSRI ANNUAL RETREAT- 2015*. Athens, GA.
64. Sharma, S., & Tolbert, L. (2015, March 30). Pretreatment of Cellulose Powder and Nanocellulose Gel Production. In *CURO Symposium 2015*. Athens, GA.
65. Sharma, S. (n.d.). *Hatch Project: Microencapsulation Technology Using Essential Oils to Produce Smart Textile Functionalities that Improve Human Health*".
66. Sharma, S., Hunt, R. W., Cao, J., & Zeller, M. A. (2011). Bioplastics from Algae Biomass. GPEC 2011 (Global Plastics Environmental Conference).
67. Sharma, S., Vatansever, F., Hodges, J. N., & Luzinov, I. (n.d.). Biodegradable Polymer Materials from Proteins Produced by Animal Co-Products Industry: Bloodmeal. In A. N. F. C. University (Ed.).
68. Kim, J. R., & Sharma, S. (2011). Acaricidal activities of clove bud oil and red thyme oil using microencapsulation against HDMs. *JOURNAL OF MICROENCAPSULATION*, 28(1), 82-91. doi:[10.3109/02652048.2010.529949](https://doi.org/10.3109/02652048.2010.529949)
69. Sharma, S., Ayton, E., Zeller, M. A., Hunt, R., & Jones, A. (n.d.). Biodegradable polymeric materials from algae Edited by Dr. Chu; NOVA Science Publisher.

Grants/Contracts (Awarded)

1. Cooling towel-phase 7
Allstar Marketing Group, LLC, NA, 28 Sep 2020–27 Mar 2021
Amount: \$ 7,489 (US), Role: Principal investigator of
2. Wash Durability Study: Laminated ePTFE Film
NexTex Innovations Inc, n/a, 24 Aug 2020–24 Nov 2020
Amount: \$ 1,000 (US), Role: Principal investigator of
3. Droplet Disbursement Testing of Mission Fabrics
MISSION PRODUCTS HOLDINGS INC, n/a, 20 Aug 2020–31 Mar 2021
Amount: \$ 10,000 (US), Role: Principal investigator of
4. EcoaTEX - Eco-Friendly Textile Coatings
NATIONAL SCIENCE FOUNDATION, 1939078, 01 Oct 2019–28 Feb 2021
Amount: \$ 50,000 (US), Role: Principal investigator of
5. Testing and Analysis of Cooling Towel
MISSION PRODUCTS HOLDINGS INC, N/A, 08 Jun 2017–07 Sep 2022
Amount: \$ 3,026 (US), Role: Principal investigator of
6. COTTON IS OUR EVERYDAY AT UGA: AN INTEGRATED APPROACH TO THE
EDUCATION AND AWARENESS OF COTTON PRODUCTS
COTTON INCORPORATED, HUNT-HURST AGREEMENT, 01 Jan 2011–25 May 2012
Amount: \$ 28,200 (US), Role: Co-investigator of
7. Dyeing of cotton yarns for denims with ecofriendly nanocellulose gel-natural indigo dispersion
AATCC Foundation, 01 Jan 2018–31 Dec 2018
Amount: \$ 750 (US), Role: Principal investigator of
8. Energizing smart coatings and textiles
UGA-Liverpool Seed Grant/Pump-Priming Initiative, 20 Dec 2015
Amount: \$ 4,500 (US), Role: Primary investigator of
9. To incorporate 3D printing into the Textiles, Merchandising and Interiors curriculum
Sweaney Innovation Fund, 15 Dec 2015
Amount: \$ 5,000 (US), Role: Primary investigator of
10. Incorporating 3D Printing and the Flipped Classroom into Textile Education
Center for Teaching and Learning (UGA), 01 May 2016
Amount: \$ 22,209 (US), Role: Primary investigator of
11. LEAD 21 project: Providing Clothing and Textile Support to County Extension Agents
director of extension in the College of Agriculture and Environmental Sciences, 03 Jan 2017–
31 Dec 2018
Amount: \$ 19,000 (US), Role: Primary investigator of
12. Contract testing
WEAR BUMI, CA, 24 Oct 2016–31 Jan 2017
Amount: \$ 1,586 (US), Role: Funded by
13. Innovative and Environmentally friendly textile dyeing technology using nanocellulosic fibers
Germany's Leuphana University and Elsevier, 01 May 2016–30 Apr 2017
Amount: € 50,000 (EU), Role: Secondary investigator of
14. MRR renovations for Rm 104 Dawson Research Lab
University of Georgia, 10 Oct 2016
Amount: \$ 163,000 (US), Role: Funded by
15. High-performance wearable energy harvester

- AATCC Foundation, 05 Nov 2016
Amount: \$ 900 (US), Role: Primary investigator of
16. Integrated continuous electrospinning nano-core sheath yarn production using biodegradable polymers
AATCC Foundation, 05 Nov 2017
Amount: \$ 500 (US), Role: Primary investigator of
17. Cooling Towel Project
Mission, 08 Jun 2017–08 Sep 2017
Amount: \$ 3,026 (US), Role: Principal investigator of

Courses Taught

Spring 2021	Faculty-Mentored Undergraduate Research I (CHEM 4960R) Textiles (TXMI 3500) Textile Testing (TXMI 3520) Textile Testing (TXMI 3520) Master's Thesis (TXMI 7300) Doctoral Research (TXMI 9000)
Fall 2020	First-Year Odyssey Seminar (FYOS 1001) Textile Testing (TXMI 3520) Textile Testing (TXMI 3520) Product Development in the Textile and Apparel Industries (TXMI 4160) Product Development in the Textile and Apparel Industries (TXMI 6160) Master's Research (TXMI 7000) Doctoral Research (TXMI 9000) Doctoral Dissertation (TXMI 9300)
Summer 2020	Textiles for Consumers (TXMI 2100E) Master's Research (TXMI 7000) Doctoral Research (TXMI 9000)
Spring 2020	First-Year Odyssey Seminar (FYOS 1001) Textiles (TXMI 3500) Textile Testing (TXMI 3520) Textile Testing (TXMI 3520) Textile Testing (TXMI 3520) Master's Research (TXMI 7000) Doctoral Research (TXMI 9000)
Fall 2019	First-Year Odyssey Seminar (FYOS 1001) Textile Testing (TXMI 3520) Textile Testing (TXMI 3520)

Product Development in the Textile and Apparel Industries (TXMI 4160)
 Product Development in the Textile and Apparel Industries (TXMI 6160)
 Graduate Student Seminar (TXMI 7005)
 Doctoral Research (TXMI 9000)
 Doctoral Graduate Student Seminar (TXMI 9005)
 Directed Research (TXMI 9010)
 Summer 2019 Textiles for Consumers (TXMI 2100E)
 Master's Thesis (TXMI 7300)
 Doctoral Research (TXMI 9000)
 Spring 2019 First-Year Odyssey Seminar (FYOS 1001)
 Textiles (TXMI 3500)
 Textile Testing (TXMI 3520)
 Textile Testing (TXMI 3520)
 Textile Testing (TXMI 3520)
 Master's Research (TXMI 7000)
 Doctoral Research (TXMI 9000)
 Fall 2018 First-Year Odyssey Seminar (FYOS 1001)
 Textile Testing (TXMI 3520)
 Textile Testing (TXMI 3520)
 Product Development in the Textile and Apparel Industries (TXMI 4160)
 Master's Research (TXMI 7000)
 Master's Thesis (TXMI 7300)
 Doctoral Research (TXMI 9000)
 Doctoral Research (TXMI 9000)
 Summer 2018 Textiles for Consumers (TXMI 2100E)
 Field Study-NY Tour Airfare (FSTY 1033)
 Field Study-NY Tour No Airfare (FSTY 1050)
 Study Tour in Textiles, Merchandising and Interiors (TXMI 5710)
 Master's Research (TXMI 7000)
 Doctoral Research (TXMI 9000)
 Spring 2018 First-Year Odyssey Seminar (FYOS 1001)
 Textiles (TXMI 3500)
 Master's Research (TXMI 7000)
 Physics of Polymer, Fiber, and Textile Structures (TXMI 8180)
 Doctoral Research (TXMI 9000)
 Doctoral Research (TXMI 9000)

	Directed Research (TXMI 9010)
Fall 2017	Independent Research (CHEM 4600)
	First-Year Odyssey Seminar (FYOS 1001)
	Graduate Seminar (GRSC 7770)
	Directed Research (TXMI 3010)
	Textiles (TXMI 3500)
	Product Development in the Textile and Apparel Industries (TXMI 4160)
	Product Development in the Textile and Apparel Industries (TXMI 6160)
	Master's Research (TXMI 7000)
	Doctoral Research (TXMI 9000)
	Directed Research (TXMI 9010)
	Doctoral Dissertation (TXMI 9300)
Summer 2017	Doctoral Research (TXMI 9000)
Spring 2017	Directed Research (TXMI 3010)
	Textiles (TXMI 3500)
	Textile Testing (TXMI 3520)
	Textile Testing (TXMI 3520)
	Master's Thesis (TXMI 7300)
	Doctoral Research (TXMI 9000)
	Directed Research (TXMI 9010)
	Doctoral Dissertation (TXMI 9300)
Fall 2016	First-Year Odyssey Seminar (FYOS 1001)
	Product Development in the Textile and Apparel Industries (TXMI 4160)
	Product Development in the Textile and Apparel Industries (TXMI 6160)
	Master's Research (TXMI 7000)
	Master's Thesis (TXMI 7300)
	Doctoral Research (TXMI 9000)
	Doctoral Research (TXMI 9000)
Spring 2016	Textiles (TXMI 3500)
	Textile Testing (TXMI 3520)
	Master's Research (TXMI 7000)
	Master's Research (TXMI 7000)
	Doctoral Research (TXMI 9000)
Fall 2015	Direct Research (TXMI 3010)
	Prod Dev Tex and App (TXMI 4160)
	Prod Dev Tex and App (TXMI 6160)

	Master's Research (TXMI 7000)
	Master's Research (TXMI 7000)
	Master's Thesis (TXMI 7300)
	Doctoral Research (TXMI 9000)
	Doct Dissertation (TXMI 9300)
Summer 2015	Text for Consumers (TXMI 2100)
	Directed Reading (TXMI 4960H)
Spring 2015	Direct Research (TXMI 3010)
	Textiles (TXMI 3500)
	Textile Testing (TXMI 3520)
	Grad Student Sem (TXMI 7005)
	Doctoral Research (TXMI 9000)
	Directed Research (TXMI 9010)
	Doct Dissertation (TXMI 9300)
Fall 2014	First Year Odyssey (FYOS 1001)
	Direct Research (TXMI 3010)
	Textiles (TXMI 3500)
	Prod Dev Tex and App (TXMI 4160)
	Prod Dev Tex and App (TXMI 6160)
	Doctoral Research (TXMI 9000)
Summer 2014	Doct Dissertation (TXMI 9300)
Spring 2014	Textiles (TXMI 3500)
	Textile Testing (TXMI 3520)
	Master's Thesis (TXMI 7300)
	Directed Research (TXMI 9010)
	Doct Dissertation (TXMI 9300)
Fall 2013	First Year Odyssey (FYOS 1001)
	Textiles (TXMI 3500)
	Prod Dev Tex & App (TXMI 4160)
	Prod Dev Tex & App (TXMI 6160)
	Master's Thesis (TXMI 7300)
	Tmi Seminar (TXMI 8900)
	Directed Research (TXMI 9010)
	Doct Dissertation (TXMI 9300)
Summer 2013	Text For Consumers (TXMI 2100)
	Directed Research (TXMI 9010)

Spring 2013	Textiles (TXMI 3500) Textile Testing (TXMI 3520) Directed Research (TXMI 9010)
Fall 2012	First Year Odyssey (FYOS 1001) Textile Testing (TXMI 3520) Prod Dev Tex & App (TXMI 4160) Prod Dev Tex & App (TXMI 6160) Tmi Seminar (TXMI 8900) Directed Research (TXMI 9010)
Summer 2012	Text For Consumers (TXMI 2100) Direct Research (TXMI 3010) Directed Research (TXMI 9010)
Spring 2012	Textiles (TXMI 3500) Textile Testing (TXMI 3520) Directed Research (TXMI 9010)
Fall 2011	Textile Testing (TXMI 3520) Prod Dev Tex & App (TXMI 4160) Prod Dev Tex & App (TXMI 6160) Directed Research (TXMI 9010)
Summer 2011	Text For Consumers (TXMI 2100)
Spring 2011	Textiles (TXMI 3500) Textile Testing (TXMI 3520) Directed Research (TXMI 9010)
Fall 2010	Textile Testing (TXMI 3520) Textile Testing (TXMI 3520) Prod Dev Tex & App (TXMI 4160) Prod Dev Tex & App (TXMI 6160) Directed Research (TXMI 9010)
Summer 2010	Master's Thesis (TXMI 7300)
Spring 2010	Textiles (TXMI 3500) Textile Testing (TXMI 3520) Textile Testing (TXMI 3520) Master's Research (TXMI 7000) Master's Thesis (TXMI 7300)
Fall 2009	Textile Testing (TXMI 3520) Special Topics (TXMI 6900)

	Master's Research (TXMI 7000)
	Master's Thesis (TXMI 7300)
Summer 2009	Master's Research (TXMI 7000)
	Grad Student Sem (TXMI 7005)
Spring 2009	Textiles (TXMI 3500)
	Textile Testing (TXMI 3520)
	Directed Research (TXMI 9010)
Fall 2008	Textiles (TXMI 3500)
	Prod Dev Tex & App (TXMI 4160)
	Prod Dev Tex & App (TXMI 6160)

Professional Service

Consulting

School/College

27 Aug 2009–28 Aug 2009

(School or college)

Client type: College students

FACS leadership retreat

Department

02 Jul 2011

(School or college)

Client type: College students

Helped my graduate student Joo Ran Kim to successfully submit a research proposal to the Graduate Women in Science (GWIS) Fellowships. However, not funded but got good reviewers comments for future submission

Scope unspecified

BRRR! cool fabric, *15 Apr 2015–Present*

Client type: Business/Industry

Developing technical response to QVC questionnaire

Educational/Outreach presentations

State: Event Type unspecified

22 Jan 2010–Present

GATFACS /Georgia Department of Education, Marietta Hilton

Invited

Presenter for a workshop on Textile Science, What's it All About. This workshop was very successful and acknowledged by Laura Ergle(Program Specialist, Georgia Department of Education). These teachers were very interested in learning about ecological and social aspects of textiles to build consumers' confidence in textiles

Scope unspecified: Event Type unspecified

20 Jul 2010–Present

GACTE Summer Conference/Georgia Department of Education, Atlanta
Invited

Back by popular demand, I shared my expertise and knowledge on Textile Science with school teachers. These ideas can be easily implemented in their class to support the Textile Science GPS

Event administration

International: Symposium

Session/Panel chair, The Fiber Society 2017 Fall Meeting and Technical Conference, 08 Nov 2017–10 Dec 2017

National: Conference

Event administrator, Advanced Functional Fabric of America Industry Day at UGA, 01 May 2016–14 Oct 2016

Clarke County, Target audience: Business/Industry

Annual Time Commitment (hrs): 100.0

The conference with a broad representation of textile companies and universities of South-East region on the topics related to the development of AFFOA manufacturing institute

Scope unspecified: Event Type unspecified

Program coordinator, 07 May 2013–Present

Organized the first meeting for the S1054 multistate project

Event judging

University: Graduate research poster competition

College of Engineering Research Showcase - Poster Competition, 21 Feb 2020–Present

Served as a judge

Media distribution

FEATURE: Apurba Banerjee, 2016, 18 Nov 2016–Present

Event type: Event unspecified

<http://grad.uga.edu/index.php/2016/10/apurba-2016/>

Hi-tech fabric could revive textiles, 26 Oct 2016–Present

Event type: Newspaper Web Article

http://www.oconeenterprise.com/news/article_dabc5af8-9b91-11e6-ba06-2fef355cdfa3.html

AFFOA Day: Fabric Revolution, 21 Oct 2016–Present

Event type: Event unspecified

<https://newmaterials.uga.edu/2016/10/21/affoa-day-fabric-revolution/>

AFFOA Industry Day highlights future of fabrics, 21 Oct 2016–Present

Event type: Event unspecified

<http://www.fcs.uga.edu/news/story/affoa-industry-day-highlights-future-of-fabrics>

AFFOA Industry Day to showcase advances in fabric, textiles, 06 Oct 2016–Present

Event type: Event unspecified

<http://www.fcs.uga.edu/news/story/affoa-industry-day-to-showcase-advances-in-fabric-textiles>

University of Georgia joins fabric revolution, 17 Jun 2016–Present

Event type: Event unspecified

FACS magazine

Sustainable dyeing technology gives UGA win at Challenge, 27 Apr 2016–Present

Event type: Event unspecified

<http://www.fcs.uga.edu/news/story/sustainable-dyeing-technology-gives-uga-win-at-challenge>

Sweaney Innovation Fund provides for 3-D printing, 05 Apr 2016–Present

Event type: Event unspecified

<http://www.fcs.uga.edu/news/story/sweaney-innovation-fund-provides-for-3-d-printing>

FACS, UGA join fabric revolution, 01 Apr 2016–Present

Event type: Event unspecified

<http://www.fcs.uga.edu/news/story/facs-uga-join-fabric-revolution>

AFFOA, 01 Apr 2016–Present

Event type: Event unspecified

<http://www.engineering.uga.edu/research/affoa>

University of Georgia joins fabric revolution, 01 Mar 2016–Present

Event type: Webpage article

<http://news.uga.edu/releases/article/university-of-georgia-joins-fabric-revolution-0416/>

Focus On Faculty: Suraj Sharma, 23 Aug 2015–Present

Event type: Event unspecified

Recipe for antibacterial plastic: Plastic plus egg whites, 27 Mar 2015–Present

Event type: Event unspecified

Memberships: Association/Society/Club

National

S-1054: Biobased Fibrous Materials and Cleaner Technologies for a Sustainable and Environmentally Responsible Textile Industry (Secretary), 28 Aug 2014–27 Aug 2015

Local

American Association of Chemists and Colorists (Councilor), 01 Aug 2015–Present
Student Chapter

Memberships: Board

Scope unspecified

(Board member), 31 Dec 2013–Present

ALGIX, LLC

Serving on the Technical Advisory Board

Memberships: Committee

University

University council (Member), *01 Jan 2016–31 Dec 2016*
University of Georgia

University Council (Member), *01 Jul 2014–30 Jun 2017*

School/College

FACS curriculum committee (Member), *01 Jan 2016–31 Jul 2016*
University of Georgia, Athens, TMI, Athens, United States

Department Head Search (Member), *15 Sep 2015–15 Mar 2016*

Faculty Advisory Committee, (Member), *01 Aug 2012–01 Jul 2014*

Developing proposal for the presidential cluster hiring initiative (Member),
09 Sep 2014

Family and Consumer Sciences Student Tech Fee committee (Member),
01 Jun 2012

Department

Assistant Professor of Merchandising Search (Member), *18 Sep 2017–Present*

Curriculum Strategy (Chair), *20 Jan 2016–Present*

Promotion and Tenure Revision Committee (Member), *30 Sep 2014–06 Jan 2015*

Search committee for Georgia Soft Goods Education Foundation Distinguished Professor (Chair), *15 Aug 2014–30 Mar 2015*

Graduate handbook (area: polymer, fiber and textile sciences) (Member),
20 Jan 2014–05 Dec 2014

1) Revised coursework for the Ph.D. Polymer, Fiber and Textile Science program
2) Revised core requirement for MS program emphasis in Polymer, Fiber and Textile Sciences
3) Graduate students semester evaluation
4) Comprehensive exam
5) Graduate seminar

Textile Science Professor Search Committee (Member), *01 Aug 2012–01 Jul 2013*

Masters committee for Sivasankari Venketachalam (Member), *18 Aug 2011–09 Jun 2012*

Providing constructive help to student for fulfilling research objectives and successfully defending thesis

PhD committee of Renuka Dhandapani (Member), *18 Aug 2010–09 Aug 2012*

Providing constructive help to student for fulfilling research objectives and ensuring compliance with university/department procedures such as comprehensive exam and proposal defense

Strategic Planning for Textile Science Focus Area (Chair), *01 Nov 2009–04 Dec 2009*

PhD committee for Vikram Dhende (Member), *18 Aug 2009–08 May 2011*

Providing constructive help to student for fulfilling research objectives and ensuring compliance with university/department procedures such as comprehensive exam and proposal defense

Masters Dissertation Committee (Member), *15 Jan 2009–15 Jul 2009*

Served on Rohan Khatavakar's advisory committee

PhD committee (Member), *01 Jan 2009–31 Dec 2009*

Serving on Vikram Dhende's PhD committee

Masters Dissertation Committee (Chair), *01 Jan 2009–31 Dec 2009*

Serving on the advisory committee of graduate students, Jing Cao and Joo Ran Kim

Developing proposal for a joint position between FACS and college of Engineering (Member), *30 Dec 2014*

Textile Science name change (Member), *31 Dec 2013*

Served on this committee to suggest relevant name change for the PhD Textile Science program and curriculum modification

Learning Outcomes Committee (Member), *31 Dec 2013*

AAFA Competency committee (Member), *31 Dec 2012*

Prepared competency document

American Apparel & Footwear Association (AAFA) Competency Committee

(Member), *05 Nov 2011*

Working on compliance for competency requirements

(Member), *12 Jul 2011*

Providing constructive help to student for fulfilling research objectives and successfully defending thesis

(Member), *21 Nov 2009*

South-campus Tailgate Exhibit

Scope unspecified

(Chair), *01 Aug 2011–01 Dec 2012*

Multi-State Research Project S1026: Textile Materials and Technologies Addressing Energy, Health and Other National Security Issues

Professional development

Techtextil North America 2016, *05 May 2016–Present*

Textile machine exhibition

Techtextil North America

Sustainability across the Curriculum Faculty Development Workshop,

06 May 2015–07 May 2015

Workshop

PerkinElmer Materials Characterization Workshop, *25 Mar 2014–Present*

Workshop

Johns Creek, GA

Solving your real-world challenges and learn techniques that you can implement in your lab. Techniques include: FTIR, FTIR Microscopy, FT-NIR, UV/Vis, UV/Vis/NIR, FL, DSC, TGA, TGA-IR, TGA-GC/MS, TGA-MS, DMA and Elemental Analysis

Competitive Grants Workshop: January 25-26, 2011, *25 Jan 2011–26 Jan 2011*

Workshop

NIFA (USDA), Crystal City, VA

Information on various programs at NIFA for the researchers

IAQ/IH Sampling Workshop, *24 Jun 2010–Present*

Workshop

EMSL Analytical, Inc, Atlanta, GA, United States
Completed 8 hrs of training covering industrial air quality and hygiene sampling workshop

Teaching Evidence-Based Practice in the Health Professions, 10 May 2010–11 May 2010

Conference

Institute for Evidence-Based Health Professions Education, UGA, Athens

Reviewing/Refereeing: Grant proposals

International

Georgia SRNSF Compatriots Review 2016, Oak Ridge Associated Universities, Oak Ridge, Oak Ridge, United States, 15 Aug 2017–Present

Research Grants Council (RGC) of Hong Kong, Hong Kong, 06 Mar 2016–Present
Reviewing scientific proposal titled "Dyeing Cotton with Reactive Dyes in Low Water and Salt-free Medium"

Research Grants Council (RGC) of Hong Kong, Hong Kong, 06 Mar 2016–Present
Reviewed scientific proposal titled "Green enhancement of silk fibers by photocatalytic dual crosslinking"

National

Nebraska Corn Board, 301 Centennial Mall South, 4th Floor, Lincoln, NE, 68509, USA, 22 Jan 2020–14 Feb 2020

Number of applications reviewed/refereed: 1

Reviewed proposal titled "Conversion of Corn Kernel Fiber to Carbon Fiber"

Reviewing/Refereeing: Journals

International

European Polymer Journal (Open peer review), 27 Dec 2020–Present
Number of works reviewed/refereed: 1

Carbohydrate Polymers (Open peer review), 14 Nov 2020–Present
Number of works reviewed/refereed: 1

Clothing and Textiles Research Journal (Anonymous peer review), 22 Aug 2020–Present

Number of works reviewed/refereed: 1

Journal of Biomedical Materials Research - Part B Applied Biomaterials, 24 Jul 2017–Present

Clothing and Textiles Research Journal, 07 Mar 2017–Present

Karbala International Journal of Modern Science, 03 Feb 2017–Present

Clothing and Textiles Research Journal (Anonymous peer review), 21 Sep 2016–Present

Journal of Family Ecology and Consumer Sciences (Anonymous peer review), 12 Sep 2016–Present

Karbala International Journal of Modern Science (Anonymous peer review), 04 Aug 2016–Present

Journal of Applied Polymer Science (Anonymous peer review), 09 Jun 2016–Present

Journal of the Science of Food and Agriculture (Anonymous peer review),
27 Apr 2016–Present

Industrial Crops and Products (Anonymous peer review), 19 Mar 2016–Present

AATCC Journal of Research (Anonymous peer review), 14 Mar 2016–Present

journal of Food Engineering (Anonymous peer review), 07 Jan 2013–Present

Journal of Biomedical Materials Research Part A (Anonymous peer review),
06 Apr 2010–Present

Journal of Applied Polymer Science (Anonymous peer review), 17 Mar 2010–Present

Scope unspecified

AATCC Journal of Research, the SCI journal of AATCC (Anonymous peer review),
04 Dec 2014–Present

Industrial Crops and Products Journal (Anonymous peer review), 16 Sep 2014–
Present

Industrial Crops and Products Journal (Anonymous peer review), 17 Aug 2014–
Present

Journal: Industrial & Engineering Chemistry Researc (Anonymous peer review),
27 Jun 2014–Present

Journal of Material Cycles and Waste Management (Anonymous peer review),
04 Jun 2014–Present

Journal: ACS Sustainable Chemistry & Engineering (Anonymous peer review),
17 Apr 2014–Present

Composites Science and Technology journal (Anonymous peer review),
20 Feb 2014–Present

Clothing and Textiles Research Journal (Anonymous peer review), 09 Feb 2014–
10 Jan 2015

Cellulose (Anonymous peer review), 07 Oct 2013–Present

journal of Food Engineering (Anonymous peer review), 04 Sep 2013–Present

Planta Medica (Anonymous peer review), 13 Jul 2013–Present

journal of Food Engineering (Anonymous peer review), 31 May 2013–Present

Clothing and Textiles Research Journal. (Anonymous peer review), 07 Mar 2013–
Present

Journal of Applied Polymer Science (Anonymous peer review), 18 Jan 2013–Present

Journal of Fashion Technology & Textile Engineering (Anonymous peer review),
22 Dec 2012–Present

Clothing and Textiles Research Journal. (Anonymous peer review), 30 Oct 2012–
Present

Journal of Applied Polymer Science (Anonymous peer review), 07 Oct 2012–Present

Journal of Applied Polymer Science (Anonymous peer review), 15 May 2012–Present

Journal of Food Engineering (Anonymous peer review), 07 Jan 2012–Present

Macromolecules (Anonymous peer review), 11 Nov 2011–Present
Journal of Agricultural and Food Chemistry (Anonymous peer review), 25 Sep 2011–Present
Journal of Applied Polymer Science (Anonymous peer review), 16 Jul 2011–Present
AATCC Review (Anonymous peer review), 01 Jul 2011–Present
Journal of Applied Polymer Science (Anonymous peer review), 28 May 2011–Present
Biomacromolecules (Anonymous peer review), 11 Apr 2011–Present
Journal of Agricultural and Food Chemistry (Anonymous peer review), 25 Feb 2011–Present
Clothing and Textiles Research Journal (Anonymous peer review), 22 Oct 2010–Present
Industrial & Engineering Chemistry Research (Anonymous peer review), 22 Aug 2010–Present
AATCC review (Anonymous peer review), 11 Jul 2010–Present
Clothing and Textiles Research Journal (Anonymous peer review), 06 May 2010–Present
Composite Science & Technology Journal (Anonymous peer review), 22 Apr 2009–Present
LWT- Food Science and Technology (Anonymous peer review), 26 Sep 2008–Present

Technical assistance

National

Bumi (Textile Testing) (Business/Industry), 19 Oct 2016–Present
Textile testings: antibacterial, wicking, wrinkle recovery, etc

Local

Development of Textile Accessory (Functional Glove) (Business/Industry), 01 Apr 2016–31 Dec 2016
Product development of working prototype

Scope unspecified

The Seydel-Wooley Companies (Pilling test) (Business/Industry), 23 Sep 2014–Present
Number of hours: 2.0, Fees received: \$ 140 (US)

Lanier Clothes Stain problem (Business/Industry), 21 Jul 2014–Present
Number of hours: 2.0, Fees received: \$ 283 (US)

Organic Blueberry Farm (regarding pesticide and herbicide testing on the nursery fabric) (Client unspecified), 16 May 2014–Present
Number of hours: 1.0, Fees received: \$ 0 (US)
Spread the work for organic certification testing

Technology commercialization

Scope unspecified

TEXTILE DYEING TECHNIQUES USING NANOCELLULOSIC FIBERS (Case type not yet implemented)

Case number: 103323795456

First patent filing date 11 Jul 2014

Issued patent number 62/023,573

Bioplastics and Biocomposites, Methods of Making Bioplastics and Biocomposites, and Methods of Use (Case type not yet implemented)

Case number: 47973761025

First patent filing date 24 Aug 2011

Issued patent number 61/526,814

Protein based materials, plastic albumin devices and related methods (Case type not yet implemented)

Case number: 65501421568

Issued patent number NULL

Macrophyte-based Bioplastic (Case type not yet implemented)

Case number: 65501392896

Issued patent number NULL