

Prof. Ahmed El-Shafei's Bio

Prof. Dr. Ahmed El-Shafei is a Professor in the Textile Engineering, Chemistry and Science Department in the College of Textiles at NC State University. He holds a Ph.D. in Fiber and Polymer Science and a Ph.D. in Chemistry both from NC State University, Raleigh, USA.

He is a dye and polymer chemist focusing on the developments of novel dyes for high efficiency dye-sensitized solar cells; innovative and sustainable chemistry approaches for sustainable dyeing and finishing; the use of atmospheric plasma and UV treatment for graft polymerization of different chemistries into different textile substrates to enhance textiles dyeability and for medical and military applications; fundamental understanding of the photochemistry and photodegradation mechanisms of dyes, polymers, fibers and colored textiles; developments of novel halogen-free flame retardants for different textiles.

El-Shafei is a recognized author of over 200 scholarly articles and awards winner of many scholarly achievements including Nancy Pollock Dissertation Award, the best Ph.D. dissertation award in the College of Textiles in 2002, University Faculty Scholar Award and Outstanding Teacher award. **He is an editor/associate editor of six journals, including The Journal of Textile Institute (Dyeing and Finishing).**

