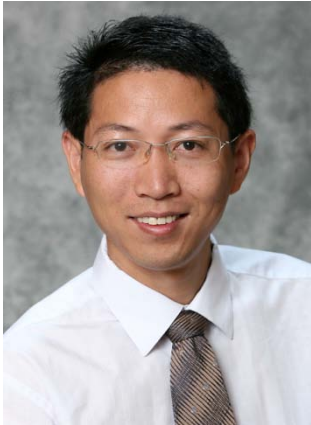


Biography



Dr. Qiquan Qiao, associate professor in Electrical Engineering, obtained his B.E. from Hefei University of Technology, M.S. from Shanghai Institute of Optics and Fine Mechanics at Chinese Academy of Sciences, and Ph.D. from Virginia Commonwealth University. In 2006, he joined the group of Prof. John Reynolds at University of Florida as a Postdoctoral Researcher. Then in 2007, he joined faculty in the Department of Electrical Engineering and Computer Sciences at South Dakota State University (SDSU), where he established the Organic Electronics Laboratory. Current research focuses on dye-sensitized solar cells and polymer photovoltaic materials and devices. In addition to his recent receipt of the 2012 College of Engineering Young Investigator Award and one of the 2012 College of Engineering Grantswinship awards, Dr. Qiao was also a recipient of the 2010 Excellence in Research Award from the College's EECS department. In 2010, Dr. Qiao was granted an Early Career Award from the US National Science Foundation, and in 2009 he received the Bergmann Memorial Award from the US-Israel Bi-national Science Foundation. During his graduate study, Dr. Qiao received the 2006 American Society of Mechanical Engineers Solar Energy Division Graduate Student Research Award and the 2006 Chinese Government Award for Outstanding Students Abroad. Dr. Qiao's research of next generation cost effective solar cells focuses on new approaches to enduring challenges in photovoltaic technologies. Specifically, his team is working on (1) increasing light absorption through the design and synthesis of new organic semiconductors, including broadband dyes and polymers; (2) enhancing charge transport through growth and optimization of inorganic nanostructures with high carrier mobility; (3) maximizing power output by engineering donor/acceptor morphology; and (4) fabricating and testing high efficiency dye-sensitized solar cells and polymer solar cells.