

Oxygen and moisture barrier from polyelectrolyte-clay nanocoatings

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Grunlan Bio: Dr. Jaime Grunlan is the Linda & Ralph Schmidt '68 Professor of Mechanical Engineering. He obtained a B.S. in Chemistry from North Dakota State University in 1997 before getting his Ph.D. in Materials Science and Engineering from the University of Minnesota. His research focuses on thermal and transport properties of nanocomposite materials, especially in the areas of thermoelectric energy generation, gas barrier and fire prevention. He won the NSF CAREER and 3M Untenured Faculty awards in 2007, the Dow 2009 Young Faculty Award, the 2010 Carl A. Dahlquist Award, the 2013 E. D. Brockett Professorship, the 2014 Texas A&M Engineering Experiment Station (TEES) Fellowship, 2015 Dean of Engineering Excellence Award and 2016 TEES Senior Research Fellow for his work in these areas. He has published over 140 journal papers and been granted several patents in these topics. He has graduated 19 PhD students and mentored more than 50 undergraduate students in his laboratory. Dr. Grunlan also holds joint appointments in Chemistry and Materials Science and Engineering. He is an Editor for *Journal of Materials Science*, Associate Editor for *Green Materials* and serves on the International Advisory Board for *Macromolecular Rapid Communications* and *Macromolecular Materials and Engineering*.