



学术报告



State Key Laboratory
of Chemical Resource Engineering

Multifunctional Polymer Nanocomposites

时间：12月9号 上午9:30 地点：科技大厦302

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Advanced Materials, Advanced Functional Materials, Angewandte Chemie, Energy & Environmental Science, Journal of Materials Chemistry等国外SCI主流期刊杂志发表研究论文310余篇，SCI他引10000余次，h-index为56 (google scholar)，并有多项美国专利。研究领域涉及：多功能纳米复合材料，电致变色，应变传感和磁场传感器件，电磁波屏蔽材料，环境可持续性和修复，污染物处理和回收，工业/民用安全材料及阻燃材料等。

报告简介： With more awareness of energy conversion/storage and saving, different strategies have been developed to utilize the sustainable and renewable energy. Introducing nanoscale fillers can make inert polymer matrix possess unique properties to satisfy certain functions. The introduced nanoparticles have made the transparent polymer have the electromagnetic interference (EMI) shielding function while reduce the density significantly. With the desired miniaturization, the materials combining different functionalities have become importantly interesting. In this talk, methodologies to prepare nanocomposites and their effects on the produced nanocomposites will be discussed. A variety of advanced polymer nanocomposites will be introduced. Unique properties including mechanical, electrical, magnetoresistance etc. and the applications for environmental remediation, energy storage/saving, fire retardancy, electromagnetic interference shielding, and electronic devices will be presented.

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