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师资队伍

材料学院

当前位置：首页 师资队伍 在职教师 按学院分类 材料学院

在职教师

按字母分类

按学院分类

讲客座教授

名师介绍

博士研究生导师

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#### Professor (Materials Science)

MS. Northwestern Polytechnic University (1989)

Ph.D. Northwestern Polytechnic University (1997)

#### Research Interests:

**Heat-resistant polymers; Advanced polymeric composites; Surface and interface of composites.**

**学历及学术经历:** 1981年毕业于西北工业大学并留校任教, 1995、1997年分别获得西北工业大学高分子材料和复合材料专业硕士、博士学位。1998年、1999年分别取得教授、博士生导师资格。2006年5月任职于苏州大学。2008年同时入选江苏省“333高层次人才工程”中青年科技领军人才培养对象(第二层次), 江苏省“六大人才高峰”项目。2009年获第五届“创业发明奖”。先后主持国家“863”计划、国家自然科学基金、国家重大专项项目、国家“十二五”规划重点项目、“九五”-“十五”武器装备预研项目、航天支撑基金等二十余项项目。在国内外核心期刊发表论文近300篇, 出版5部专著, 获中国发明专利授权127项, 12个项目分别获得省(部)级科技进步一、二、三等奖。

**研究领域:** 耐热热固性树脂, 先进树脂基复合材料, 复合材料表面与界面。

#### Representative Publications:

1. Binghao Wang, Limei Liu, Lizhen Huang, Guozheng Liang. Fabrication and origin of high-k carbon nanotube/epoxy composites with low dielectric loss through layer-by-layer casting technique. CARBON, 2015, 85: 28-37.
2. Wang, Tongxing; Liang, Guozheng; Yuan, Li; Unique hybridized graphene and its high dielectric constant composites with enhanced frequency stability, low dielectric loss and percolation threshold. CARBON, 2014, 77: 920-932.
3. Jin, Wenqin; Yuan, Li; Liang, Guozheng. Multifunctional cyclotriphosphazene/hexagonal boron nitride hybrids and their flame retarding bismaleimide resins with high thermal conductivity and thermal stability. ACS APPLIED MATERIALS & INTERFACES 2014, 6: 14931-14944.
4. Xiaoling Zhu, Li Yuan, Guozheng Liang, Aijuan Gu. Unique UV-resistant and surface active aramid fibers with simultaneously enhanced mechanical and thermal properties by chemically coating  $Ce_{0.8}Ca_{0.2}O_{1.8}$  having low photocatalytic activity. JOURNAL OF MATERIALS CHEMISTRY A 2014, 2: 11286-11298.
5. Zhiyong Zhang; Li Yuan, Guozheng Liang, Aijuan Gu. Unique hybridized carbon nanotubes and their high performance flame retarding composites with high smoke suppression, good toughness and low curing temperature. JOURNAL OF MATERIALS CHEMISTRY A 2014, 2: 4975-4988.
6. Xiangxiu Chen, Juhua Ye, Li Yuan, Guozheng Liang, Aijuan Gu. Multi-functional ladderlike polysiloxane: synthesis, characterization and its high performance flame retarding bismaleimide resins with simultaneously improved thermal resistance, dimensional stability and dielectric properties. JOURNAL OF MATERIALS CHEMISTRY A 2014, 2: 7491-7501.
7. Yicheng Jiao, Li Yuan, Guozheng Liang, Aijuan Gu. Facile preparation and origin of high-k carbon nanotube/poly(Ether Imide)/bismaleimide composites through controlling the location and distribution of carbon nanotubes. JOURNAL OF PHYSICAL CHEMISTRY C 2014, 118: 24091-24101.
8. Binghao Wang, Yicheng Jiao, Aijuan Gu, Guozheng Liang, Li Yuan. Dielectric properties and mechanism of composites by superposing expanded graphite/cyanate ester layer with carbon nanotube/cyanate ester layer. COMPOSITES SCIENCE AND TECHNOLOGY 2015, 91: 8-15.

9. Chen, Xiangxiu, Guozheng Liang, Aijuan Gu, Li Yuan. Flame retarding cyanate ester resin with low curing temperature, high thermal resistance, outstanding dielectric property, and low water absorption for high frequency and high speed printed circuit boards. *INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH* 2015, 54: 1806-1815.
10. Hongrui Zhang, Li Yuan, Guozheng Liang, Aijuan Gu. Effect and origin of the structure of hyperbranched polysiloxane on the surface and integrated performances of grafted Kevlar fibers. *APPLIED SURFACE SCIENCE* 2014, 320: 883-894.
11. Zhixiang Qiang, Liang, Guozheng; Gu, Aijuan. The dielectric behavior and origin of high-k composites with very low percolation threshold based on unique multi-branched polyaniline/carbon nanotube hybrids and epoxy resin. *COMPOSITES PART A-APPLIED SCIENCE AND MANUFACTURING* 2014, 64: 1-10.
12. Qiang, Zhixiang; Li Yuan, Guozheng Liang, Aijuan Gu. The interaction between unique hyperbranched polyaniline and carbon nanotubes, and its influence on the dielectric behavior of hyperbranched polyaniline/carbon nanotube/epoxy resin composites. *JOURNAL OF NANOPARTICLE RESEARCH* 2014, 16: 2391.