

## 池延斌

### 报告人简介:

池延斌 男 生于 1967 年，西安建筑科技大学，高级工程师。

长期从事材料工程研究，主持设计、建设了国内多条短纤维-生物基复合材料生产线，其中有条为国内产能最大的生产线。参加了生物基材料国家标准项目（项目编号为 20080126-T-607）《GB/T 30406-2013 植物纤维模塑制品通用技术要求》起草工作。



## Yanbin Chi

### Profile of the Author:

Chi Yanbin Male Born in 1967 ,Xi'an University of Architecture and Technology Senior Engineer

He has long been engaged in materials research and engineering construction. He was involved in the design and construction of a number of domestic bio-based short fiber composite materials production lines, two of which have the largest production capacity of domestic production lines. He participated in the preparation of bio-based materials to national standards project (project number is 20080126-T-607). He is the drafter of "GB/T 30406-2013 plant fiber moldings general technical requirements".

## 植物短纤维—生物基复合材料及产品研究进展

**摘要:** 植物短纤维-生物基复合材料是近年来兴起的一种新型材料，它的主要原料取材于农作物秸秆短纤维、竹子短纤维、麻短纤维等，与生物基树脂如改性淀粉、大豆蛋白胶、聚乳酸等复合，通过模塑、注塑制成容器、工艺品、日用品，包装材料等。产品具有强度高、表面纹理天然、质朴，颜色鲜艳，质感新颖等特点，可以替代部分塑料、玻璃、陶、瓷等制品，废弃后可生物降解，是一种新型环境友好材料。

# **Research Development of Natural Short Fiber Reinforced Bio. Composites and its Products**

**Abstract:** Plant short fiber-biologically based composite material is a new type of material which has been developed in recent years. Its main materials are obtained from short fiber of crop straw, short bamboo fiber, short fiber and so on. It is combined with biobased resin such as modified starch, soy protein glue and polylactic acid to make containers, crafts and crafts by molding and injection molding. Daily necessities, packaging materials and so on. The product has the characteristics of high strength, natural surface texture, simple texture, bright color, novel texture and so on. It can replace parts of plastic, glass, pottery, porcelain and other products. It can be biodegradable after abandonment. It is a new environment friendly material.