

# 杨义浒

## 报告人简介:

### 一、学习经历

1. 1988 年北京大学毕业
2. 1997 年中国社会科学院研究生院毕业。
3. 2014 年武汉大学博士研究生毕业。
4. 2017 年至 2018，剑桥大学嘉治商学院访问学者。



### 二、工作经历

1. 1988-1997 年，在湖北省石化厅工作。
2. 1997-2001 年，任湖北楚虹化工股份公司董事、常务副总经理；兼任荆州楚虹农资公司董事长；兼任湖北维康生物科技股份有限公司董事长。
3. 2002 年-迄今，任深圳光华伟业股份有限公司董事长、总经理，孝感易生新材料有限公司董事。

### 三、行业影响和作用

1. 2013 年福布斯中国科技先锋。
2. 2014 年湖北省科技创业领军人才。
3. 2015 中国 3D 打印行业 10 大最具影响力人物之一。
4. 2016 年入选科技部创新人才推进计划。
5. 2017 年入选国家第三批“万人计划”创业领军人才。
6. 参与起草《聚己内酯》、《聚乳酸》和《PLA3D 打印耗材》等国家标准，主持承担了科技部微波合成聚乳酸项目国家中小企业创新基金项目，主持承担了科技部高纯高光学度系列乳酸酯项目国家中小企业创新基金项目，主持承担了国家发改委 1 万吨/年聚乳酸国家战略性新兴产业项目。
7. 申请了 30 多项国际、国内发明专利，已授权近 20 项。
8. 为中国塑料工业协会降解材料专委会副会长，深圳市高分子协会常务副会长，低碳生物塑料产业技术联盟理事长。

# **YiHu Yang**

## **Profile of the Author:**

### **Education experience**

1. Graduated from Peking University in 1988.
2. Graduated from Graduate School of the Chinese Academy of Social Sciences in 1997.
3. Graduated from Wuhan University in 2014.
4. Visiting scholar of Cambridge Judge Business School from 2017 to 2018 .

### **Work experience**

1. 1988-1997, worked in Hubei Provincial Petrochemical Industrial Department.
2. 1997-2001, worked as the chairman and the standing vice general manager of Hubei Chu Hong chemical stock company, and the chairman of Jingzhou Chuhong agricultural company, and the chairman of Hubei Wei Kang Bio Science and technology stock company.
3. From 2002 to now, worked as president and general manager in Shenzhen Esun Industrial Co.,Ltd., and the chairman of Xiaogan Esun New Material Co., Ltd..

### **The impact and role of the industry**

1. Chinese Science and Technology Pioneer by Forbes China in 2013.
2. Hubei Provincial Scientific and Technological Innovation and Entrepreneurial Talent in 2014.
3. One of the 10 Most Influential People of China 3D Printing Industry in 2015.
4. Chinese Scientific and Technological Innovation and Entrepreneurial Talent by National Ministry of science and technology in 2016.
5. The third batch of ten thousand person plan pioneering talents in the country in 2017.
6. Participated the drafting of national standards such as polycaprolactone, polylactic acid and PLA3D printing consumables. Presided the national small and medium enterprises innovation fund of the microwave synthesis of polylactic acid project by the Ministry of Science and Technology. Presided the national small and medium enterprises innovation fund of the high optical content lactic ester project by the Ministry of Science and Technology. Presided the polylactic acid projects of 10 thousand tons of annual national strategic emerging industries of National Development and Reform Commission.

7. Have applied more than 30 international and domestic invention patents have been applied, and nearly 20 have been authorized.
8. Vice president of degradable professional committee in China Plastics Industrial Association. Executive vice chairman of Shenzhen Polymer Association. Chairman of low carbon bio-plastics industrial innovation alliance.

## 生物材料、3D 打印与化学回收

**摘要：**随着 3D 打印技术的不断发展，其在各行业中的应用也不断增多，特别是生物塑料 3D 打印的个性化、精准化应用，得到了社会的广泛关注。本文对生物塑料、3D 打印技术及其应用进行了详细的阐述，并介绍了部分生物塑料在 3D 打印中的应用与回收。

## **Biopolymers for 3D Printing and the Chemical Recycling Technology**

**Abstract:** With the continuous development of 3D printing technology, its application in various industries is increasing, especially the personalized and accurate application of the bio-plastic 3D printing, which has received extensive attention from the society. In this paper, bio-plastics, 3D printing technology and its application are described in detail, and the application and recycling of some bio-plastics in 3D printing is introduced.