

# BAYNOE CHEM (SUZHOU) CO.,Ltd. 桔诺 (苏州) 新材料有限公司

| technology | innovation | security | discipline | team |



# **Core Value**

全员创业 人尽其才

- 以技术为尊, 推崇创新
- 以纪律为准,服从管理
- 以安全为纲,坚守红线
- 以团队为友,友爱互助
- 以公司为家, 荣辱与共



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# 01

# introduction

becoming an innovator and supplier of OLED molecular blocks and new materials

profitable company and valuable company

#### 1.1 Profile

BAYNOE, established at the end of 2017, is a high-tech enterprise specializing in the R&D, manufacture and sales of electronic chemicals such as OLED materials and photoresist, and a **SRDI enterprise** in Jiangsu Province. The company has a 2,600 m<sup>2</sup> R&D center in **SIP**, with the investment of more than 20 million yuan in equipment, and more than 50 high-skilled R&D personnel from Zhejiang University, Lanzhou University and Soochow University. It has set up an ITC in Shanghai and built 3000 m<sup>2</sup> international standardized production workshop.

The company is committed to the R &D and production of OLED key materials and photoresist, involving organic light-emitting materials, hole transport materials and electronic transport materials, and has formed a complete IP layout. The company develops more than 300 products per year, and by 2023, it has developed more than 1,800 products, covering more than 90% of OLED structure types, more than 60 mass-production projects in the production base. It has applied for 40 patents, and some patented products have been verified by manufacturers.







### 1.2 Founding team



#### <u>吴清来 / Wu Qinglai (CEO)</u>

Postdoctoral fellow at Zhejiang University Engaged in chemical work in 2001, He is good at R&D of large-scale product technology and new OLED materials. A number of technical invention patents have been obtained, and the production of specific products accounts for 60% of the world's production.







#### 宋文志 / Song Wenzhi (GM)

#### Graduated from Lanzhou University

In 1999, he was engaged in chemical work, and in 2005, he began to engage in the development and research of OLED products. Good at R&D and mass production of new OLED processes. The general manager of BAYNOE is responsible for the production of the company's factory mass production projects.

#### <u>程佳伟/Chen Jiawei (MD)</u>

Rich experience in domestic and foreign market analysis, development and sales of OLED new materials, and has rich market information and customer resources in the field of OLED new materials.

#### <u>李显跃/Li Xianyue (CTO)</u>

With 15 years of experience in the development and industrialization of organic synthesis technology. In the past 10 years, he has served as the research and development project leader in OLED new materials related enterprises, and has mastered the synthesis and production technology of more than 300 OLED new materials.



### 1.3 Development history





### 1.4 Industrial layout



OLED intermediates, OLED molecular blocks and pre-sublimation material supplier



Innovation-driven, technology-oriented, product-oriented!

### 1.5 Business model canvas





- Early-term ( $\leq$ 5 years) : Driven by innovative technology, using the technical influence and market resources accumulated by entrepreneurial talents in the industry, technology development and industrialization of existing products and product customization services.
- Medium-term (5-8 years) : Driven by innovative technology and products, it enters the stage of independent new product development and forms patented products and technologies.
- Later period (≥8 years) : Driven by innovative products, with independent innovation products as the core development driving force, to become a leader in independent innovation materials.





## **R&D** center

**Business policy: Innovation-driven, technology-oriented, product-oriented** 

Business strategy: R&D investment, team building, platform building









### 2.1 R&D platform





### 2.3 R&D lab









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设备	品牌	型号	数量
核磁共振波普仪	Bruker	400'54 Ascend	1
高效液相色谱仪	Agilent	HP1200	3
液相色谱仪	Shimadzu	LC-20AD XR	4
气相色谱仪	Aglient	GC7890	5
气相色谱-质谱联机	Aglient	GC-MS6890	1
红外光谱仪	Thermo Fisher	Nicolet 6700	1
紫外光谱仪	Aglient	Cary 60	1
流变仪	Mettler Toledo	MCR-302	1
熔点仪	Mettler Toledo	MP90	1
水分测定仪	Mettler Toledo	V20	2











### 2.5 Block library





### 2.6 Block library



#### 2.7 Core technology







#### 2.7 Core technology



- More than 1000 types of OLED front-end material compounds have been developed, and more than 1,500 types of synthesis routes have been independently developed, and the products have achieved full coverage of luminous layer materials and universal layer materials
- ◆ Original "complexation crystallization analysis ion adsorption" four-step purification method: only one sublimation is required, product content ≥ 99.5%, total ion content ≤ 1ppm
- Development of deuterated materials and creating a new direction for OLED luminescent materials

### 2.8 Scale product







### 2.9 Deuterated products





#### 2.10 Other Product





#### 2.11 Intellectual property







No.	project	Time
1	National high-tech enterprises	2021-12
2	National science and technology enterprises	2023-4
3	private science and technology enterprises	2023-4
4	SRDI enterprise	2023-11
5	quality credit grade A	2023-4
6	The 8th Maker China Top 100 Project/Winner Award	2023-10
7	entrepreneurial Angel Program	2019-7
8	Leading talents of SIP	2020-12
10	innovative enterprises of Jiangsu	2023-4
11	graduate practice base of Yangtze University	2021-6









# Manufacture

# BAYNOE

### 3.2 Production base

production base Address: Zhangjiagang Area:: 3000m<sup>2</sup> Equipment: 20 Capacity: 30MT/a

20 set of reeactor exclud 2 set of ultra-low temperature reactor, refrigeration units, centrifuges, drying systems, nitrogen systems, etc.





# Thanks !

#### | TECHNOLOGY | INNOVATION | SECURITY | DISCIPLINE | TEAM |