

## Preface

Intelligent manufacturing is the sum of manufacturing technology and information technology, which contain intelligent manufacturing technology and intelligent manufacturing system, and runs through the whole chain of manufacturing activities, such as design, production, management and service, etc. The "made in China 2025" plan points out the direction for the middle and high-end development of China's manufacturing industry. In order to improve the enterprise's technological innovation ability and the ability of industry technology research and development, the International Functional Materials and Manufacturers Association (IFMMA) , collects papers related to intelligent manufacturing, mainly including material preparation and application, material processing and technology, etc., so as to provide technical innovation thought and the industrial development to guide industry.

The paper submitted was reviewed by scientists in the field of materials science and mechanical engineering engaged in intelligent manufacturing research, and evaluated according to its originality, innovation, technical value and applicability. These papers reflect the theoretical and experimental research of intelligent manufacturing technology, and have a broad application prospect.