

# PREFACE

The China-Russia Symposium on New Materials and Technologies has been held successfully for eight times up to now, which has gained favorable comments and supports from both Chinese and Russian scholars in material field, as well as affirmation and attention from related government departments of two countries. There have been more and more institutions, scientists and engineers participating in the symposium both in China and Russia, and it has been on a larger and larger scale. At present the symposium has become an international conference of a certain scale alternately held every two years in China or in Russia.

From the previous seven symposiums, the areas involved have been gradually expanded, which has covered nonferrous metals, iron & steel, aerospace, chemicals, and medicine, etc. With the expansion of areas covered in the symposium and the increase of attending institutions, the influence of the China-Russia Symposium on New Materials and Technologies has increasingly been noticeable in the material field both in China and Russia, even in the world.

Looking back the developing process of the China-Russia Symposium on New Materials and Technologies over ten years, we have found that, by means of the symposium, the understanding and friendship have been deepened and promoted among the attending experts and scholars, and the bilateral academic exchange and technology cooperation have been also greatly promoted, which have made active contributions to the development on new materials and technologies of both in China and Russia. The symposium has become an effective way for Chinese and Russian material field to communicate and advance cooperation in science and technology. With the support from Chinese and Russian governments, and active participation of two countries' scientific and technical workers, the symposium will be more and more successful.

The proceedings of the 8th China-Russia Symposium on New Materials and Technologies include 181 papers altogether (73 from China and 108 from Russia). They are the results of hard work in the field of new materials and technologies in recent years by the scientific and technical workers of both China and Russia. These papers contain both theory and practice, both breadth and depth, thus having higher academic level. The proceedings published will bring constructive inspiration to readers and expand their minds in the research and development of material science.

Chairman of the Chinese Organizing Committee:

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# 前 言

中俄双边新材料新工艺研讨会至今已举办了八次,会议的成功举办,得到了中俄两国材料界学者的好评和支持,并得到了两国有关政府部门的认同和重视。中俄两国参加会议的单位和科学家和工程师越来越多,会议规模越来越大,目前,中俄双边新材料新工艺研讨会已成为具有一定规模的、每两年分别在中俄两国举办的国际系列会议。

从已召开的七次会议的情况可以看出,会议涉及的领域逐步扩大,与会代表已发展到有色金属、钢铁、航空航天、化工、医疗等许多学科和行业,随着会议探讨领域的扩大和参加会议单位的增多,中俄双边新材料新工艺研讨会在中国、俄罗斯以至世界材料学界的影响日益显著。

回顾十多年来中俄双边新材料新工艺研讨会的发展历程,可以看出:与会的学者专家通过研讨会的渠道增加了了解,加深了友谊,同时有力地促进了双边学术交流与技术合作,为两国新材料新工艺的发展做出了积极的贡献。研讨会已成为中俄两国材料学界交往和推进科技合作的有效形式,在中俄两国政府的支持下,有两国科技工作者的积极参与,会议将会越办越好。

第八届中俄双边新材料新工艺研讨会论文集收集论文 181 篇,其中有中方 73 篇,俄方 108 篇。这些论文都是近年来中俄两国科技工作者在新材料新工艺领域辛勤工作的劳动结晶,既有理论,又有实践,既有广度,又有深度,具有较高的学术水平。论文汇编的出版将令读者从论文中得到有益的启迪,开阔材料科学研究和技术开发的思路。

中俄双边新材料新工艺研讨会中方组委会主席 王淀佐院士