

陈昌麒

论文选集

The  
Selected Works  
of  
C.Q.Chen (Chen Changqi)

*Edited by*

Materials Science and Engineering College, BUAA

北京航空航天大学出版社

# 陈昌麒论文选集

北京航空航天大学  
材料科学与工程学院 编

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Selected Works  
of  
C. Q. Chen (Chen Changqi)**

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Materials Science and Engineering College  
BUAA

BUAA Press

## 内容简介

文集选编了陈昌麒教授在材料科学与工程领域多年的科研论文。重点选编了他在铝合金、钛铝金属间化合物及其复合材料方面的论文。这些论文均在国内外有较大影响的刊物上发表过。

文集的读者对象主要是在本学科领域从事科研与教学的人员和大学生、研究生。

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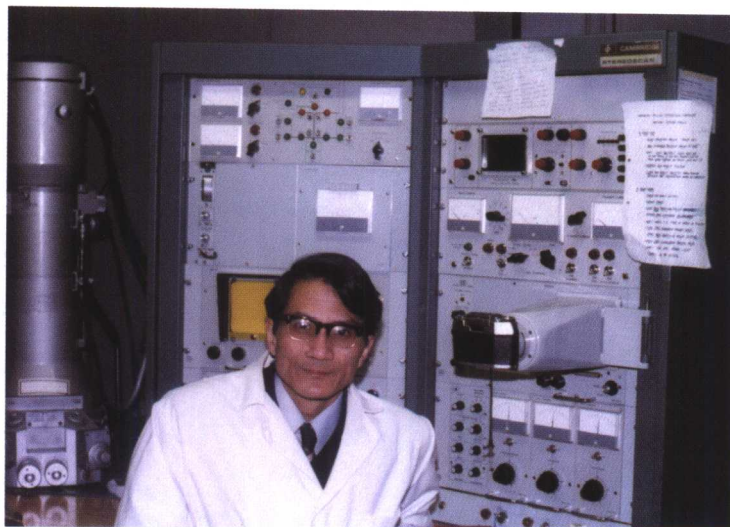
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Chen Changqi (C.Q.Chen)

陈昌麒教授





In the laboratory of Cambridge University, UK.

在英国剑桥大学实验室

Giving plenary lecture at ICAA2.

在第二届国际铝合金大会作报告

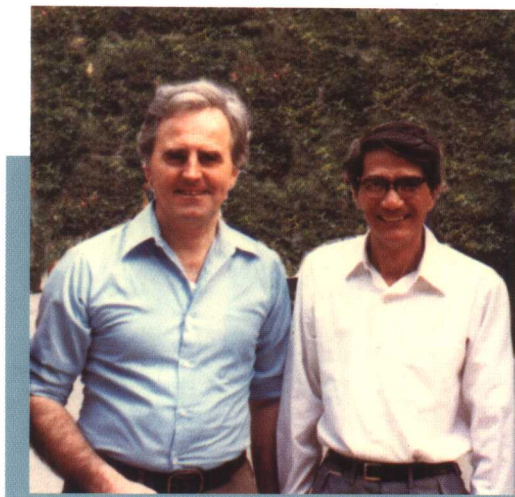




With Prof. M Cohen from MIT, USA  
in Beijing.  
美国 MIT 的 Cohen 教授访问北京

With Prof. J F Knott at University of Birmingham, UK.  
在英国伯明翰大学 Knott 教授办公室





With Prof. R M Pelloux from MIT, USA in China.  
美国 MIT 的 Pelloux 教授访问中国



With Prof. R O Ritchie from UC Berkeley, USA at an  
International Conference.

与美国 UC Berkeley 大学 Ritchie 教授在国际会议上





With Prof. M C Chaturvedi from U. Manitoba, Canada co-chairs ICFAP'95.

与加拿大 Manitoba 大学 Chaturvedi 教授共同主持 ICFAP'95



With Prof. I J Polmear from U. Monash, Australia at an International Conference.

与澳大利亚 Monash 大学 Polmear 教授在国际会议上



With Prof. T Kobayashi from TUT, Japan at ISEAM97.

与日本 TUT 大学 Kobayashi 教授在 ISEAM-97 上

With Prof. C Bathias at CNAM in Paris, France.

在法国巴黎 CNAM 大学 Bathias 教授办公室



# I.C.A.A.5 The 5th International Conference on Aluminium Alloys



International Committee Members at ICAA5.  
国际铝合金大会的国际委员会



Closing Ceremony of ICAA6 in Toyohashi, Japan.  
在 ICAA6 的闭幕酒会上



# Beijing

## **SECOND INTERNATIONAL CONFERENCE ON ALUMINUM ALLOYS ICAA-2**

October 9-13, 1990, Beijing, P.R.China



Chair ICAA2 in Beijing.

在北京主持召开第二届国际铝合金大会



## FOREWORD

Professor C. Q. Chen (Chen Changqi) is a world famous expert of aluminum alloys. He is very well known for his outstanding work on aerospace structural materials. He is an academic leading person in the School of Materials Science and Engineering of Beijing University of Aeronautics and Astronautics, and he is the chairman of the academic committee of the School. Professor Chen is an honorary director of the Aerospace Structural Materials Institute of Beijing University of Aeronautics and Astronautics (BUAA), and he is a distinguished professor of the University.

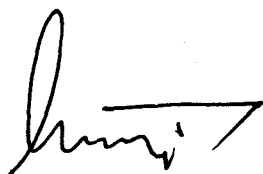
Professor Chen was transferred from Tsinghua University to BUAA as a student in 1952, the year of Chinese higher education reconstruction and establishment of BUAA, and became to teacher in 1958 after he graduated from the Graduate School of BUAA. He has been working at BUAA since then, teaching and doing research. He has given many different courses to the undergraduates and postgraduates, training and supervising a great number of outstanding engineers, researchers and managers for universities, institutions, and aerospace and other industries. He has students everywhere in China and abroad. He has been awarded as a distinguished supervisor by the Chinese Aviation Ministry, a Tao Lie Prize by the University and the first grade prize of higher education achievement by Beijing Education Bureau.

Professor Chen has achieved excellent results in the fields of the development, application of advanced aluminum alloys, titanium aluminides, and of other advanced materials. Many papers have been published in many well-known international and domestic journals.

Prof. Chen has been invited to give plenary and keynote lectures at conferences in China and abroad. Prof. Chen has received a lot of respect from scientists and engineers. He has been given many awards for his research work.

Professor Chen used to be the head of the Department of Materials Science and Engineering of BUAA, the chairman of the academic committee of the department, a member and vice chairman of the academic committee of the University. He is noted for his meticulous scholarship and academic discipline. He stresses personality cultivation as well as knowledge teaching. He has been contributed very much to the development and improvement of the School.

*The Selected Works of C. Q. Chen (Chen Changqi)* compiled by the School of Materials Science and Engineering is for the 50th anniversary of the University. *The Selected Works of C. Q. Chen (Chen Changqi)* also sees achievements of Professor Chen, his co-workers and his students.

A handwritten signature in black ink, appearing to read 'Li Wei', with a stylized flourish at the end.

Li Wei

President of Beijing University of Aeronautics and Astronautics  
Professor

Academecian (Member) of the Chinese Academy of Science

## 序

陈昌麒教授是国际著名铝合金专家,我国航空航天结构材料知名学者,北航材料科学与工程学科的学术带头人,材料学院学术委员会主任,北航航空航天结构材料研究所名誉所长,我校资深教授。

陈昌麒教授是我校 1952 年建校时全国院系调整从清华大学过来的学生,1958 年研究生毕业后留校任教,此后一直工作在我校教学、科研第一线。四十四年来,他讲授过多门课程,培养了大量的本科生和研究生,为国家航空航天和其他工业部门、研究院所、高等学校输送了大量优秀的高级工程技术人才、研究学者和管理干部,他的学生遍及海内外。为此他获得过中国航空工业总公司优秀研究生导师,北航博士生培养桃李奖,北京市高等教育成果一等奖。

陈昌麒教授在轻合金,特别是先进铝合金、钛铝金属间化合物及其他先进结构材料的发展、应用和基础理论方面进行了大量的研究工作并取得了多项重要的研究成果。他在国际国内著名期刊上发表了大量高水平的学术论文,多次被邀请在重要的国际和国内会议上做报告,在国内外材料科学与工程学科领域享有盛誉。

陈昌麒教授曾长期担任我校材料科学与工程系(学院)系主任,系(学院)学术委员会主任,校学术委员会委员、副主任。他治学严谨,学风正派、勤奋工作、教书育人。他在材料科学与工程学院的学科建设、师资队伍建设、学术风气、教学研究条件建设、国际交流等方面做了大量的工作,为材料学院的进步和发展做出了重大贡献。

材料科学与工程学院选择了他的部分学术论文,编辑出版了这部

《陈昌麒论文选集》，以此来迎接我校校庆 50 周年和总结材料科学与工程学院学科发展历程。从《陈昌麒论文选集》中，我们也可以看到陈昌麒教授和他的学术梯队成员，以及他的学生们的辛勤劳动和研究成果。

北京航空航天大学校长  
北京航空航天大学教授  
中国科学院院士

李 书



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