

中国材料进展

ZHONGGUO CAILIAO JINZHAN

第29卷总第344期 2010年第8期 (月刊)



主管单位: 西北有色金属研究院

主办单位: 中国材料研究学会

西北有色金属研究院

协办单位: 中国工程院化工、冶金与

材料工程学部

编辑: 《中国材料进展》杂志社

地址: 陕西省西安市未央路96号

邮编: 710016

网址: <http://www.mat-china.com>

主编: 周廉

副主编: 王克光 韩雅芳 刘建章

社长: 杜明焕

副社长: 贾豫冬 闫果 黄淑梅

北京编辑部: 王克光 陆辛 张增志

电话: 010-82376537

西安编辑部: 刘建章 黄淑梅 易毅刚

刘春芳 范丹 刘新梅

电话: 029-86224484

E-mail: editor@mat-china.com

rml@c-nin.com

广告发行部: 薛煜峰 高虹

电话: 029-86224484 86226599

传真: 029-86282362

E-mail: ad@mat-china.com

出版: 化学工业出版社

印刷: 西安创维印务有限公司

国内发行: 陕西省邮政报刊发行局

邮发代号: 52-281

国外发行: 中国国际图书贸易总公司

发行代号: M2980

国内统一刊号: CN 61-1473/TG

国际标准刊号: ISSN 1674-3962

广告经营许可证: 6100004000126

国内定价: 20元/册

国际定价: 96美元/年

目次

先进材料专栏

The Progress of Special Lubricating Materials—A Brief Review

XUE Qunji, ZHANG Junyan (1)

Review of the Research on the Nonlinear Optical Crystal: LiB₃O₈

HU Zhanggui, WU Yicheng (12)

Research on Materials and Superconductivity in Iron Pnictides

WEN Haihu (18)

Photocatalytic Ceramic Foam Filter: Application Research Progress and Prospect

ZHOU Zhonghua, HUANG Yue (27)

信息功能陶瓷研究的新进展与挑战

南策文, 王晓慧, 陈湘明, 李敬锋, 李永祥, 徐卓,

汪宏, 翟继卫, 岳振星, 李龙土, 姚熹 (30)

高性能镁合金研究及应用的新进展

丁文江, 吴玉娟, 彭立明, 曾小勤, 林栋樑, 陈彬 (37)

锂离子电池及相关材料进展

黄学杰 (46)

材料教育

基于国际合作科研模式培养材料创新人才的实践

张立学, 刘刚, 丁向东, 孙军 (53)

人物纪实

悠悠赤子心, 殷殷育人情

——祝贺我国材料科学领域的一位大师李恒德先生九十华诞 (60)

综合报道

汇聚业界高端智囊 打造纳米“苏州高地”

——苏州纳米技术产业专家咨询委员会成立大会暨第一届专家咨询会

成功召开 (63)

机动车尾气污染控制技术与产业发展取得明显进展 (17)

973计划项目“水泥低能耗制备与高效应用的基础研究”进展顺利 (29)

2010 IUMRS国际材料教育论坛将在京召开 (52)

“第七届环太平洋先进材料及加工国际会议”在澳大利亚召开 (59)

中国国际纳米技术产业发展论坛暨纳米技术成果与产品展将在苏州举行

(64)

期刊基本参数: CN61-1473/TG*1982*M*A4*64*ZH*P* ¥ 20.00*5000*08*2010-08

MATERIALS CHINA

Vol.29 No.8 Sum 344 August 2010 (Monthly)

Contents

Special Column for Advanced Materials

- The Progress of Special Lubricating Materials—A Brief Review
..... XUE Qunji, ZHANG Junyan (1)
- Review of the Research on the Nonlinear Optical Crystal: LiB₃O₈
..... HU Zhanggui, WU Yicheng (12)
- Research on Materials and Superconductivity in Iron Pnictides
..... WEN Haihu (18)
- Photocatalytic Ceramic Foam Filter: Application Research Progress and Prospect
..... ZHOU Zhonghua, HUANG Yue (27)
- Recent Progress and Challenge of Functional Ceramics for IT
..... NAN Cewen, WANG Xiaohui, CHEN Xiangming, *et al* (30)
- Research and Application Development of Advanced Magnesium Alloys
..... DING Wenjiang, WU Yujuan, PENG Liming, *et al* (37)
- Li-Ion Battery and Its Key Materials
..... HUANG Xuejie (46)

Materials Education

- Cultivation of Creative Talents in Materials Science Based on
Internationally Academic Collaboration
..... ZHANG Lixue, LIU Gang, DING Xiangdong, *et al* (53)

People Documentary

- A Master in China's Materials Science Field
—Congratulations on the 90th Birthday of Professor LI Hengde (60)

Comprehensive Reports

- Gathering Top-Level Talents and Creating Nano Suzhou Heights
—Suzhou Nanotech Industry Expert Consultative Committee and
the 1st Expert Consultative Session Held Successfully (63)
- Important Progress Made in Vehicle Exhaust Pollution Control
Technology and Industrial Development (17)
- Progress Smoothly Made in Basic Research on Low Energy Preparation and
High Efficient Application of Cement, the National Basic Research Program
of China (973 Program) (29)
- 2010 IUMRS International Forum on Materials Education will Be Held in Beijing (52)
- The 7th Pacific Rim International Conference on Advanced Materials and
Processing Held in Australia (59)
- CHINANO Forum 2010 and CHINANO Exhibition 2010 will Be Held in Suzhou (64)

Sponsored by Chinese Materials Research Society
Managed by Northwest Institute for Nonferrous
Metal Research
Supported by Division of Chemical, Metallurgical
and Materials Engineering, CAE
Edited by The Editorial Board of Materials China
Address: No.96, Weiyang Road, Xi'an City,
Shaanxi 710016, P.R. China
Website: <http://www.mat-china.com>

Editor-in-Chief: Zhou Lian

Vice-Chief Editors:

Wang Keguang Han Yafang Liu Jianzhang

President: DU Minghuan

Vice President:

JIA Yudong YAN Guo HUANG Shumei

Beijing Editorial Office:

Wang Keguang Lu Xin Zhang Zengzhi

Telephone: 0086-10-82376537

Xi'an Editorial Office:

Liu Jianzhang Huang Shumei Yi Yigang

Liu Chunfang Fan Dan Liu Xinmei

Telephone: 0086-29-86224484

E-mail: editor@mat-china.com

rml@c-nin.com

Advertisement & Issue Office:

Xue Yufeng Gao Hong

Telephone: 0086-29-86224484 86226599

Fax: 0086-29-86282362

E-mail: ad@mat-china.com

Published by Chemical Industry Press

Printed by Xi'an Chuangwei Printing Co., Ltd.

Domestic Distributor:

Post Distributing Office of Shaanxi

Post Distribution Code: 52-281

Overseas Distributor:

China International Book Trading Corporation

Overseas Circulation Code: M2980

Overseas Annual Subscription Rate: USD96

Serial Parameters: CN61-1473/TG*1982*M*A4*64*ZH*P* ¥ 20.00*5000*08*2010-08