

中国材料进展



MATERIALS CHINA

CN 61 — 1473/TG
ISSN 1674 — 3962

结构陶瓷与陶瓷基复合材料专栏 (I)

聚焦2015新材料国际发展趋势高层论坛



ISSN 1674-3962

10 >

9 771674 396089

中国材料研究学会 主办
化学工业出版社 出版





中国材料进展

ZHONGGUO CAILIAO JINZHAN

第34卷总第406期 2015年第10期 (月刊)

目次

聚焦2015新材料国际发展趋势高层论坛

专注新材料发展趋势 推动自主创新和科技进步 —— 2015新材料国际发展趋势高层论坛纪实	(705)
学科交叉融合 启迪新型智能材料的研发思路	(708)
全方位 多角度 新进展 新气象	(710)
纳米技术与材料——未来科技角逐的制高点	(712)
让纳米材料更好地服务于人类生活	(714)
OLED——新一代大型显示发光材料和技术	(716)
携手努力 共话OLED未来创新之路	(718)
没有储能电池 社会将无法发展	(720)
洞察国际能源材料的发展动态 把控国际能源材料的发展脉搏	(722)
取亿万年自然进化之灵感 服务人类未来社会之发展	(724)
构建以新一代生物材料为主体的新产业体系	(726)
百家争鸣 共论“21世纪绿色工程材料”——镁合金的发展未来	(728)
先进材料引领先进制造 共筑中国制造强国之梦	(730)
中外专家交流切磋材料基因组科学技术的战略思想及关键问题	(732)
探索材料性能的超微观结构起源	(734)
充分交流 广交朋友 促进成长 共同发展	(736)
国际工程科技发展战略高端论坛	(738)

结构陶瓷与陶瓷基复合材料专栏 (I)

浅析极端环境下服役陶瓷基复合材料的构建	董绍明, 周海军, 胡建宝, 阚艳梅 (741)
超高温陶瓷先驱体合成研究进展	邱文丰, 叶丽, 韩伟健, 赵彤 (751)
超高温陶瓷基复合材料的改性和烧蚀行为	段刘阳, 罗磊, 王一光 (762)
六方氮化硼(h-BN)基复合陶瓷研究与应用的最新进展	段小明, 杨治华, 王玉金, 陈磊, 田卓, 蔡德龙, 贾德昌, 周玉 (770)

重点实验室进展

中国科学院上海硅酸盐研究所陶瓷基复合材料研究团队	(783)
--------------------------------	-------

政策导读

《深化科技体制改革实施方案》摘编	(786)
------------------------	-------

综合报道

《中国材料进展》2015年度编委会暨理事会在上海召开	(750)
软如丝轻如絮保温好隔音强 新型玻璃纤维服务国产大飞机	(781)

学术会议信息

.....	(787)
-------	-------

主办单位: 中国材料研究学会
 承办单位: 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: 刘建章(常务) 韩雅芳 左家和
 社长: 杜明焕
 副社长: 贾豫冬 闫果
 编辑部主任: 王方
 编辑: 惠琼 易毅刚 盖少飞 朱宏康
 本期责任编辑: 王方
 电话: 029-86226599
 E-mail: rml@c-nin.com

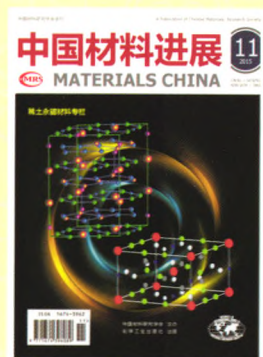
北京编辑部: 翁端 张增志 陆辛 窦臻
 电话: 010-58768037
 E-mail: materialschina@163.com

广告发行部: 高虹
 电话: 029-86226599
 传真: 029-86282362

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: 120美元/年





INTERNATIONAL UNION OF MATERIALS RESEARCH SOCIETIES

President

Hanns-Ulrich Haberman
MPI FKF, Germany

Past President

B.V.R. Chowdari
National University of Singapore, Singapore

First Vice President

Soo Wahn Lee
Sunmoon University, South Korea

Second Vice President

Yafang Han
Institute of Aeronautical Materials, China

Secretary

Yuan Ping Feng
National University of Singapore, Singapore

Treasurer

Sergio Mejia Rosales
Fac. de C. Fisico-Matematicas
Av. Universidad S/N, Mexico

General Secretary

R.P.H. Chang
Northwestern University, USA

IUMRS ADHERING BODIES

African Materials Research Society (African-MRS)
Materials Research Society of Australia (A-MRS)
Brazil Materials Research Society (B-MRS)
Chinese Material Research Society (C-MRS)
European Materials Research Society (E-MRS)
Materials Research Society of India (MRS-I)
Materials Research Society of Japan (MRS-J)
Materials Research Society of Korea (MRS-Korea)
Materials Research Society of Mexico (MRS-Mexico)
Materials Research Society of Russia (MRS-R)
Materials Research Society of Singapore (MRS-S)
Materials Research Society of Taiwan (MRS-T)

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

Editorial Office:

Telephone: +86-29-86226599

E-mail: rml@c-nin.com

materialschina@163.com

Overseas Distributor:

China International Book Trading Corporation

Overseas Circulation Code: M2980

Overseas Annual Subscription Rate: USD120

(Price changes due to RMB-USD exchange rate)

MATERIALS CHINA

Vol.34 No.10 Sum 406 October 2015 (Monthly)

Contents

Focus on 2015 International Forum on Advanced Materials

To Focus on Development Trend of Advanced Materials and Promote Independent Innovation & Technological Progress —Documentary Report on 2015 International Forum on Advanced Materials	(705)
Forum on Smart Materials	(708)
Forum on Nano Materials and Technology	(712)
Forum on OLED Materials and Technology	(716)
Forum on Energy Materials	(720)
Forum on Biomedical and Biomimetic Materials	(724)
Forum on Frontier Engineering Technology for Magnesium Alloy Materials	(728)
Forum on Advanced Materials Manufacturing Technology	(730)
International Summit Forum on Materials Genome Initiative	(732)
Forum on Materials Interface, Characterization and Test Technology	(734)
Excellent Young Scientist Sub-Forum	(736)
International Top-level Forum on Engineering Science and Technology Development Strategy —Oriented to Advanced Materials and Intelligent Manufacturing	(738)

Issue on Structural Ceramics and Ceramic Matrix Composites (I)

The Design of Ceramic Matrix Composites Served in Extreme Environment DONG Shaoming, ZHOU Haijun, HU Jianbao, <i>et al</i> (741)	(741)
Review on the Preparation of Ultra High Temperature Ceramic Precursors QIU Wenfeng, YE Li, HAN Weijian, <i>et al</i> (751)	(751)
Modification and Ablation Behaviors of Ultrahigh Temperature Ceramic Matrix Composites DUAN Liuyang, LUO Lei, WANG Yiguang (762)	(762)
Research and Application Progress of Hexagonal Boron Nitride (h-BN) Based Composite Ceramics DUAN Xiaoming, YANG Zhihua, WANG Yujin, <i>et al</i> (770)	(770)

Introduction of Key Laboratory

Research Team of Ceramic Matrix Composites at Shanghai Institute of Ceramics, CAS	(783)
---	-------

Policy Guide

The Implementation Plan to Deepen Reform of the Science & Technology System	(786)
---	-------

Comprehensive Report

The 2015 Editorial Committee and Council Meeting of Materials China Held in Shanghai	(750)
New Type of Soft, Light, Multi-functional Glass Fiber Applied in Domestic Large Aircraft	(781)

List of Academic Conferences	(787)
------------------------------------	-------

Serial Parameters: CN61-1473/TG*1982*M*A4*64*ZH*P* ¥ 20.00*2000*06*2015-10



上海交通大学

材料科学与工程学院

School of Materials Science and Engineering, SJTU

SMSE @ SJTU Welcomes You!



激情 Passion

创新 Innovation

凝聚 Collaboration

感恩 Appreciation

Contact:

Email: wshuang@sjtu.edu.cn

<http://en.smse.sjtu.edu.cn/>