



# 石墨烯的商业化解决方案

SOLUTIONS FOR COMMERCIALIZATION OF GRAPHENE

## 2015'中国国际石墨烯创新大会

2015' INTERNATIONAL GRAPHENE INNOVATION CONFERENCE

2015年10月28-30日 中国·青岛 Oct.28-30, 2015, Qingdao, China

Welcome to Qingdao 青岛欢迎您  
点燃“烯”望 成就梦想

Lighting up the hope of Graphene  
and fulfilling the dream of Carbon

# GRAPCHINA 2016

2016.09.22-24

### 中国石墨烯产业技术创新战略联盟

Secretariat of China Innovation Alliance of the Graphene Industry

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Qingdao International Graphene Innovation Center

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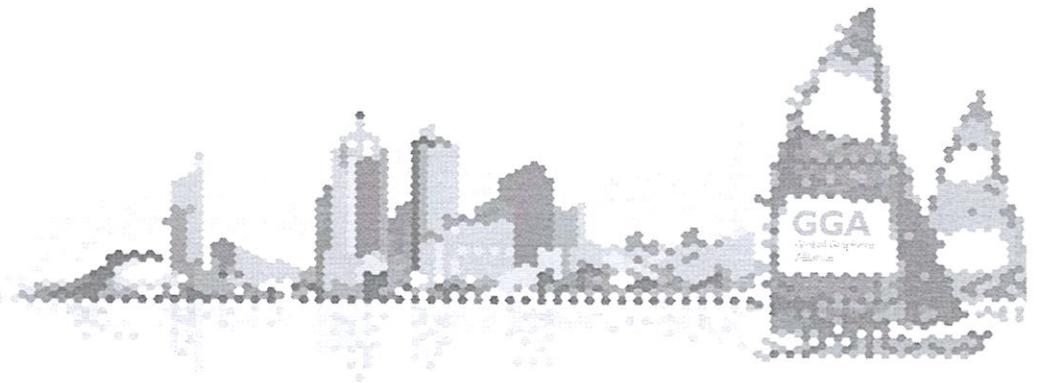
Hi-tech Industrial Development Zone, Qingdao, 266109, China

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联盟微信号: CGIA2013

大赛微信号: graphene-2015



主办单位: 中国石墨烯产业技术创新战略联盟 青岛国家高新技术产业开发区

Main Organizers: China Innovation Alliance of the Graphene Industry  
Qingdao National High-tech Industrial Development Zone

Thursday Afternoon, October 29 10月29日(星期四)下午

Parallel 平行分会场



13:30 Meeting Room NO.7101 7101会议室

**Symposium B13: Lithium-ion Battery**  
分会场B13: 石墨烯在锂离子电池领域的应用  
Organizer: Thermo Fisher Scientific, China  
承办单位: 赛默飞世尔(中国)科技有限公司(中国)  
Session Co-chairs: Zhaoping Liu, Ningbo Institute of Materials Technology & Engineering, Chinese Academy of Sciences, China; Vittorio Pellegrini, Italian Institute of Technology, Italy; Guihua Yu, University of Texas at Austin, USA  
分会中方主席: 刘兆平, 中国科学院宁波材料技术与工程研究所(中国); 外方主席: Vittorio Pellegrini, 意大利理工学院(意大利); Guihua Yu, 德克萨斯大学奥斯汀分校(美国)

13:30-13:55 THU2.101: Graphene and Other 2d Crystals for Energy Devices  
石墨烯及其它二维材料在能源器件中的应用  
Vittorio Pellegrini, Italian Institute of Technology, Italy  
Vittorio Pellegrini, 意大利理工学院(意大利)

13:55-14:20 THU2.102: Graphene-Based Composites as Advanced Electrodes for Energy Storage  
石墨烯基先进复合电极材料的储能研究  
Yan Yu, University of Science and Technology of China, China  
余彦, 中国科技大学(中国)

- 14:20-14:45 THU2.103: Chemical Strategies toward Functionalized Graphene with High-Performance for Li-ion Batteries  
功能化石墨烯的化学法制备与在锂离子电池中的应用  
Ting Yu, Nanyang Technology University, Singapore  
Ting Yu, 南洋理工大学(新加坡)
- 14:45-15:10 THU2.104: Graphene-Enabled Nanowire Devices for Electrochemical Energy Storage  
石墨烯诱导的纳米线储能材料与器件  
Liqiang Mai, Wuhan University of Technology, China  
麦立强, 武汉理工大学(中国)
- 15:10-15:40 THU2.105: Ex-situ and in Situ Characterization of Li-ion Batteries Using Raman Imaging  
超快速拉曼成像技术用于锂离子电池的原位和非原位表征  
Le Su, Thermo Fisher Scientific, China  
苏乐, 赛默飞世尔(中国)科技有限公司(中国)
- 15:40-16:00 Coffee Break 茶歇
- 16:00-16:25 THU2.106: Graphene-Based Electrode Materials for High-Performance Batteries  
高性能电池用石墨烯基电极材料  
Zhaoping Liu, Ningbo Institute of Materials Technology & Engineering, Chinese Academy of Sciences, China  
刘兆平, 中国科学院宁波材料技术与工程研究所(中国)
- 16:25-16:50 THU2.107: Graphene/Inorganic Hybrid Two-Dimensional Materials for Advanced Energy Storage Devices  
石墨烯/无机杂化二维材料及其应用于先进能源存储器件  
Guihua Yu, University of Texas at Austin, USA  
Guihua Yu, 德克萨斯大学奥斯汀分校(美国)
- 16:50-17:15 THU2.108: Molecular Hybridization of Graphene and Transition Metal Hydroxide Nanosheets for Electrochemical Applications  
石墨烯和过渡金属氢氧化物纳米片复合材料的电化学应用  
Renzhi Ma, International Center for Materials Nanoarchitectonics (MANA) National Institute for Materials Science (NIMS), Japan  
马仁志, 日本国立物质材料研究所纳米结构材料国际研究中心(日本)
- 17:15-17:30 THU2.109: (Oral) Binder-Free Graphene-Based Anode for Li-ion Battery  
用于锂离子电池的无黏合剂石墨烯基负极  
Haiyan Sun, Istituto Italiano di Tecnologia (IIT), Italy  
Haiyan Sun, 意大利理工学院(意大利)
- 17:30-17:45 THU2.110: (Oral) Graphene Conductive Paste for Lithium-ion Batteries  
锂离子电池用石墨烯导电浆料  
Jiangbin Hong, Xiamen Knano Graphene Technology Corporation Limited, China  
洪江彬, 厦门凯纳石墨烯技术有限公司(中国)
- 17:45-18:00 THU2.111: (Oral) Industrial Production of Graphene Material and Applications in Li-ion Power Batteries  
石墨烯的工业化制备及其在动力锂电池中的应用  
Xin Chen, Shandong Yuhuang New Energy Technology Co., Ltd, China  
陈欣, 山东玉皇新能源科技有限公司(中国)



15:00 Meeting Room NO.7108 7108会议室

Symposium D02: Wuxi Investment Promotion Seminar  
分会场D02: 无锡招商说明会

Wuxi Graphene Industry Park will hold a conference to promote business at GRAPCHINA 2015. This conference warmly invites both domestic and foreign attendees to seek their opportunities in Wuxi, aiming to accelerate graphene industry development and enhance competitiveness, to couple between Hi-tech Industry and local traditional industry, and to upgrade industry cluster and value chain. Over the past few years, the local government has made great efforts in key graphene-based application projects and strengthened investment promotion.

本届大会特设无锡石墨烯示范区招商推介会,旨在推动无锡市石墨烯产业的快速发展,大力引进创新研发团队和产业应用项目,促进石墨烯相关技术、应用与当地传统企业对接,进行深度合作,提升产业竞争力。同时,依托无锡市产业结构特征,规划绿色、低能耗、高附加值的石墨烯特色产业应用方向,在全国范围内形成具有无锡特色的石墨烯产业基地。

- 15:00-15:30 Guest Registration 嘉宾签到
- 15:30-15:45 Opening Ceremony Speech 开幕致辞
- 15:45-16:40 Investment Environment Promotion 投资环境推介
- 16:40-17:10 Companies to Speech 企业发言
- 17:10-17:30 Interactive Communication 互动交流

13:00 Meeting Room NO.7110 7110会议室

Symposium D01: Qingdao Special Session  
分会场D01: 青岛专场

Qingdao Graphene Industry Zone will hold a conference to promote business at GRAPCHINA 2015. This conference warmly invites both domestic and foreign attendees to seek their opportunities in Qingdao, aiming to accelerate graphene industry development, to couple between Hi-tech Industry and local traditional industry, and to upgrade industry cluster and value chain. In recent years, the zone stepped up the innovation and upgrading of the marine characterized traditional industries such as marine anticorrosion, offshore engineering with green chemistry, low energy consumption, and high value-added graphene industry.

本届大会特设青岛专场,旨在推动青岛市石墨烯产业的快速发展,大力引进创新研发类团队、创业研发类企业和规模产业化项目,促进部分企业与当地传统规模企业之间已经形成深度合作,并根据青岛市产业结构特征,规划绿色、无污染、低能耗、高附加值的石墨烯产业链发展方向,形成具有国际影响力、突出海洋特色的青岛石墨烯产业基地。

Host: Mr.Zhiqiang Zhang, Head of Eco & New Material Department of Qingdao National High-tech Industrial Development Zone, China

主持人: 张志强, 青岛高新区管委节能技术与材料部部长

- 13:00-13:30 Display Qingdao Promo-Video 播放青岛宣传片
- 13:30-14:00 Speech Time 领导致辞
- 14:00-14:20 Promo-Introduction of Qingdao National High-Tech Industrial Development Zone 青岛高新区宣传推介
- 14:20-14:50 Agreement Signing Ceremony 集中签约仪式
- 14:50-15:30 New Product Release 新产品发布

14:00 Meeting Room NO. 7111A 7111A会议室

Symposium A03: Flexible Electronics

分会场A03: 石墨烯在柔性电子技术领域的应用

Session Co-chairs: Shisheng Lin, Zhejiang University, China; Pulickel Ajayan, Rice University, USA

分会中方主席: 林时胜, 浙江大学(中国); 外方主席: Pulickel Ajayan, 莱斯大学(美国)

- 14:00-14:25 THU2.901: 'From Graphene to Phosphorene': Flexible Adventures with 2D Materials "从石墨烯到磷烯": 二维材料的柔性特性  
Deji Akinwande, The University of Texas at Austin, USA  
Deji Akinwande, 德克萨斯大学奥斯汀分校(美国)
- 14:25-14:50 THU2.902: Coating Interfacially Assembled Functional Nanoparticles on Graphene Paper: A Modular Approach toward High-Performance Flexible Electrodes and Catalysts  
石墨烯纸上涂层界面组装功能化纳米粒子: 一种模块化高性能柔性电极或催化剂的制备方法  
Hongwei Duan, Nanyang Technological University, Singapore  
Hongwei Duan, 南洋理工大学(新加坡)
- 14:50-15:15 THU2.903: Graphene and 2D Materials for Future Electronics  
石墨烯和二维材料在未来电子器件中的应用  
Sung-Yool Choi, KAIST, Korea  
Sung-Yool Choi, 韩国科学技术院(韩国)
- 15:15-15:40 THU2.904: Flexible Graphene Field-Effect Transistor Memory  
柔性石墨烯场效应晶体管存储器  
Dan Xie, Tsinghua University, China  
谢丹, 清华大学(中国)
- 15:40-16:10 Coffee Break 茶歇
- 16:10-16:35 THU2.905: Graphene/Semiconductor Heterostructure Based High Performance Optoelectronic and Electronic Devices  
基于可柔性化的石墨烯/半导体异质结的电子与光电子器件  
Shisheng Lin, Zhejiang University, China  
林时胜, 浙江大学(中国)
- 16:35-17:00 THU2.906: Atomic-scale Control of Graphene Magnetism Using Hydrogen Atoms  
利用氢原子实现石墨烯磁性的原子尺度可控  
Juan Jose Palacios, Universidad Autónoma de Madrid, Spain  
Juan Jose Palacios, 马德里自治大学(西班牙)
- 17:00-17:15 THU2.907: (Oral) Performance of AgNWs Transparent Electrode Protected by Graphene Oxide Thin Film with A Rapid and Green Self-assembling Process  
快速、绿色自组合法制备氧化石墨烯薄膜包裹银纳米线透明电极  
Jinting Jiu, Osaka University, Japan  
Jinting Jiu, 日本大阪大学(日本)
- 17:15-17:40 Discussion 交流讨论