

Graphene in China

Xiaoyue Xiao

In the past years, the NNSF has launched more than 400 millions RMB to cultivate R&D projects of graphene in China. Today's graphene-based companies are closely related to the above mentioned R&D projects.

In July 13 of 2013, China Innovation Alliance of the Graphene Industry (CGIA) was established by a group of laboratories and companies, under the guidance of China Industry-University Research Institute Collaboration Association. It also receives a variety of supports from the Ministry of Science and Technology, Ministry of Industry and Information Technology, National Development and Reform Commission, and National Natural Science Foundation. Now it covers most of institutes and companies related to graphene. Since then, CGIA has accomplished several significant jobs:

1. The Intellectual Property Committee published a patent report in October, 2013 ¹.
2. The Standardization Committee published the first standard document in December, 2013 ².
3. The Expert Panel and Industrialization Committee supported the establishments of Wuxi Graphene Industry Park and Qingdao Graphene Industry Park in 2013.
4. The International Business Cooperation Committee has initiated the "2014 International Graphene Innovation Conference" in September, 2014 ³, and has proposed to establish "Global Graphene Alliance".

Meanwhile, some significant events have been accomplished:

1. Prof. Chao Gao reported the lightest materials - carbon sponge (density = 0.16 mg/cm³). ⁴



2. AWIT INC, a Chinese smartphone maker, sold out its first batch of 2000 units of graphene-smartphone AWIT AT26. ⁵
3. The Sixth Element (Changzhou) Materials Technology Co., Ltd announced that it has launched a production line of 100 tons of graphene oxide/graphene per year. ⁶
4. Ningbo Morsh Technology announced that it had opened the world's largest graphene production facility in Ningbo, making 300 tons of graphene per year. ⁷

Reference:

1. "Report on Patenting Activity of Graphene Technology", CGIA, October, 2013.
2. "Definitions and Terminology of Graphene Materials", Q/LMO1CGS001-2013, CGIA, December, 2013.
3. <http://c-gia.org/>
http://www.grapheneconf.com/2014/Scienceconferences_Graphene2014.php
4. Haiyan Sun, Zhen Xu, Chao Gao (2013), Multifunctional. Ultra-Flyweight, Syringistically Assembled Carbon Aerogels, *Advanced Materials*, Vol. 25, Issue 18, Page 2554-2560.
5. <http://www.awit.com.cn/mobile.html>
6. <http://www.jgri.gov.cn/content.aspx?id=438>
7. <http://www.morsh.cn/newsDetail.asp?id=240>

* Xiaoyue Xiao, Ph.D., Director, International Business Cooperation Committee
China Innovation Alliance of the Graphene Industry; (<http://c-gia.org/>)
Phone: 025-58280597; Fax: 025-58280594; E-mail: sxiao@syfsci.com