

2<sup>nd</sup> sino-european

# graphene

research cooperation meeting

IMDEA Nanociencia, Madrid (Spain)

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**Targeted participants:**

Chinese and European researchers from public scientific institutions and from companies with extensive experience and active in the field of graphene and interested in increased international cooperation

**Meeting's language:**

English

**Main Venue:**

IMDEA Nanoscience Institute  
c/ Faraday 9  
Campus de Cantoblanco  
28049 Madrid  
Te: +(34) 91 626 88 00



With the support of



## DAY 1 · Monday, May 12th

### 09:30 - 10:30 **Opening and Research Cooperation**

*D<sup>a</sup> Marina Villegas*  
 Directora General de Investigación,  
 Científica y Técnica  
 Ministerio de Economía y Competitividad  
 Opening

*Prof. Rodolfo Miranda*  
 IMDEA Nanoscience Director  
 Welcome and Meeting Objectives

*D. Xavier Eeckhout*  
 EU Euraxess Network  
 Sino European Cooperation and Research  
 Mobility

*D. Bonifacio Vega*  
 IMDEA Nanoscience  
 SCOPUS Graphene research world map

### 10:30 - 11:00 **Coffee and Tea Break**

### 11.00 - 13.30 **Scientific Session 1: Graphene Fundamentals**

*Prof. Zhongfan Liu*  
 Peking University, P. R. China  
 Controlled CVD Growth of Graphene and  
 its 2D Hybrids for Electronic Applications

*Prof. Ernst Meyer*  
 University of Basel, Switzerland  
 Nanomechanical investigations of  
 graphene by force microscopy

*Prof. Francisco Guinea*  
 CSIC, Spain  
 Advances in theory of graphene and other  
 2D materials

*Prof. Jin Zhang*  
 Peking University, P. R. China  
 Graphene: A Platform for Surface  
 Enhanced Raman Spectroscopy

*Prof. Rodolfo Miranda*  
 IMDEA Nanoscience and UAM, Spain  
 Introducing a giant spin orbit coupling to  
 graphene

### 13:30 - 14:30 **Lunch**

### 14:30 - 16:30 **Scientific Session 2: Graphene Applications**

*Prof. Yi Huang*  
 Nankai University, P. R. China  
 Application of graphene in intelligent  
 polymer materials

*Prof. Francesco Bonaccorso*  
 Italian Institute of Technology, Italy  
 Graphene and 2d crystal inks for energy  
 conversion and storage devices

*Prof. Zheng Hu*  
 Nanjing University, P. R. China  
 Graphene nanocages for energy conversion  
 and storage: synthesis, performance and  
 mechanism

*Dr. Fernando Jesús Castaño*  
 Abengoa Research S.A., Spain  
 Graphene industrial applications

*Prof. Lun Dai*  
 Peking University, P. R. China  
 Graphene Based Nano-Optoelectronic  
 Devices

### 16:30 - 16:45 **Coffee and Tea Break**

### 16:45 - 18:00 **Scientific Session 3: Graphene Properties**

*Dr. Annalisa Fasolino*  
 Radboud University Nijmegen  
 Structural properties of graphene, theory  
 and atomistic simulations

*Prof. Wanlin Guo*  
 Nanjing Univ. of Aeronautics and  
 Astronautics, P. R. China  
 Waving and Drawing Potentials in  
 Graphene

*Dr. Johannes Guettinger*  
 ICFO, Spain  
 Mechanical resonators made from  
 graphene

*Dr. Dongkeun Ki*  
 University of Geneva, Switzerland  
 Observation of fractional quantum Hall  
 effect in suspended bilayer graphene

### 21:00 - 22:30 **Dinner in downtown Madrid**

## DAY 2 · Tuesday, May 13th

### 09.30 - 11:15 **Scientific Session 4: Graphene growth**

*Dr. Wencai Ren*

*CAS, P. R. China*

Synthesis of large-size high-quality single-crystal graphene by chemical vapor deposition

*Dr. Robert Weatherup*

*Cambridge University, UK*

In Situ Understanding and Control of Catalytic Graphene Growth

*Prof. Lei Fu*

*Wuhan University, P. R. China*

Controllable Synthesis of Graphene Films on Various Surfaces

*Dr. Rafael Ferrito*

*Nanoinnova*

Graphene production

*Dr. Yeliang Wang*

*CAS, P. R. China*

Constructing Honeycomb Structures on Solid Surfaces: Graphene and Graphene-like Materials

### 11:15 - 11:30 **Coffee and Tea Break**

### 11.30 - 12:30 **Scientific Session 4: Graphene chemistry**

*Dr. Regis Gengler*

*University of Groningen, Netherland*

Chemically prepared exfoliated graphene, applied and fundamental perspectives

*Prof. Rosa Menendez*

*INC-CISC, Spain*

Tailoring graphenes by the chemical route

*Prof. Nazario Martin*

*IMDEA Nanoscience and UCM, Spain*

Towards electroactive graphene by chemical modification

### 13:00 - 13:30 **Conclusions and Closing remarks by Prof. Liu and Prof. Miranda**

### 13:30 - 14:30 **Lunch**

### 14:30 - 16:00 **Lab Tour**

### 16:00 - 17:00 **Discussion on Potential Cooperation**

### **Organization contact points:**

contacto.nanociencia@imdea.org

Detailed programme including name of talks will be communicated to all participants in due time