

NEWS OF THE MONTH

Newly published massive article to give an overview of graphene and other 2D materials

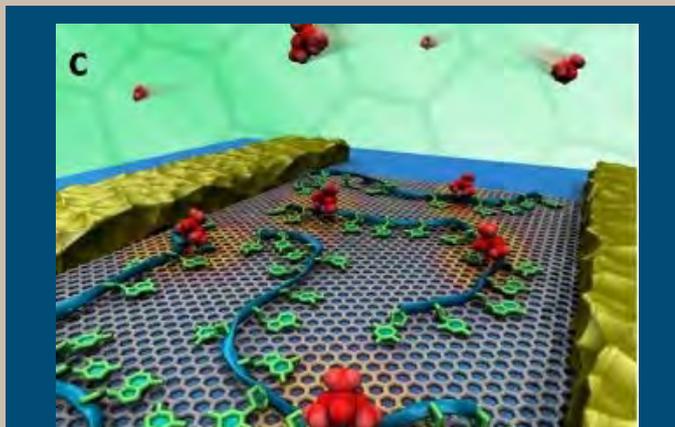


Fig. from chapter 8. Decoration with DNA molecules of a graphene field effect device can affect the chemoresistive response according to the specific DNA sequence.

The European [graphene flagship project](#) is one of the largest research grants given on the European research scene, with more than 120 research groups and a total budget of 1,000 Million Euro over 10 years. The project is covering many different areas of graphene and 2D material research from fundamental science to applications, from chemistry and physics to biology and environmental research. To give the public and the scientific community a chance to learn more about the ambitions and contents of this monstrous and many headed project, Andrea Ferrari and Francesco Bonaccorso from Manchester University have taken up the tremendous and very complicating task of coordinating the writing of the review paper *Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems*. The article seeks to give a comprehensive overview of the research field and more specifically describe what routes the flagship will be sailing - a manifest of the next decade(s) of graphene research on the European scene. Prof. Peter Bøggild of CNG has contributed to chapter 8 on sensors, which is one of the smaller chapters in the more than 200 pages and 2334 references extensive article.

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EVENTS

2-day seminar at Sonnerupgaard Gods

On November 12-13 the annual CNG 2-day seminar will take place at [Sonnerupgaard Gods](#). It is a unique opportunity to share your own research as well as get updated on your colleagues' latest work. Philip Hofmann from AU will be this year's evening speaker.

CNG Café

On October 31 the fifth CNG Café will be held in the Nanotech Lunchroom.

Lisa K. Tschammer, DTU Nanotech and Filip A. Rasmussen, DTU Physics will be presenting.

Feel free to sign up at the CNG Café [YAMMER GROUP](#) where you can discuss research presented at the CNG Café and also find the presentations given at the Cafés.

OTHER



Guest prof. Samvel Badalyan

Professor Samvel Badalyan is currently working at University of Antwerpen, Physics Department. He will be arriving at CNG on November 1 and will be working here for the following 6 months.

UPCOMING LECTURES - By CNG faculty

Prof. Peter Bøggild, keynote speaker at Manipulation, Manufacturing and Measurement on the Nanoscale, Taiwan, 27-30 October 2014

Ass. Prof. Mads Brandbyge gives an invited talk at Electron Dynamics on Surfaces and Nanostructures, Spain, 5-7 November 2014

Prof. Kristian Thygesen gives an invited talk at Sao Paulo, For more invited talks and links for the meetings go [here](#)

NEW PUBLICATION

"Atomically confined one-dimensional plasmons on the edge of a MoS₂ nanoribbon"

Kirsten Andersen, Karsten W. Jacobsen, and Kristian S. Thygesen

Phys. Rev. B, Rapid Communication

You can soon find the mentioned article at the [CNG website](#) where you can also find all recent publications and preprint by CNG Staff

Read more at WWW.CNG.DTU.DK