

INM COLLOQUIUM

“ELECTROCHEMICAL PROPERTIES OF 2D MATERIALS: FROM FUNDAMENTALS TO APPLICATIONS”

Prof. Dr. Robert Dryfe
The University of Manchester, GBR

Friday, May 24, 2019, 11:00 am

INM, Leibniz-Saal, Campus D2 5
Host: Prof. Dr. Volker Presser

The advent of 2D materials, combined with the enormous current interest in energy storage, has led to an explosion of research in the electrochemical applications of 2D materials. We have long-standing interests in both the fundamental^{1,2} and applied^{3,4} aspects of the electrochemistry of 2D materials. I will present some of our most recent work in this area, including novel approaches to prepare materials such as MoS₂, electrochemical and wetting properties of graphene, and applications of these materials as novel battery electrodes, as supercapacitors, and in water treatment.

References:

1. M. Velický et al, Nano Lett., 16, (2016), 2023
2. M. Velický et al, ACS Nano, 8, (2014), 10089
3. M.A. Bissett et al, ACS Appl. Mater. Int, 7, (2015), 17388
4. A. Ejigu et al, J. Mater. Chem. A, 5, (2017), 11316

Check CV [here](#).

You are invited to have coffee with the speaker 15 minutes before the talk starts.

KONTAKT

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