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Large scale production of 2D Materials for Energy applications

I will discuss the latest development towards the industrial-scale, reliable, inexpensive production processes² for the implementation of 2D materials in energy applications.

I will show how the production of 2D materials by solution processing^{2,6} represents a simple and cost-effective path towards the development of 2D materials-based energy devices, presenting huge integration flexibility compared to other production methods. I will first present our strategy to produce 2D materials on large scale by wet-jet milling⁷ of their bulk counterpart and then an overview of their applications for energy devices.
3,8,9,10,11,12,13,14

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