Synthesis of high surface area graphene hydrogel by using diamine

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Graphene hydrogel (GH), the three dimensional structure of graphene has been fabricated through the reaction between the layers of the reduced graphene oxides (RGOs) and ethylene diamine(ED). By the control of RGO concentration in water and reaction temperature, we can get the surface area of GH as high as 745 m^2/g, which also showed high specific capacitance when used as electrodes for supercapacitor.