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Enhanced electrical, mechanical and thermal properties by exfoliating graphene platelets of larger lateral dimensions

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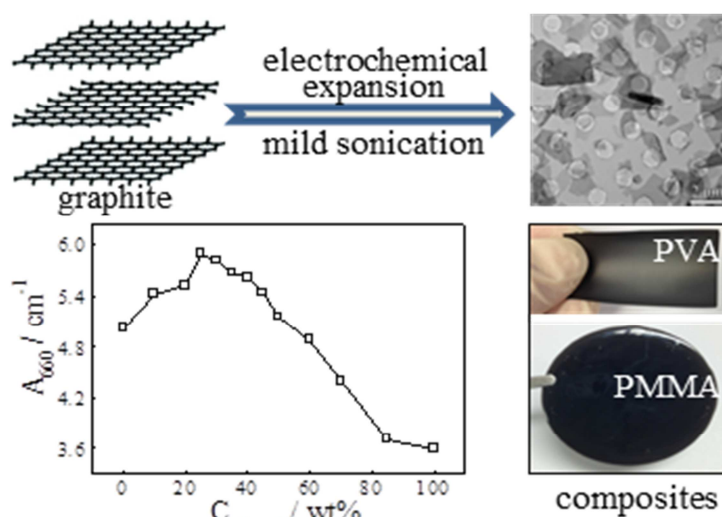
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## Enhanced Electrical, Mechanical and Thermal Properties by Exfoliating Graphene Platelets of Larger Lateral Dimensions

A way to highly effectively produce graphene sheets with large lateral dimension in aqueous solution is demonstrated by combining electrochemical and ultrasonic methods. Electrical and mechanical properties of graphene film materials fabricated with these graphene sheets are largely improved. As well, polymer-graphene composites can be prepared conveniently both for water soluble polymers and for organic soluble polymers.



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