Preparation of nano carbon composites for improving electrochemical properties.

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Carbon based electrode is good using in electrochemical energy storage systems. Especially, graphene electrode in vanadium redox flow batteries (VRFBs) have attracted increasing interest, because electrode has a key role to play in VRFBs by providing sites for the electrochemical reactions in VRFBs. But if graphenes are aggregated with each other, electrochemical property of electrode is poor. For solve the problem, graphene oxide was functionalized with silan coupling agent. Modified graphene oxide(MGO)/polyacrylonitrile(PAN) was mixed in solvent and the composites are made by electrospinning. This composites were investigated in physical and electrochemical aspects.