Binder-free Reduced Graphene Oxide/Carbon Black composite supercapacitor electrode fabricated by direct electrophoretic deposition

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The synthesis route of the graphene interlayered composite has been a hotspot of fabricating supercapacitor electrode, since the enlarged high specific surface area of graphene can enhance the capacitance of graphene composite electrode. Electrophoretic deposition has been reported to be applied in the fabrication of graphene composite materials. As the supercapacitor electrode, binder-free reduced graphene oxide/carbon black (RGO/CB) composite film has been prepared by direct electrophoretic deposition (EPD) method, which promotes the capacitance of graphene in organic electrolyte.