Directly Drawing Self-Assembled, Porous and Monolithic Graphene Fiber from CVD-Grown Graphene Film and Its Electrochemical Properties

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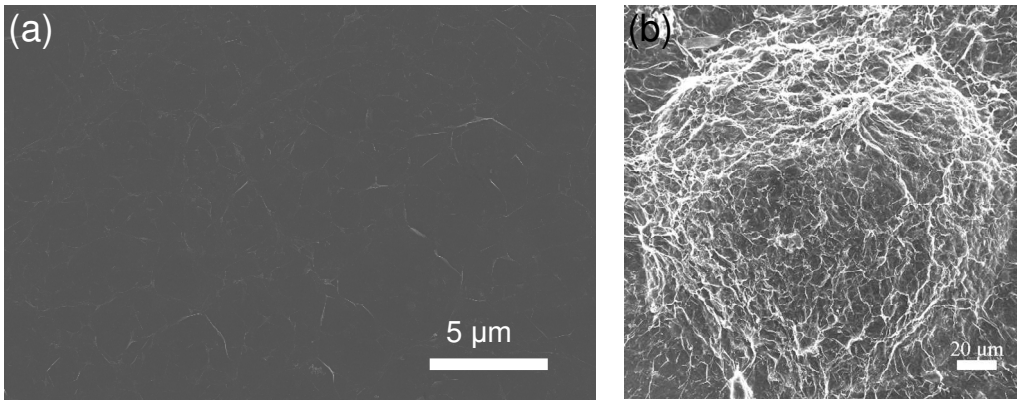
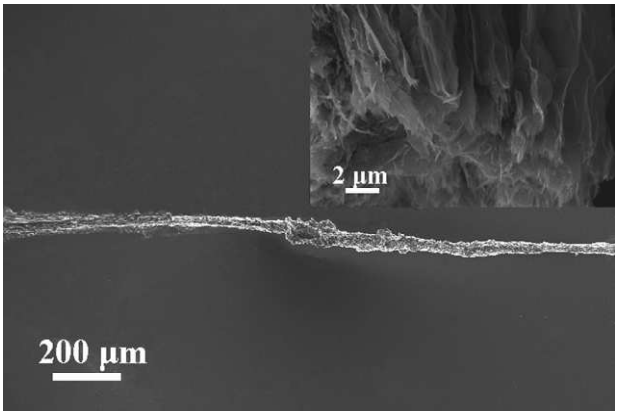
Supporting Information:

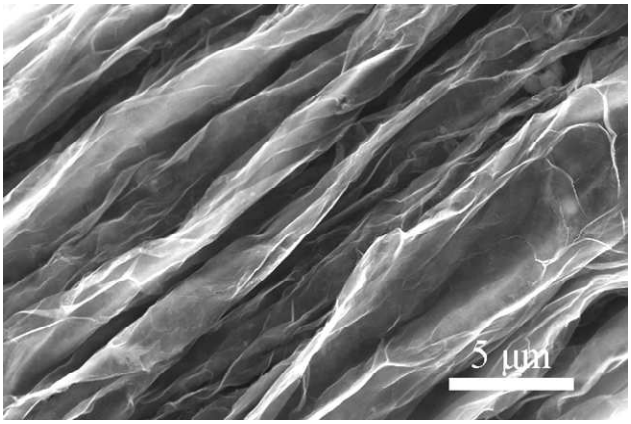
1. **Figure S1. SEM images of (a) the graphene film deposited on a silicon wafer and (b) the porous graphene sphere.**
2. **Figure S2. SEM image of joint graphene fibers. The inset shows the fracture surface.**
3. **Figure S3. SEM image of the graphene fiber obtained from diluted ethanol solution, showing no porous structure.**
4. **Figure S4. SEM images of G/MnO_2 composites obtained at different $KMnO_4$ concentrations and heating times. (a) 3 min. (b) 6 min. (c) 9 min.**
5. **Table S1. XPS curve-fitting result of pristine, ethanol-treated graphene films.**



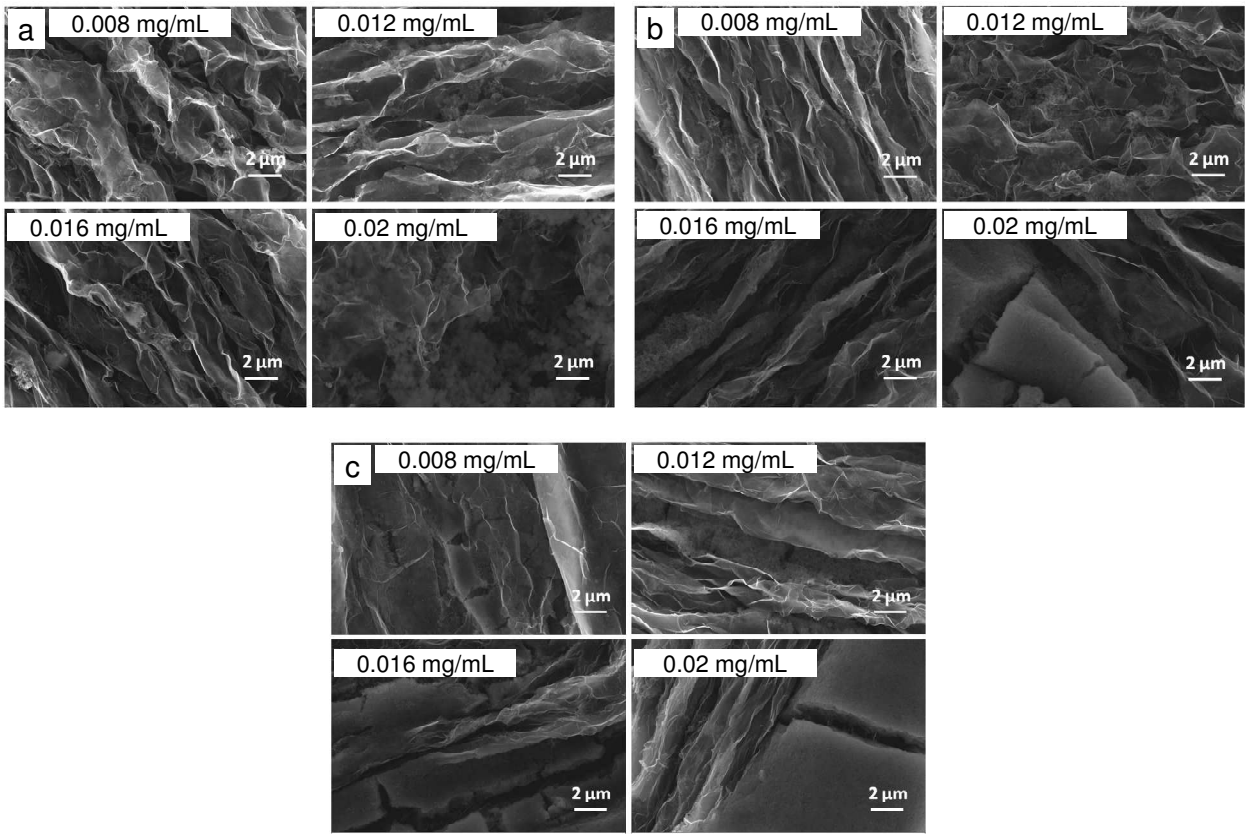
(Figure S1)



(Figure S2)



(Figure S3)



(Figure S4)

Table S1

	Pristine graphene film		Ethanol-treated graphene film	
	Binding energy (eV)	Area (%)	Binding energy (eV)	Area (%)
C-C(sp^2)	283.4	53.0	283.5	43.6
C-C(sp^3)	284.1	31.5	284.1	29.4
–OH	286.9	15.5	287.2	27.0