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Electronic Supplementary Information

Flexible and conductive graphene-based fiber fabricated from pigment and TiO2 dual

coatings as colored insulative shell structure

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Fig. S1 Microscope images of fibers: (a) GO fibers; (b) rGO fibers; (c) white rGO fibers and

(d) red rGO fibers



Fig. S2 The resistance stability of red rGO fibers upon (a) bending angles and (b) bending

cycles, and the morphology change before (c) and after (d) cyclic bending.



Fig. S3 The rGO fibers: (a) bare rGO fiber; (b) red rGO fiber



Fig. S4 CIE 1931 chromaticity diagram of red rGO fibers immersed in (a) acid solution and (b)

alkali solution



Fig. S5 The visible reflectivity and surface morphology of red rGO fibers after immersing

severally acid solution (a and c) and alkali solution (b and d)

Video Captions

Video S1 Effects of water immersion on the conducting stability of the graphene-based fibers with an

insulative red shell

Video S2 Effects of water immersion on the conducting stability of the bare graphene-based fibers