Supporting Information For

Highly Flexible, Nonflammable and Free-Standing SiC Nanowire Paper

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Fig. S1 (a) Digital photograph of the as-prepared product synthesized in the sealed corundum crucible.(b) Cloud-like ultra long SiC nanowires grown on the corundum plate.



Fig. S2 The transparent SiC nanowire membrane/paper obtained on the corundum plate.



Fig. S3. FESEM images of SiC nanowire membrane/paper in different magnifications:(a) overall view of the SiC nanowire paper; (b) the cross-section image of the paper;(c) SEM image of SiC nanowires; (d) higher magnification SEM image of SiC nanowires.



Fig. S4. HRTEM image of SiC nanowire.



Fig. S5. XRD patterns of the as-prepared SiC nanowire paper and the paper after heating in an electric oven at 1000 $^{\circ}$ C for 3 h.