**Supporting Information**

Photoelectrochemical response of Fe2O3 films reinforced with BiFeO3 nanofibers

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**Figure S1.** Dependence of the PEC performance of Fe2O3 films with (a) the solution concentration and (b) the annealing temperature.

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**Figure S2.** Thermogravimetry curve in air of the as-spun PVP/Bi-Fe precursor fibers.



**Figure S3.** XRD analysis of BFO nanofibers film deposited on FTO before (black line) and after (orange line) calcination at 700 ºC for 4h.