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Supplementary Information:

Fig.S1 SEM images of samples (pH 7.0) annealed at (a) 400, (b) 500, (c) 550, and (d) 600°C for 12 h Fig.S2 UV-Vis absorbance spectra of thick CaBi₆O₁₀NPs films with different thickness obtained at 600 °C for 12 h Fig.S3 Electrochemical impedance spectroscopy of as-prepared thick CaBi₆O₁₀ NPs for

5 cycles, 10 cycles, 15 cycles, and 20 cycles at 600 °C for 12 h



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Fig.S2 UV-Vis absorbance spectra of thick $CaBi_6O_{10}$ NPs films with different thickness obtained at 600 °C for 12 h



Fig.S3 Electrochemical impedance spectroscopy of as-prepared thick $CaBi_6O_{10}$ NPs for 5 cycles, 10 cycles, 15 cycles, and 20 cycles at 600 °C for 12 h