

Figure S1. (a) Effect of PMS on PFOA degradation in the absence of ZnO under UV and visible light irradiation. (b) Different vessels used for evaluation of the photocatalytic/photoelectrocatalytic degradation of PFOA (i: ZnO films, ii: suspended ZnO nanoparticles, iii: PMS (in the absence of ZnO)).



Figure S2. Effect of the irradiation time on the photocatalytic PFOA degradation over the ZnO electrode with the addition of PMS (\sim 0.27 g L⁻¹) under UV irradiation.



Figure S3. (a) Effects of the scavengers on PFOA (53 mg L⁻¹) photocatalytic degradation under UV irradiation using suspended ZnO nanoparticles (0.53 g L⁻¹). (b) Evolution of intermediates during the photocatalysis of PFOA (53 mg L⁻¹) under UV irradiation using suspended ZnO nanoparticles (0.53 g L⁻¹) with the addition of PMS (0.53 g L⁻¹).



Figure S4. Photocatalytic degradation of PFOA (~53 mg L^{-1}) using suspended In₂O₃ nanoparticles (~0.53 g L^{-1}) under UV irradiation.