

Synthesis and photocatalytic activity of iodine-doped ZnO nanoflowers

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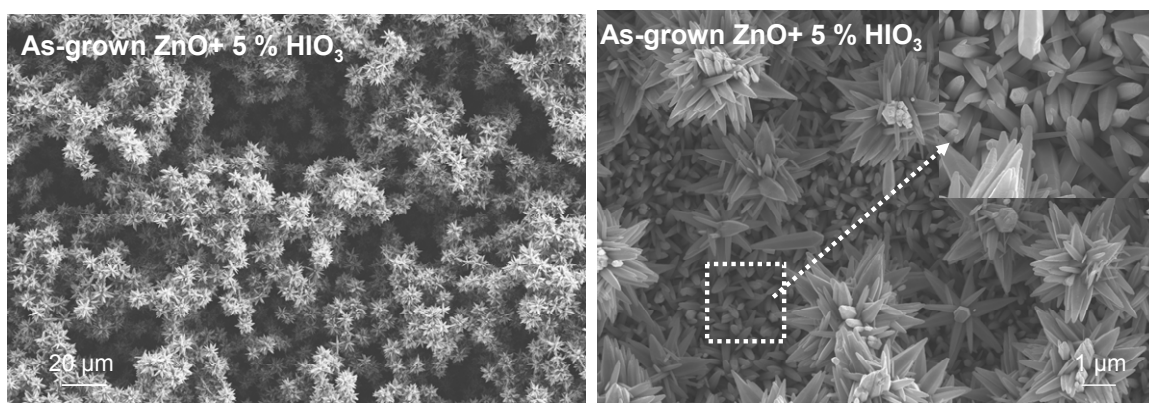


Figure S1: SEM image of iodine-doped ZnO nanostructures using 5 vol.% of HIO₃.

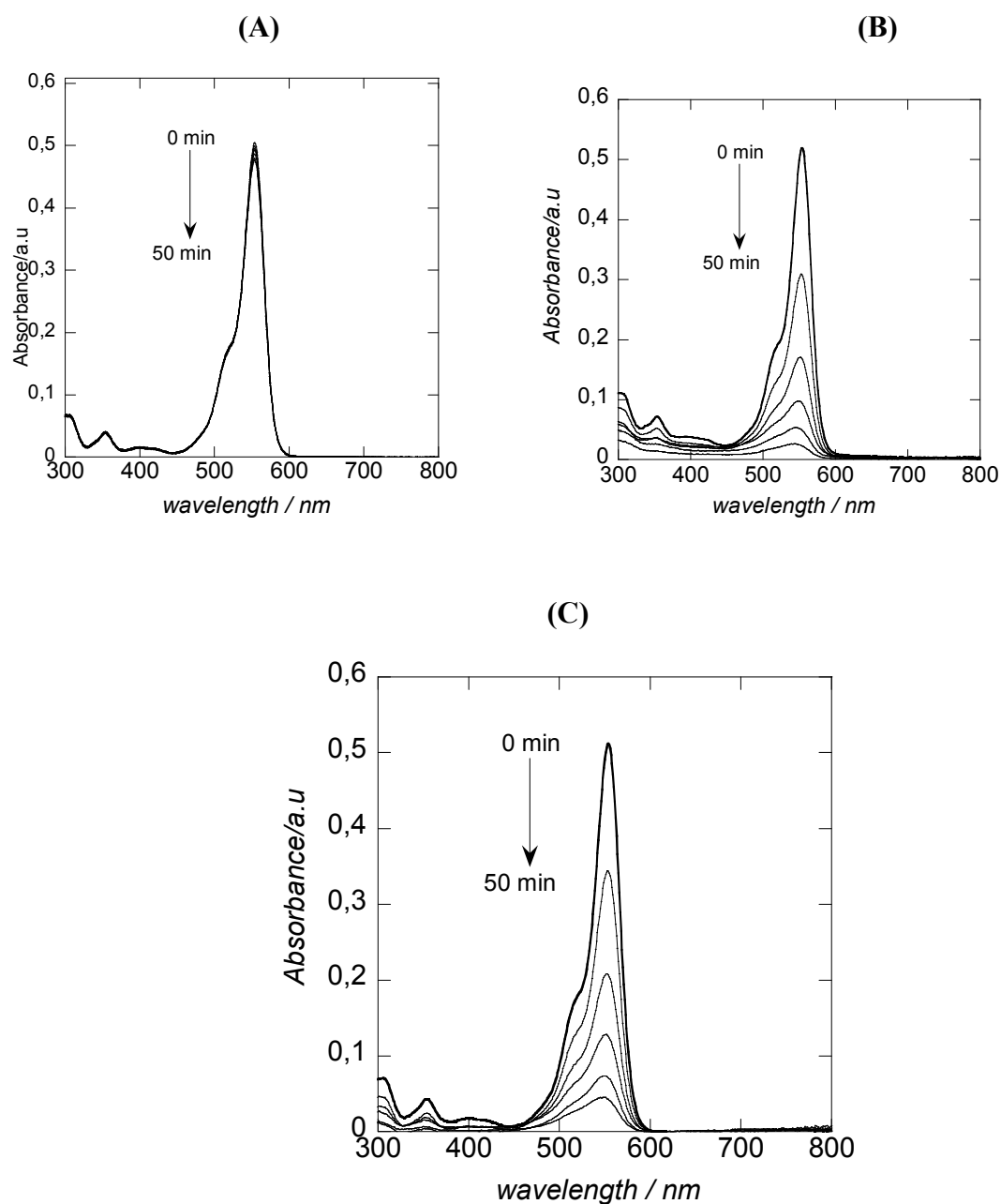


Figure S2. Change of the UV/vis absorption spectra of rhodamine B as a function of irradiation time at $\lambda = 365$ nm: (A) rhodamine B only, (B) in the presence of undoped ZnO, (C) in the presence of iodine-doped ZnO (20 vol.% HIO₃). The initial concentration of rhodamine B is 5 μ M, lamp power = 1 W.

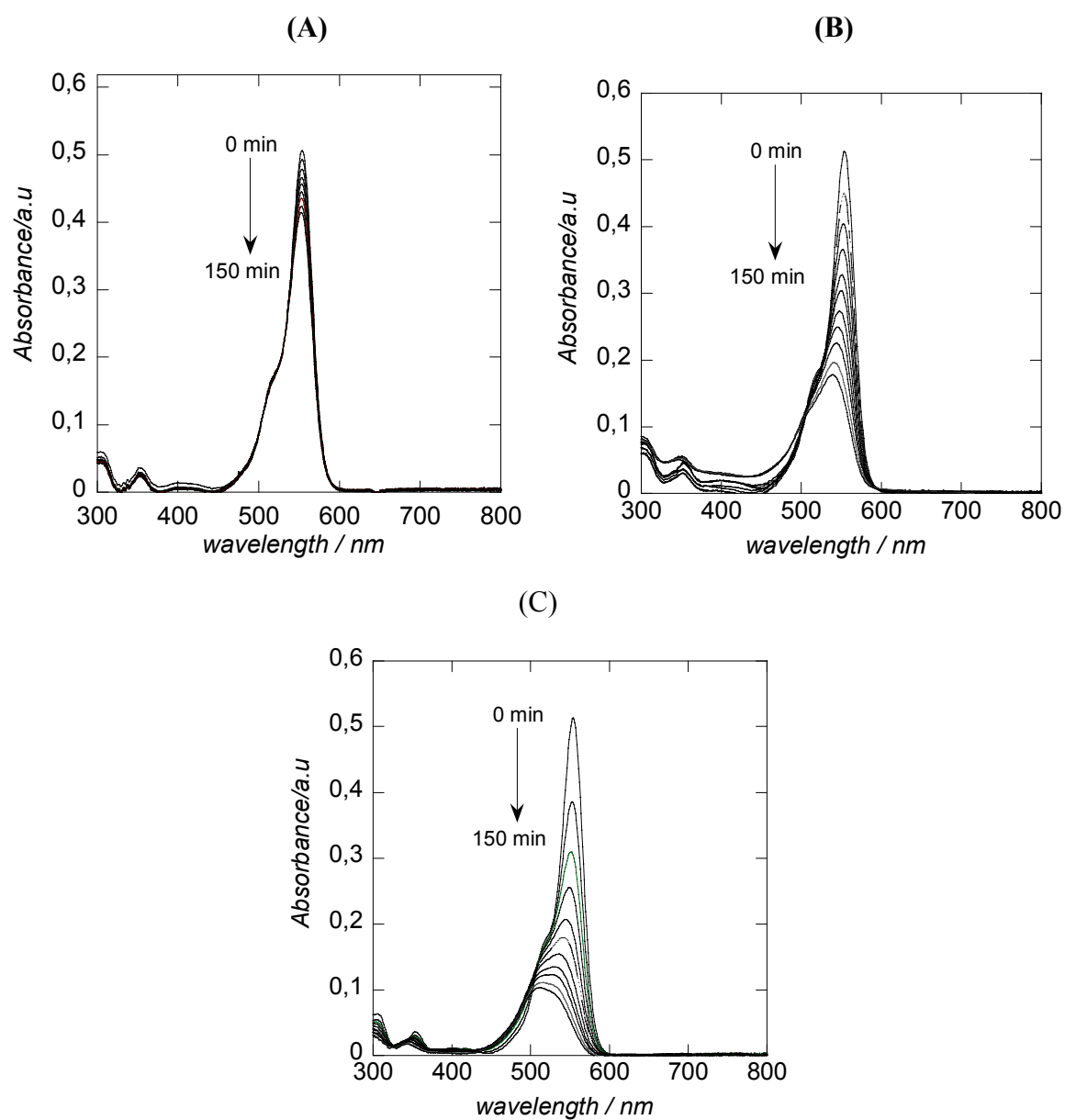


Figure S3. Change of the UV/vis absorption spectra of rhodamine B as a function of irradiation time at $\lambda > 420$ nm: (A) rhodamine B only, (B) in the presence of undoped ZnO, (C) in the presence of iodine-doped ZnO (20 vol.% HIO₃). The initial concentration of rhodamine is 5 μ M, lamp power = 1 W.