

*Supporting Information*

# Microwave-Assisted Synthesis of Zn<sub>2</sub>SnO<sub>4</sub> Nanostructures for Photodegradation of Rhodamine B under UV and Sunlight

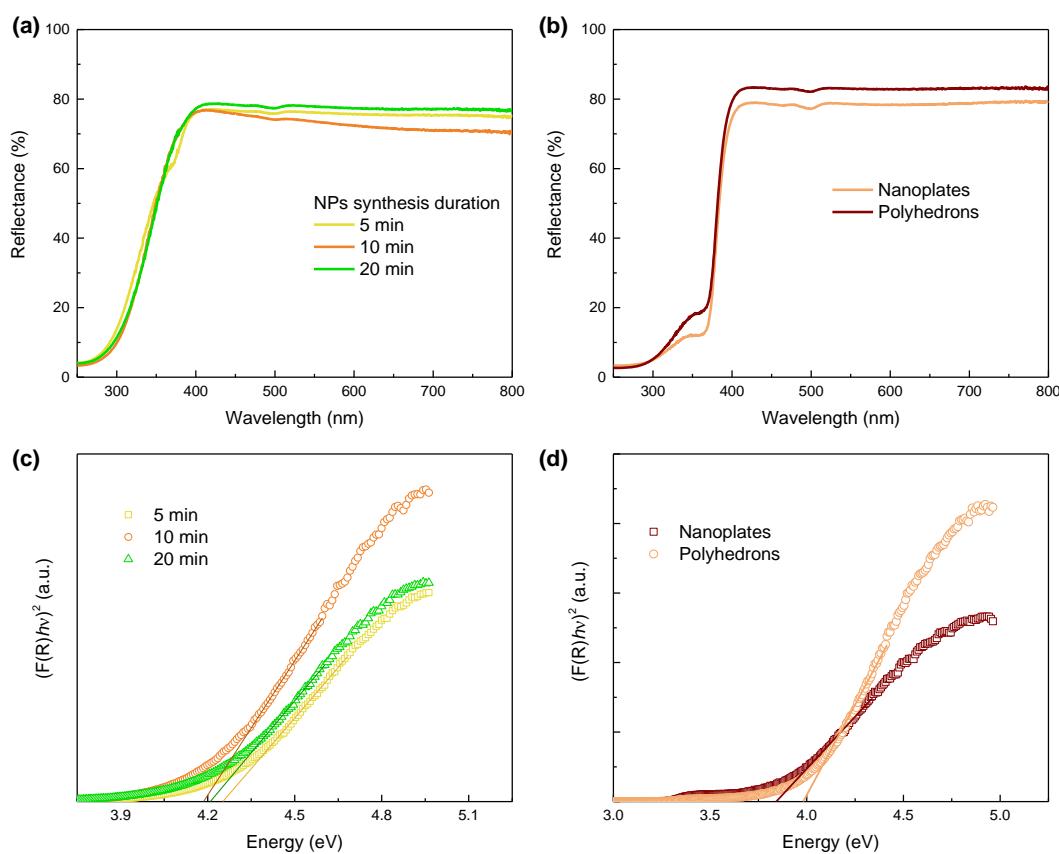
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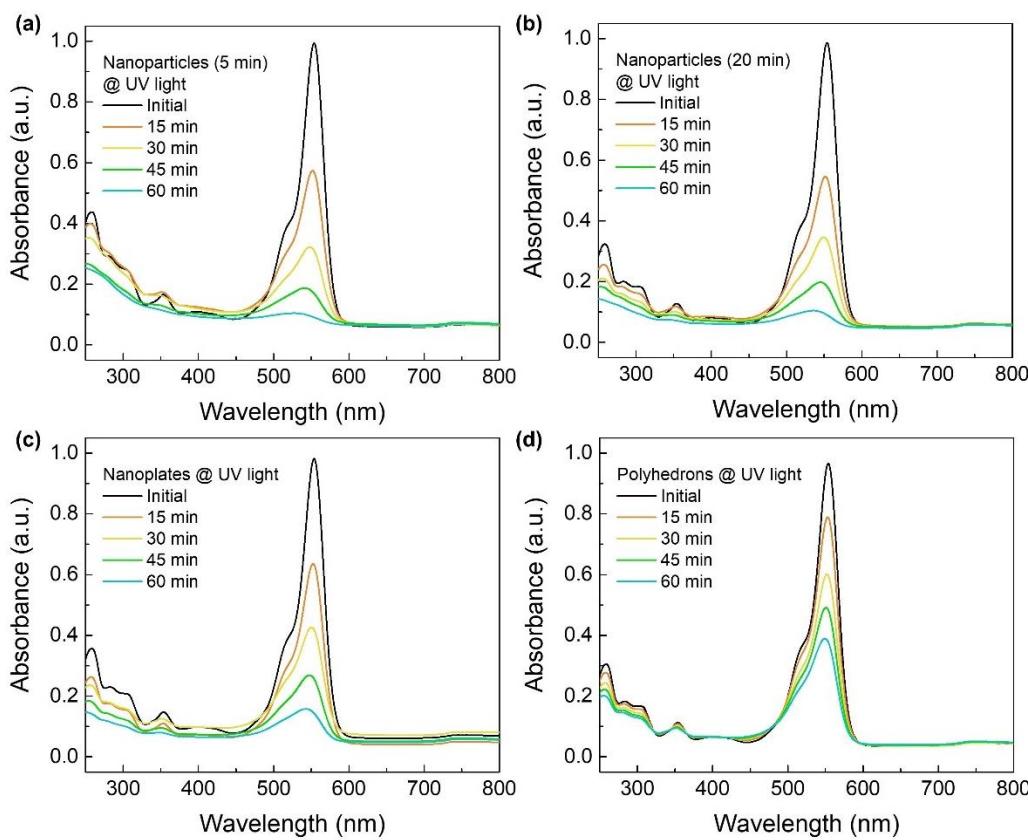
md.morais@campus.fct.unl.pt (M.M.); ritasba@fct.unl.pt (R.B.); emf@fct.unl.pt (E.F.); rfpmp@fct.unl.pt (R.M.)

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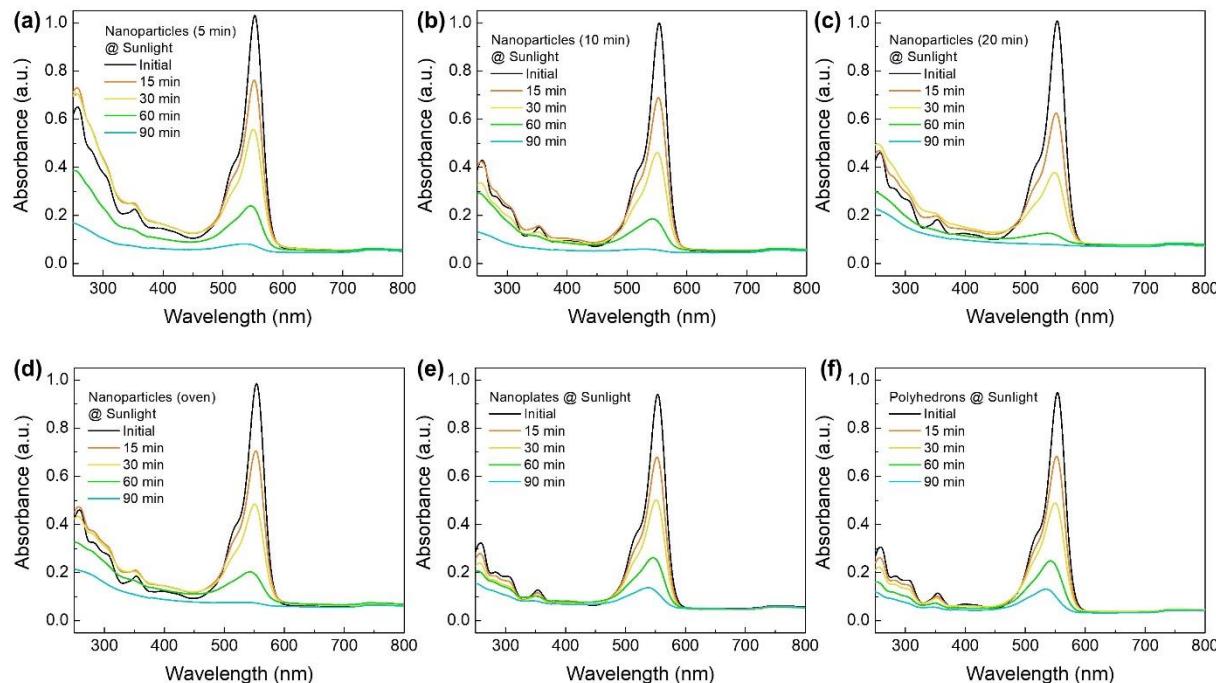
<sup>†</sup> These authors contributed equally to this work.



**Figure S1.** (a and b) Diffuse reflectance spectra and (c and d) Kulbelka-Munk function of Zn<sub>2</sub>SnO<sub>4</sub> nanoparticles, and nanoplates and polyhedrons, respectively. The lines in (c) and (d) represent the linear fittings applied for the determination of the optical band gap values.



**Figure S2.** Absorbance spectra of the RhB degradation under UV light irradiation in the presence of  $\text{Zn}_2\text{SnO}_4$  (a) nanoparticles (5 min synthesis time), (b) nanoparticles (20 min synthesis time), (c) nanoplates, and (d) polyhedrons.



**Figure S3.** Absorbance spectra of the RhB degradation under natural sunlight irradiation in the presence of  $\text{Zn}_2\text{SnO}_4$  (a) nanoparticles (5 min synthesis time), (b) nanoparticles (10 min synthesis time), (c) nanoparticles (20 min synthesis time), (d) nanoparticles (conventional oven), (e) nanoplates, and (f) polyhedrons.