Supplementary materials for

## Pyrolytic Formation of TiO<sub>2</sub>/carbon Nanocomposite from Kraft Lignin. Characterization and photoactivities

## Dhanalakshmi Vadivel<sup>a,b\*</sup>, Diego Savio Branciforti<sup>b</sup>, Andrea Speltini<sup>c</sup>, Michela Sturini<sup>c</sup>, Vittorio Bellani<sup>d</sup>, Ilanchelian Malaichamy<sup>a\*</sup> and Daniele Dondi<sup>b</sup>

<sup>a</sup> Department of Chemistry, Bharathiar University, Coimbatore - 641046. India

<sup>b</sup> Department of Chemistry, University of Pavia, via Taramelli 12, 27100 Pavia, Italy

<sup>c</sup> Department of DrugSciences, University of Pavia, via Taramelli 12, 27100 Pavia, Italy

<sup>d</sup>Department of Physics, University of Pavia, via Taramelli 12, 27100 Pavia, Italy



## Time dependent decay of MB and RhB dyes by TiO2 and p-C/TiO2

Fig. S1. Time dependent decay of MB and RhB dyes with the presence of catalyst TiO<sub>2</sub>, p-  $C/TiO_2$ 

Solar box emission spectra



Fig. S2. Emission spectra of solar simulator light

UV immersion lamp medium pressure



Fig. S3. Emission spectra of UV immersion lamp medium pressure

https://www.vapourtec.com/products/flow-reactors/photochemistry-uv-150-photochemical-light-

sources/