Supporting Information

Multilayer Self-Assembly of TiO_2 Nanoparticles and Polyaniline-*Grafted*-Chitosan Copolymer (CPANI) for Photocatalysis

Debajyoti Mahanta, Uttam Manna, Giridhar Madras and Satish Patil*

Solid State and Structural Chemistry Unit

Indian Institute of Science, Bangalore, India, 560012

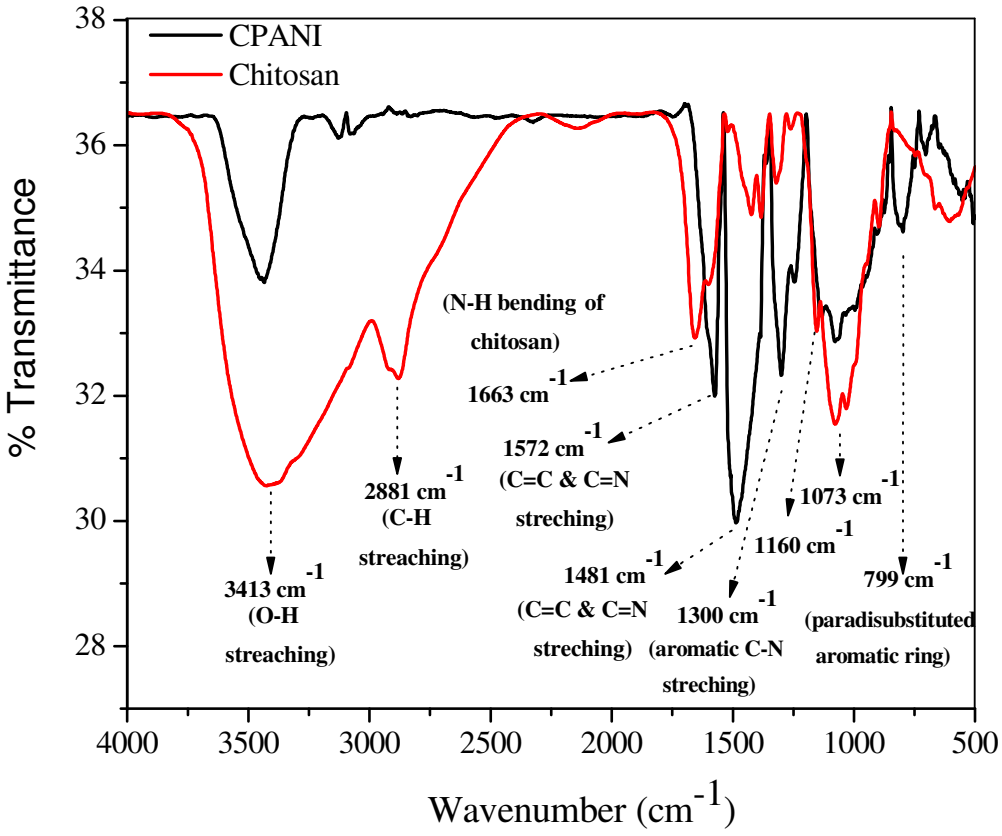

Figure S1: FTIR spectra of chitosan and Polyaniline-*Grafted*-Chitosan Copolymer (**CPANI**).

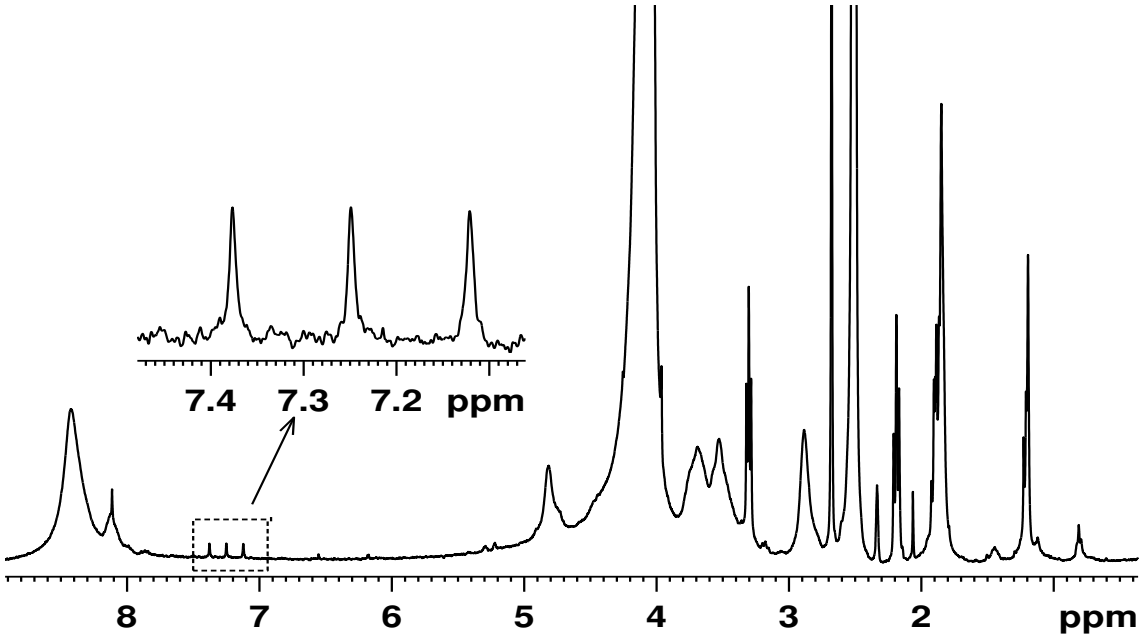

Figure S2: ^{1}H-NMR spectra of Polyaniline-*Grafted*-Chitosan Copolymer (**CPANI**)

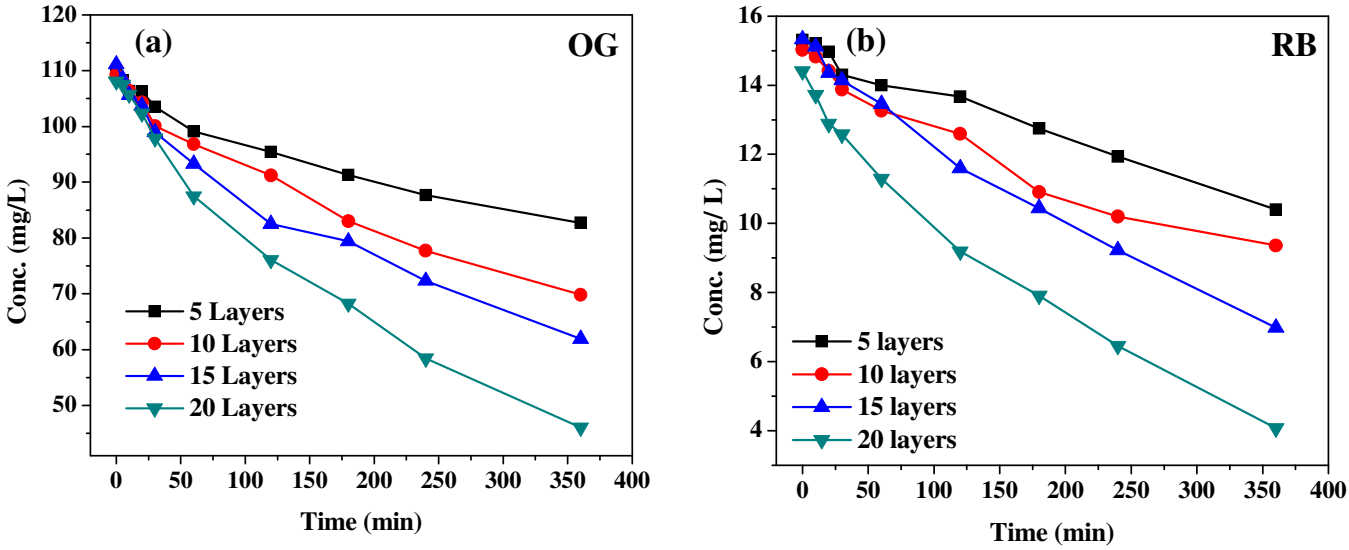

Figure S3: (a) and (b) Degradation profile of Orange G and Rhodamine B with an initial concentration 110 and 15 mg/ L respectively. Each experiment was with four catalytic slides having different number of TiO_2 nanoparticles layers.

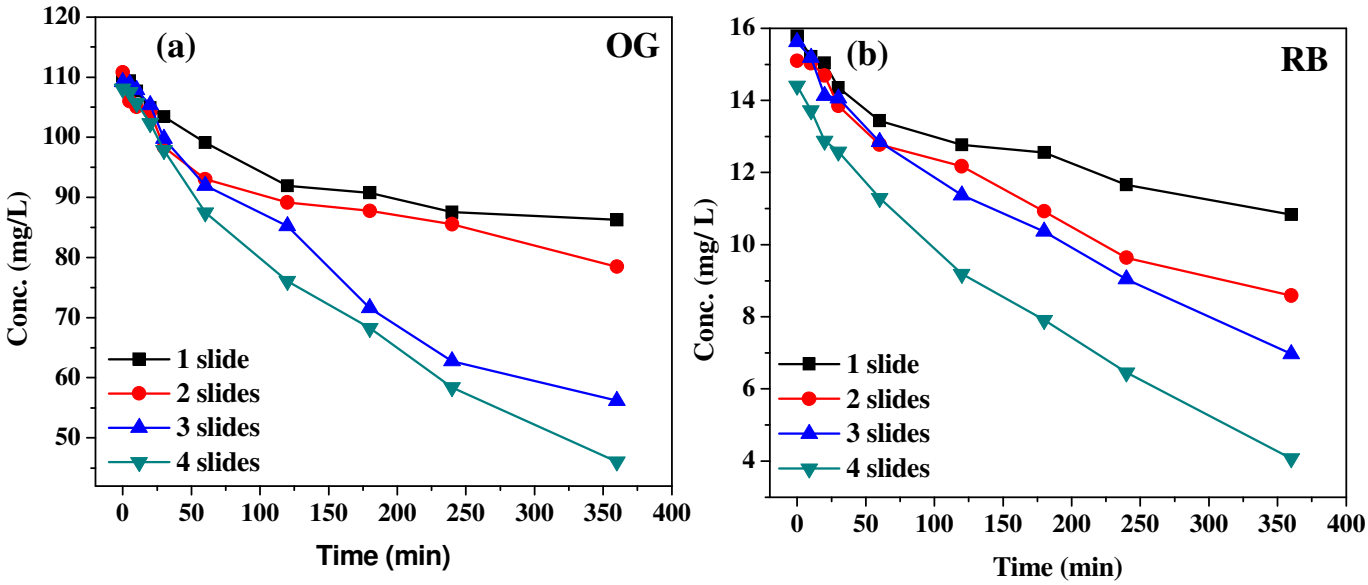

Figure S4: Degradation profiles of (a) Orange G and (b) Rhodamine B dye molecules with different number of catalytic slides of **CPANI/PSS/**TiO_2 nanoparticles. For each experiment, 50 ml of initial concentration of 110 mg/ L and 15 mg/L of **OG** and **RB** were used in all experiments.