Supplementary material to:

V. Moodley, S. Maddila, S.B. Jonnalagadda and W.E. van Zyl

Degradation of *o*-chloranil using nanocrystalline-cellulose/TiO_2 composites *via* a solar photocatalytic route

S. Afr. J. Chem., 2021, **75**, 91–97

SUPPLEMENTARY MATERIAL

Degradation of *o*-chloranil using nanocrystalline-cellulose/TiO_2 composites *via* a Solar Photocatalytic Route

Vashen Moodley, Suresh Maddila, Sreekantha B. Jonnalagadda and Werner E. Van Zyl*

School of Chemistry and Physics, University of KwaZulu-Natal, Westville campus, Chiltern Hills, Durban, 4000, South Africa.

Contents **Page number**

Figure S1. N_2 adsorption-desorption isotherm plots of synthesized catalysts with pore volume density (insets) **2**

Figure S2. Particle size distribution graphs of 10% (a), 20% (b), 40% (c) and 80% (d) NCC/TiO_2 catalysts **3**

Figure S3. UV-DRS of bare TiO_2 and synthesized (% w/w) NCC doped TiO_2 catalysts **3**

Figure S4. Degradation products confirmed by Gas Chromatography (S4a) and LC mass spectra of degradation products (S4b, S4c and S4d). **4**

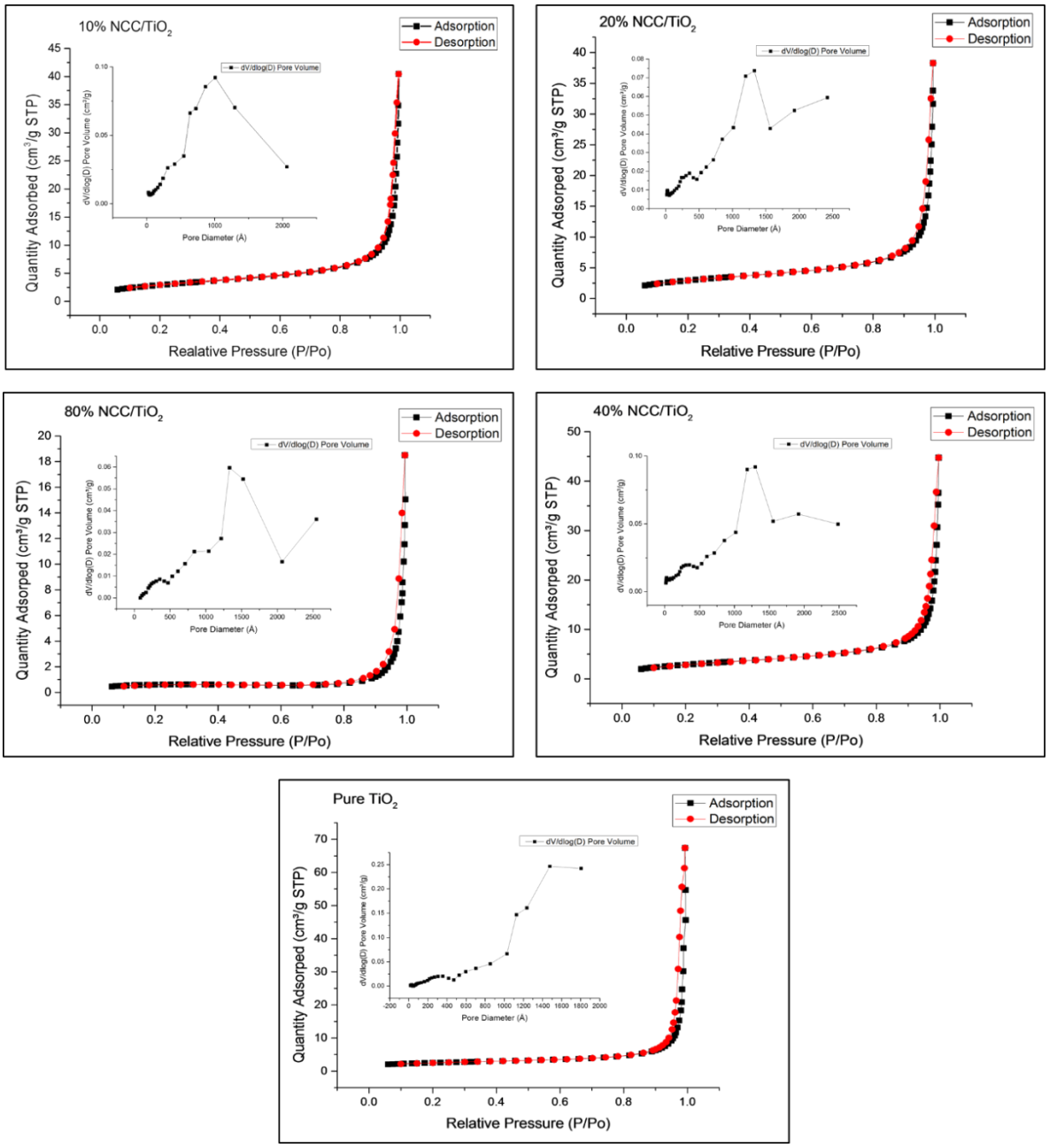


Figure S1. N_2 adsorption-desorption isotherm plots of synthesized catalysts with pore volume density (insets).

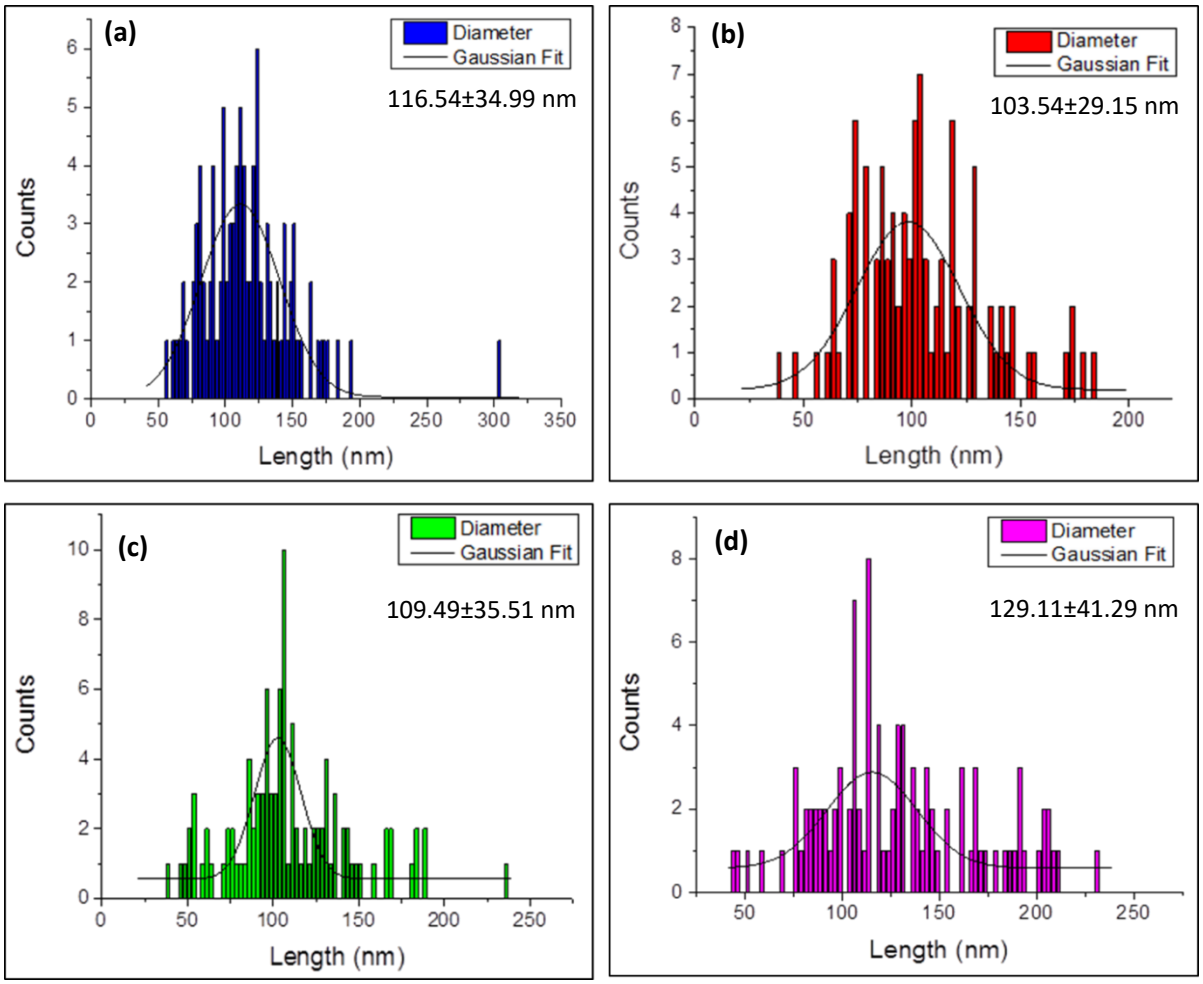


Figure S2. Particle size distribution graphs of 10% (a), 20% (b), 40% (c) and 80% (d) NCC/TiO_2 catalysts

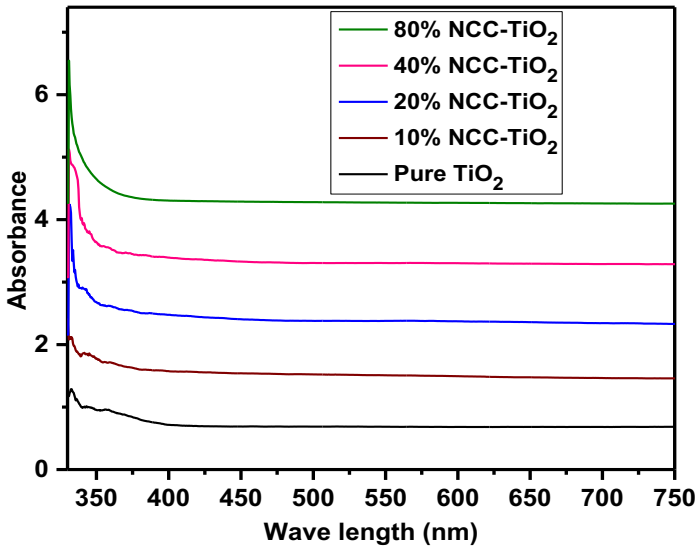


Figure S3. UV-DRS of bare TiO_2 and synthesized (% w/w) NCC doped TiO_2 catalysts.

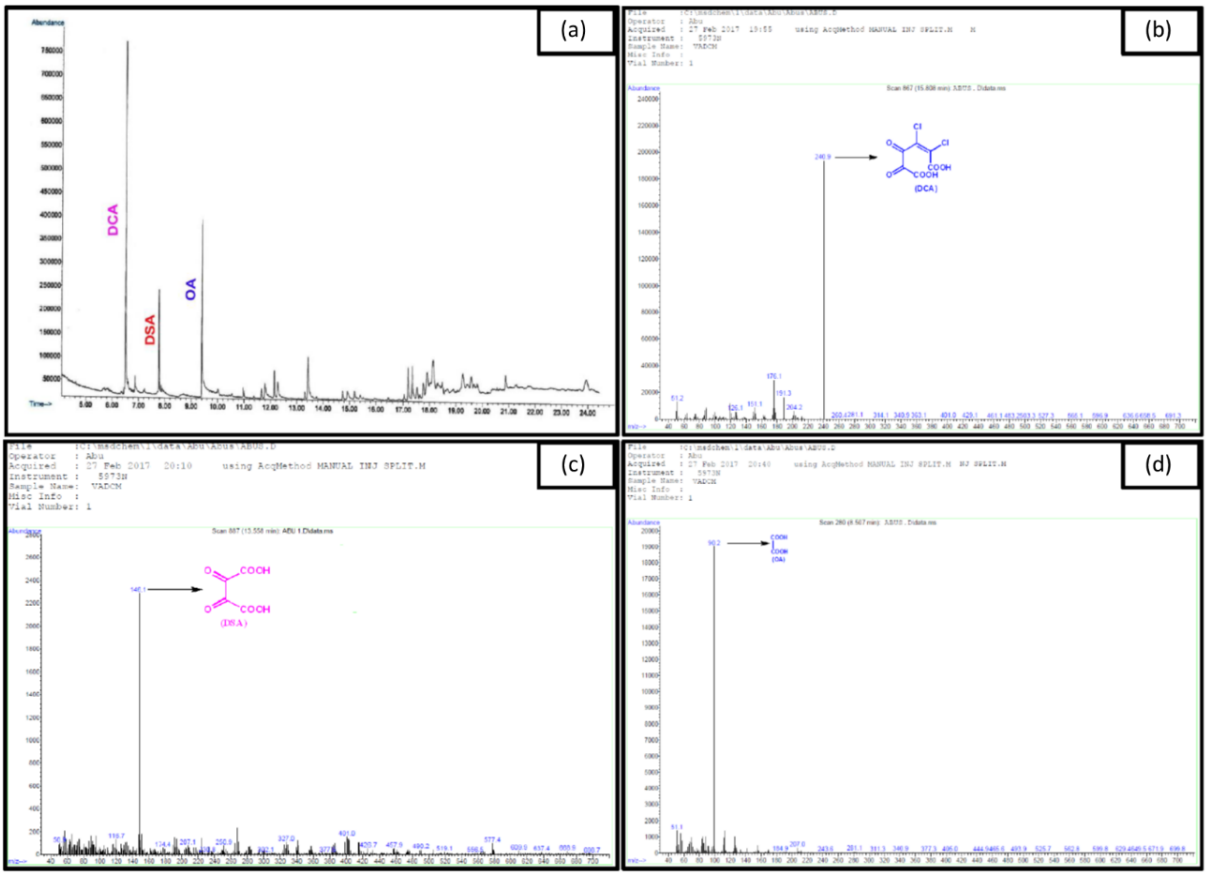


Figure S4. Degradation products confirmed by Gas Chromatography (S4a) and LC mass spectra of degradation products (S4b, S4c and S4d).