

Analysis of Photocatalytic Degradation of Phenol with Exfoliated Graphitic Carbon Nitride and Light-Emitting Diodes using Response Surface Methodology (RSM)

Adeem Ghaffar Rana ^{1,2}, and Mirjana Minceva ^{1,*}

¹ Biothermodynamics, TUM School of Life Sciences, Technical University of Munich, Maximus-von-Imhof-Forum 2, 85354, Freising, Germany; adeem.rana@tum.de; mirjana.minceva@tum.de;

² Department of Chemical, Polymer and Composite Materials Engineering, University of Engineering and Technology (UET), Lahore, Pakistan; adeem.rana@tum.de

* Correspondence: mirjana.minceva@tum.de; Tel.: (+498161716170)

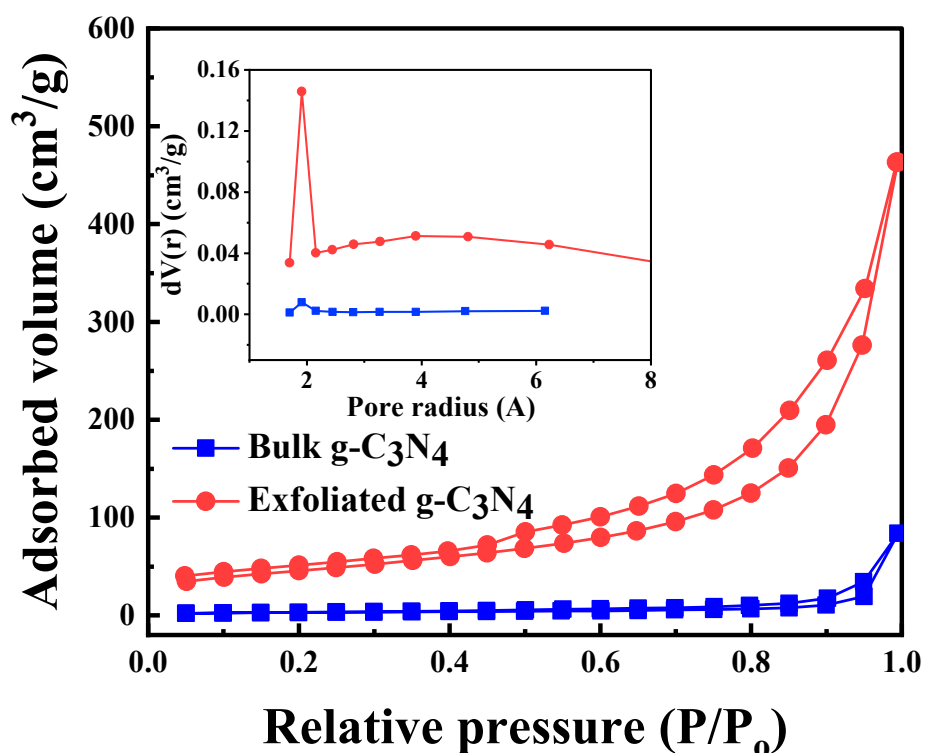


Figure S1 N₂ adsorption-desorption isotherms of bulk and exfoliated g-C₃N₄. The inset shows the corresponding BJH pore size distribution curves of the sample

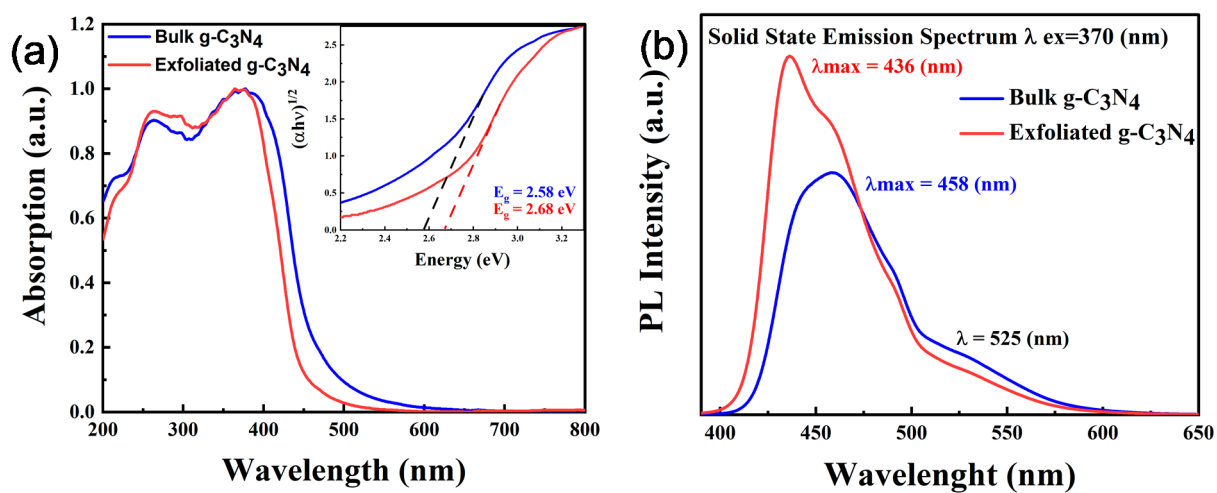


Figure S2 (a) UV-Vis absorption spectra and (b) PL spectra of bulk and exfoliated g-C₃N₄; insets of (a) showing the Tauc plots

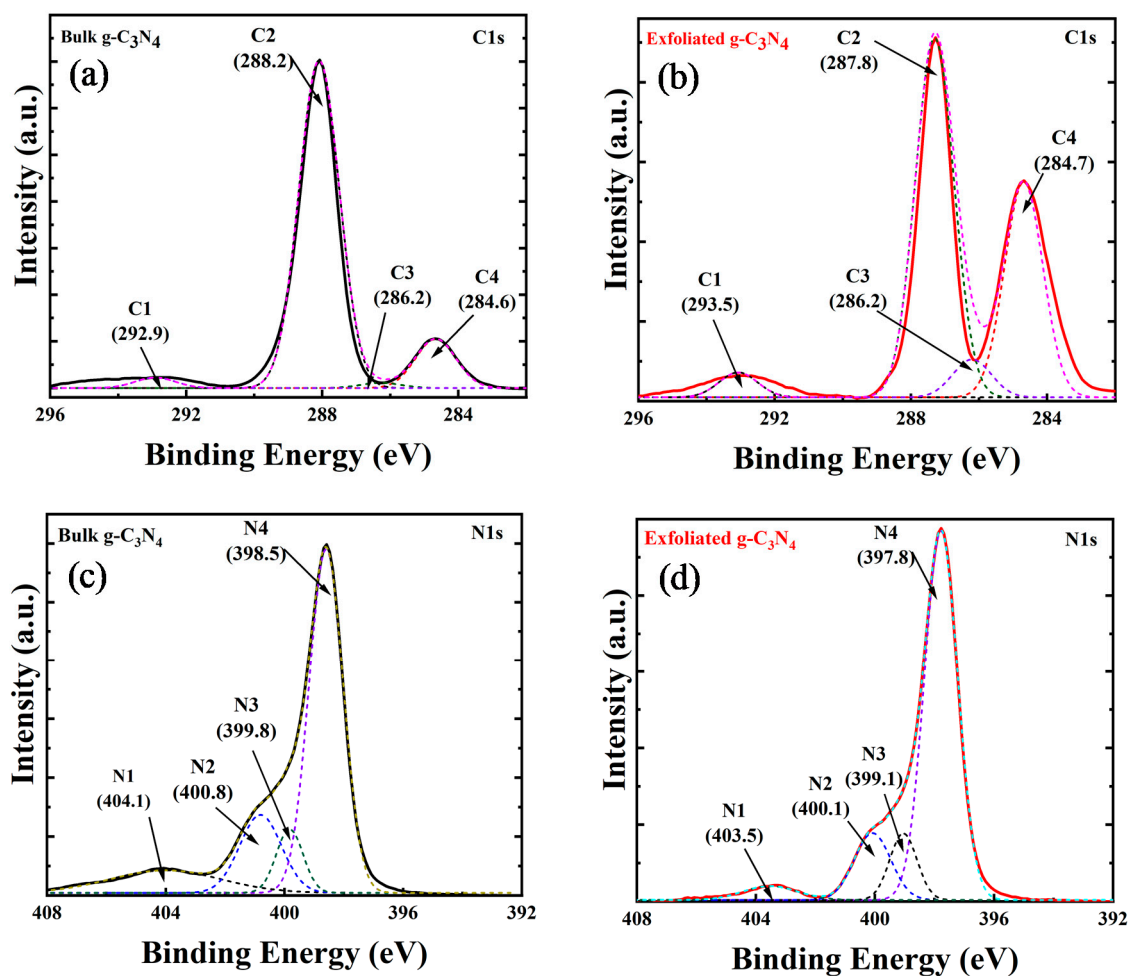


Figure S3 XPS spectra of bulk and exfoliated g-C₃N₄ C1s, N1s

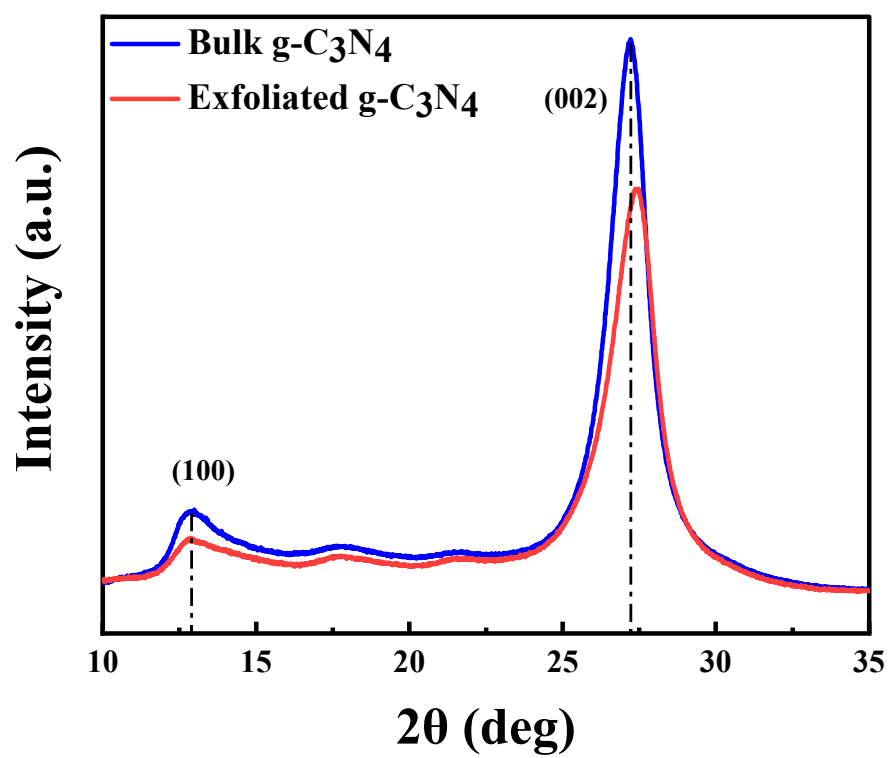


Figure S4 X-ray diffraction patterns of bulk and exfoliated g-C₃N₄