

## **Supporting Information**

for

### **Investigation of the photocatalytic efficiency of tantalum alkoxy carboxylate-derived Ta<sub>2</sub>O<sub>5</sub> nanoparticles in rhodamine B removal**

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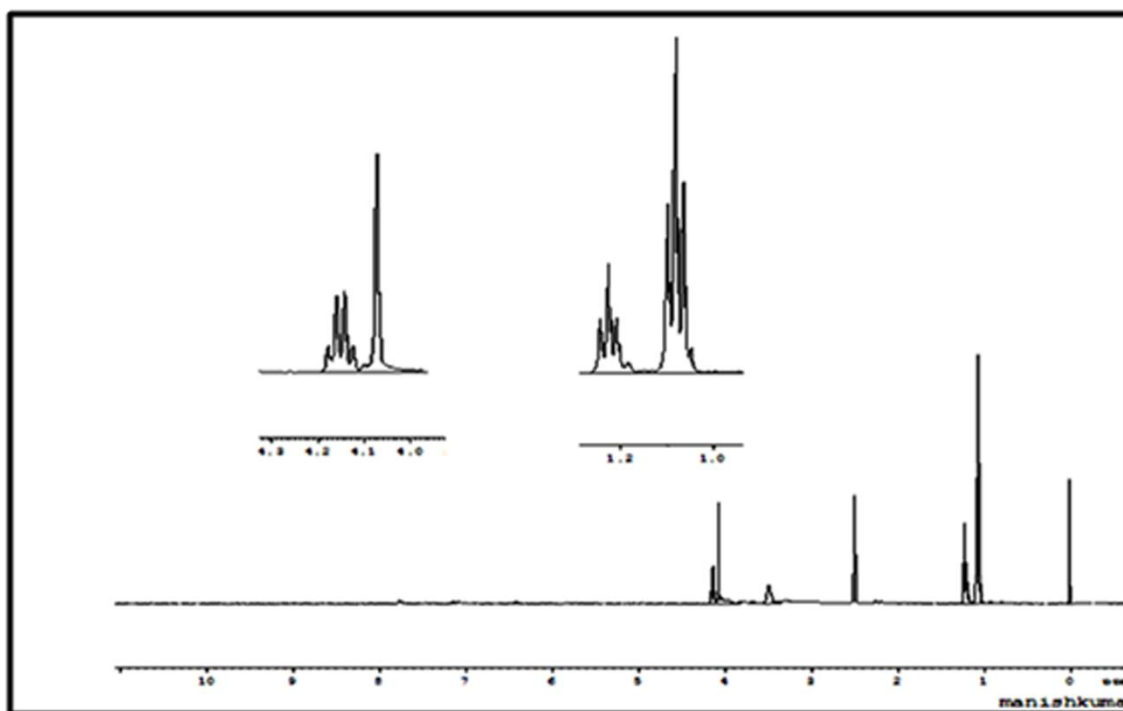
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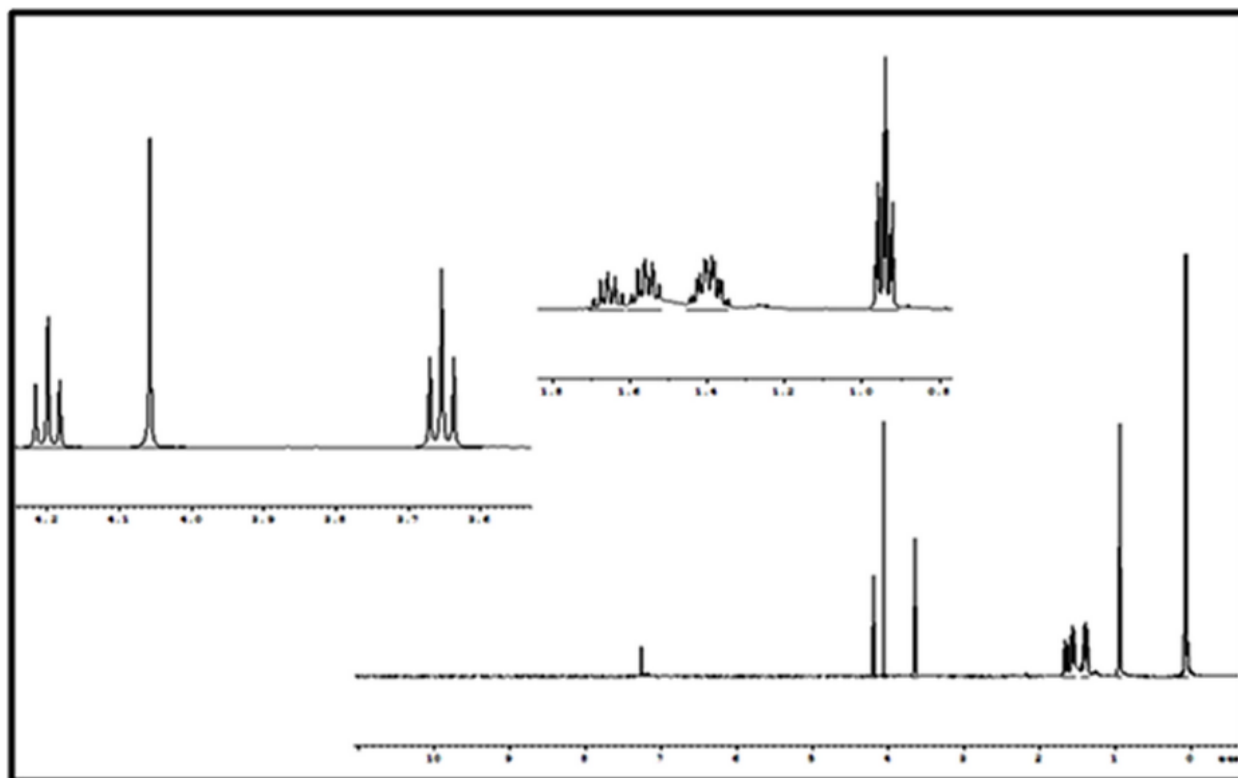
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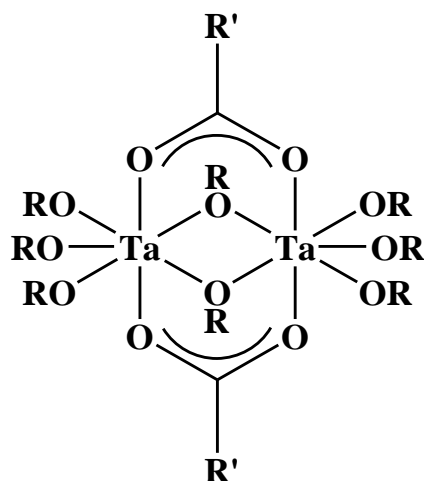
### **Additional experimental data**



**Figure S1:**  $^1\text{H}$  NMR spectrum of  $\text{Ta}(\text{OEt})_4(\text{OOCCH}_2\text{Cl})$ .



**Figure S2:**  $^1\text{H}$  NMR spectrum of  $\text{Ta}(\text{On-Bu})_4(\text{OOCCH}_2\text{Cl})$ .



**Figure S3:** Proposed structure of  $\text{Ta}(\text{OR})_4(\text{OOCR}')$ .