

Supplement Information

Solubility properties of unsubstituted metal phthalocyanines in different types of
solvents

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Spectra of Metal Phthalocyanine in formic acid (FA)

As already explained in the paper formic acid (FA) can be decomposed catalytically by phthalocyanines ($\text{HCOOH} \rightarrow \text{H}_2\text{O} + \text{CO}_2$). Hanke *et al.* studied the activation energy for the catalytical decomposition of FA in the presence of metal phthalocyanine and at different temperatures.¹ To minimize this reaction we used cold FA for our studies. Even cooling the solution was often not sufficient to avoid decomposition. In several cases no saturation concentration could be determined with FA as solvent. Especially the measured values are extremely sensitive to the duration of the exposure in the ambient atmosphere and temperature. Here we show the measured spectra.

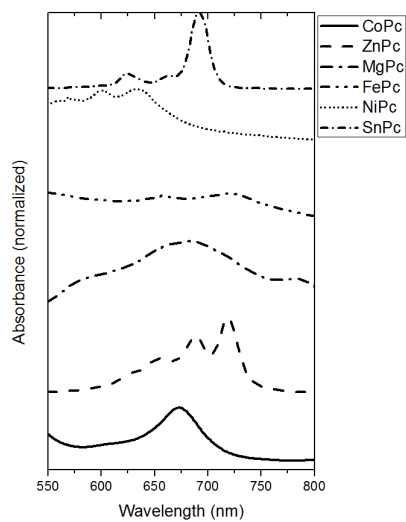


Figure 1. UV-Vis absorption spectra of Metal-phthalocyanine dissolved in FA.

- (1) Hanke, W. *Zeitschrift für anorganische und allgemeine Chemie* **1966**, 343, 121.