

CONSTRUCTION AND APPLICATION OF A PORTABLE MICROCONTROLLED TURBIDIMETER FOR THE *IN SITU* DETERMINATION OF SULFATE

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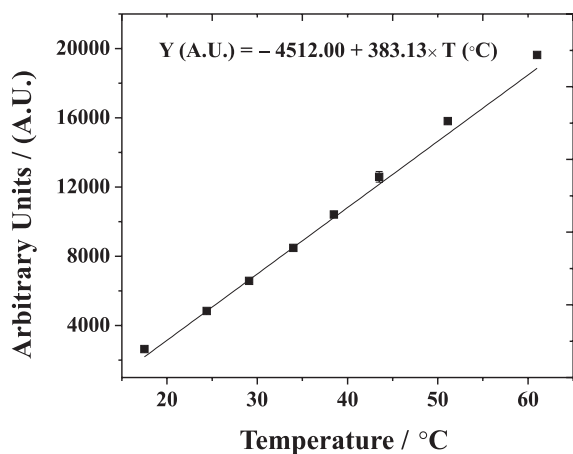


Figure 1S. Calibration curve of the temperature sensor embedded in the turbidimeter. Data are in arbitrary units (A.U.) refer to AD units. Coefficient of correlation (r) = 0.997. For construction of this curve an average of 5 replicated for each point were performed and a RSD of 0.1 % was found

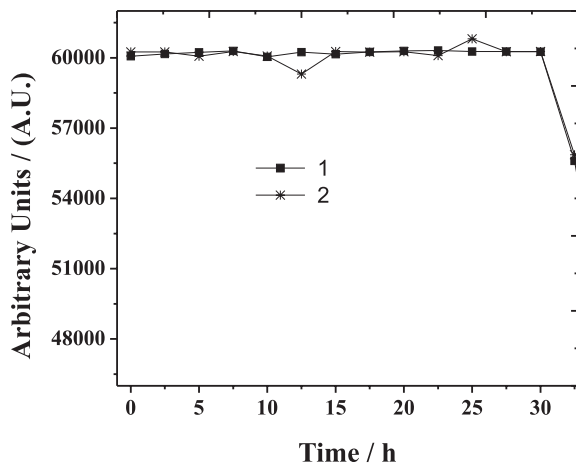


Figure 2S. Stability evaluation for the microcontrolled turbidimeter in battery module: (1) in an acclimatized room at 18 °C and (2) field analyses with a variation of temperature from 18 °C to 29 °C. Only a cuvette with deionized water was used

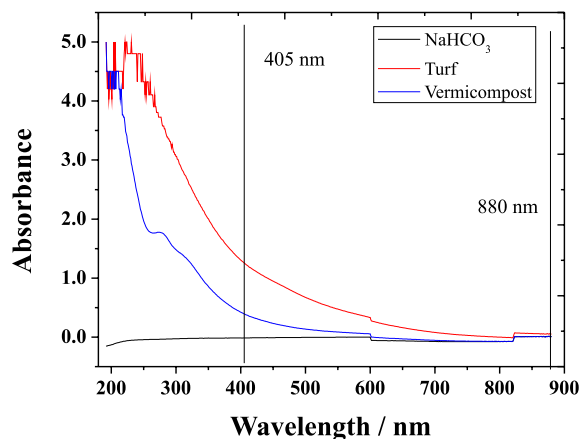


Figure 3S. Spectra of humic acids from Turf (peat) and vermicompost extracted with NaHCO_3

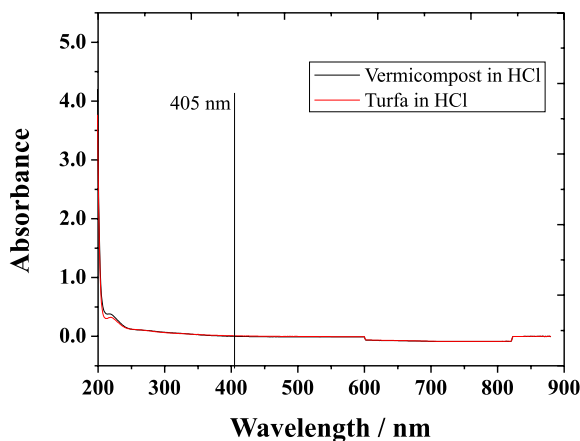


Figure 4S. Spectra of the supernatant solution extracted of the treatment of humic acids (Turf and Vermicompost) with $0.1 \text{ mol L}^{-1} \text{ HCl}$