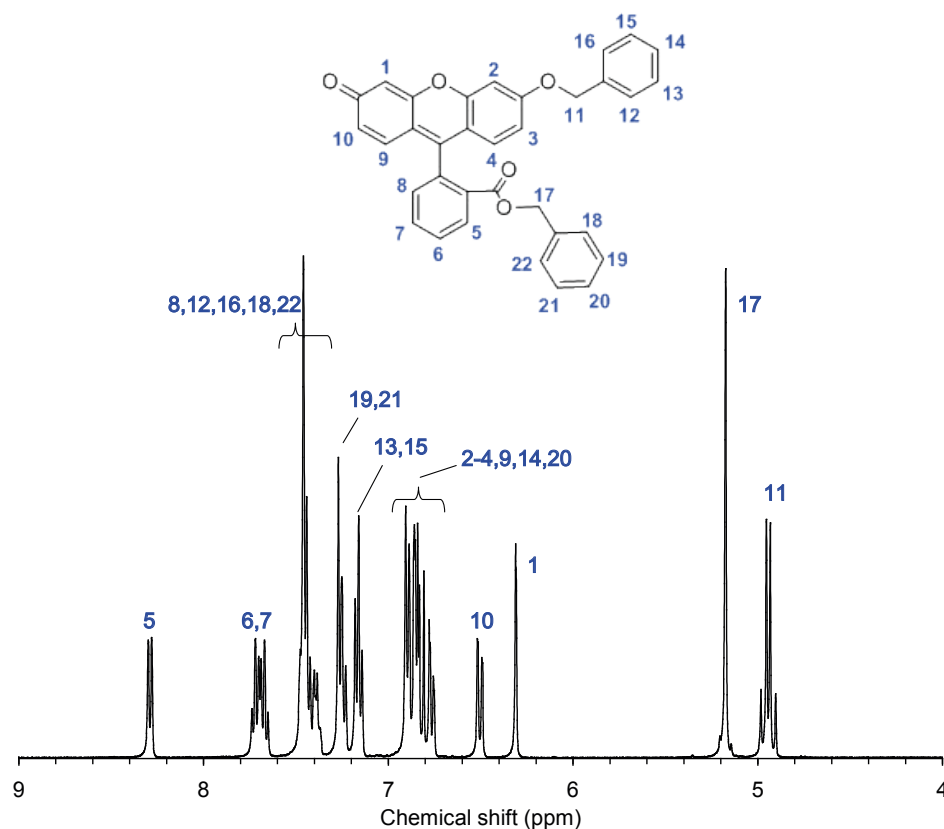
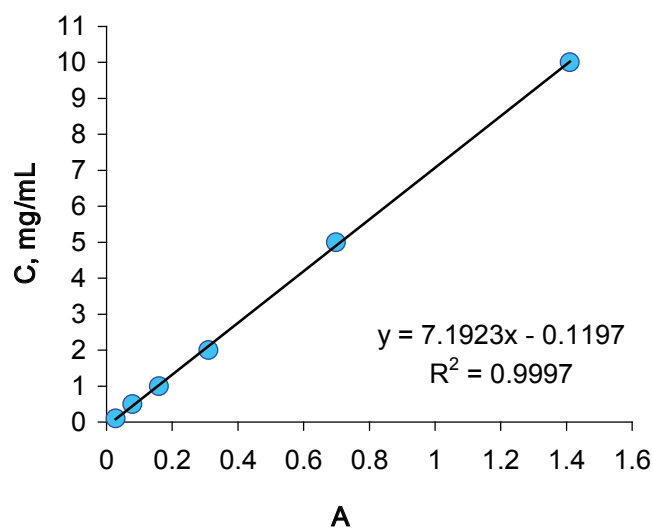


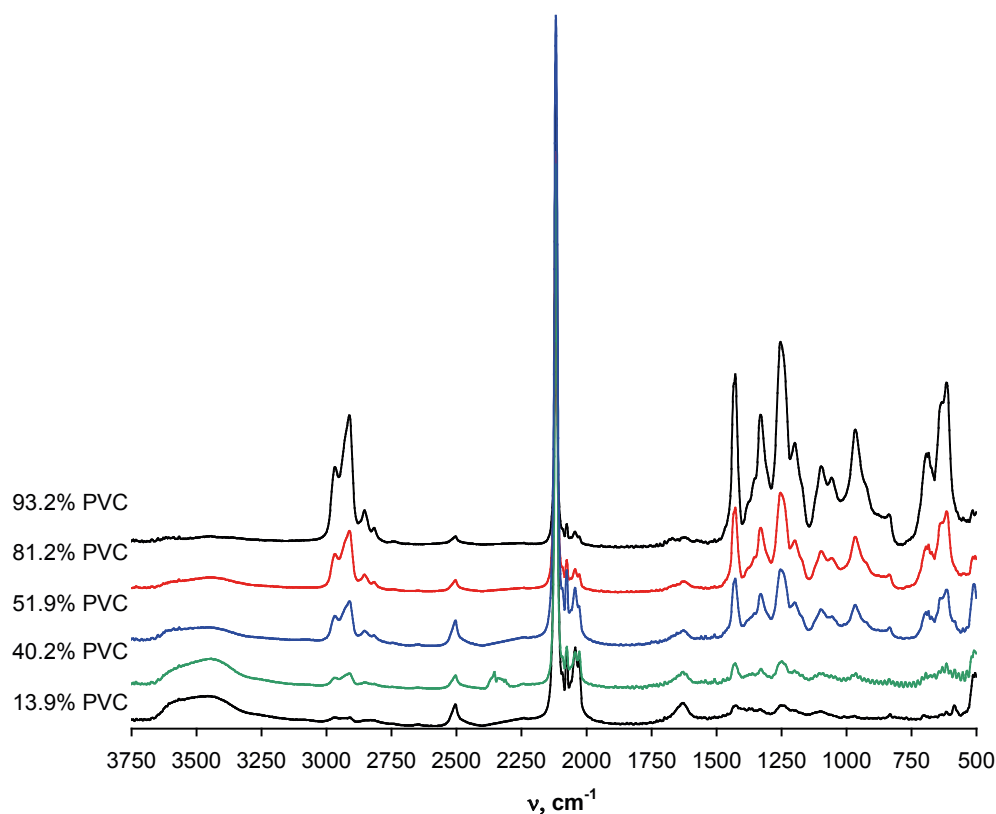
# Fluorescent nanoplastic particles: synthesis and influence on diatoms



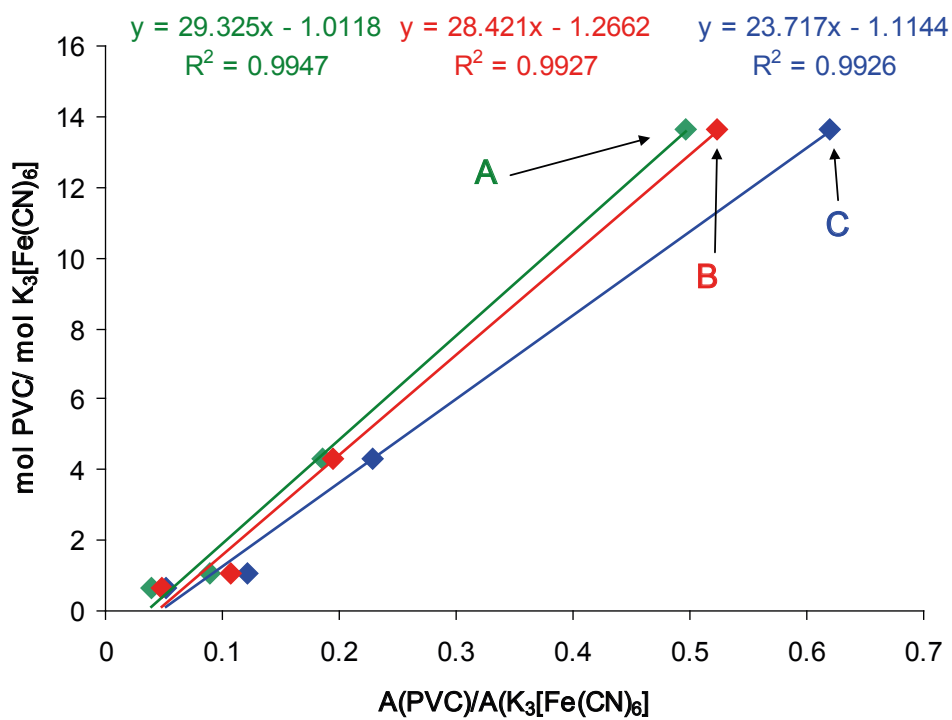
Suppl.1. <sup>1</sup>H-NMR spectrum of the dye O-benzylfluorescein benzyl ester.



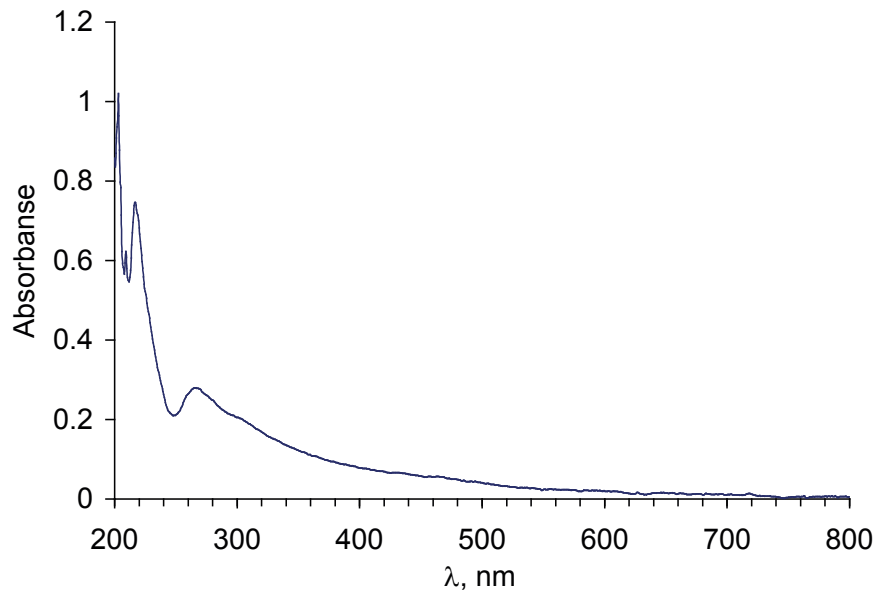
Suppl.2. Calibration curve: SDS concentration vs. absorbance at 655 nm.



Suppl.3. IR spectra of PVC and  $K_3Fe(CN)_6$  calibration mixtures.



Suppl.4. Calibration curves: molar ratio of PVC to  $K_3Fe(CN)_6$  vs. absorbance ratio of PVC to  $K_3Fe(CN)_6$  at 617  $cm^{-1}$  / 2117.7  $cm^{-1}$  (A), 1253  $cm^{-1}$  / 2117.7  $cm^{-1}$  (B) and 1427.5  $cm^{-1}$  / 2117.7  $cm^{-1}$  (C).



**Suppl.5.** UV-Vis absorbance spectrum of PVC nanoparticles in water. PV20-M31, C = 100 mg/L.