

Supplementary Information

Supercritical CO₂-assisted synthesis of an ultrasensitive amphibious quantum dot-molecularly imprinted sensor

A. Lourenço^a, R. Viveiros^a, A. Mouro^a, J. C. Lima^a, V. D. B. Bonifácio^{b*} and T. Casimiro^{a*}

^aREQUIMTE, Departamento de Química, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Campus de Caparica, 2829-516 Caparica, Portugal.

^bInstituto de Telecomunicações, Torre Norte, Piso 10, Instituto Superior Técnico, Av. Rovisco Pais, 1, 1049-001, Lisboa, Portugal.

*Email: vasco.bonifacio@tecnico.ulisboa.pt (V.D.B. Bonifácio)

and teresa.casimiro@fct.unl.pt (T. Casimiro).

Table of Contents:

1. FT-IR and NMR spectra of *N*-(2-mercaptoethyl)acrylamide
2. UV-Vis, Fluorescence and FT-IR spectra of amphibious CdTe quantum dots
3. FT-IR spectrum of CdTe@MIP

1. FT-IR and NMR spectra of *N*-(2-mercaptoethyl)acrylamide

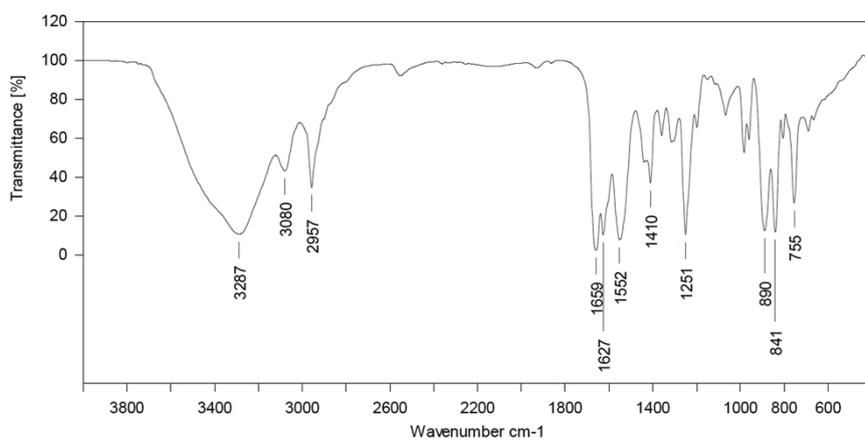


Figure S1. IR spectrum of *N*-(2-mercaptoethyl)acrylamide.

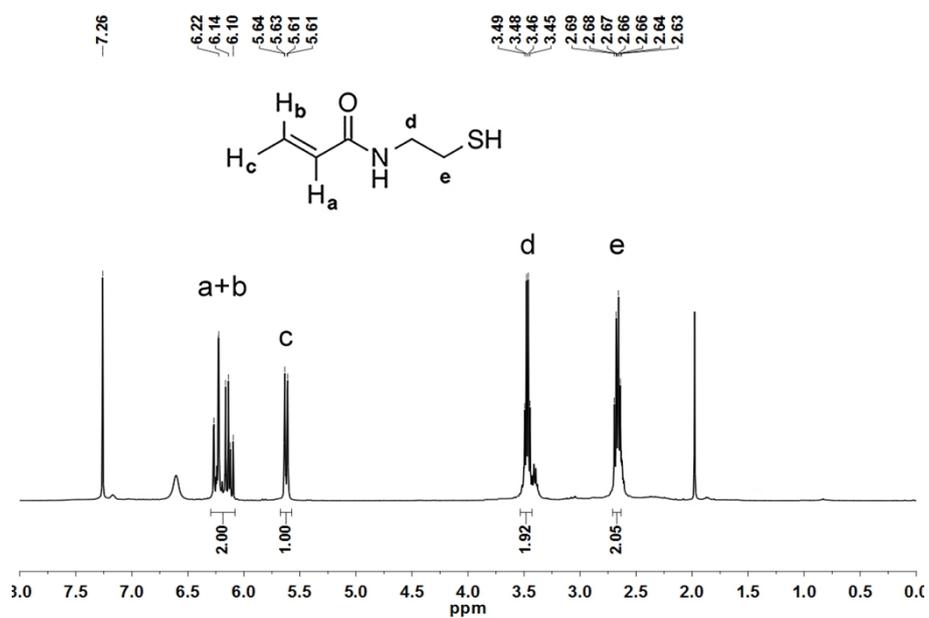


Figure S2. ¹H NMR spectrum of *N*-(2-mercaptoethyl)acrylamide in CDCl₃.

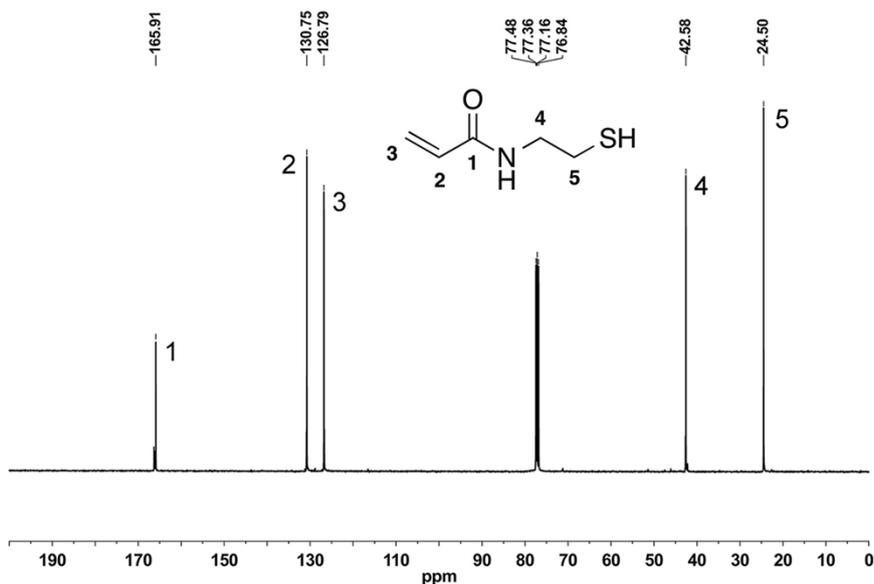


Figure S3. ^{13}C NMR spectrum of *N*-(2-mercaptoethyl)acrylamide in CDCl_3 .

2. UV-Vis, Fluorescence and FT-IR spectra of amphibious CdTe quantum dots

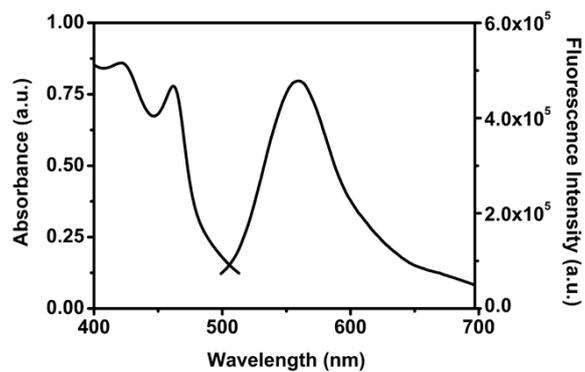


Figure S4. Absorption and fluorescence spectra of amphibious CdTe quantum dots in water.

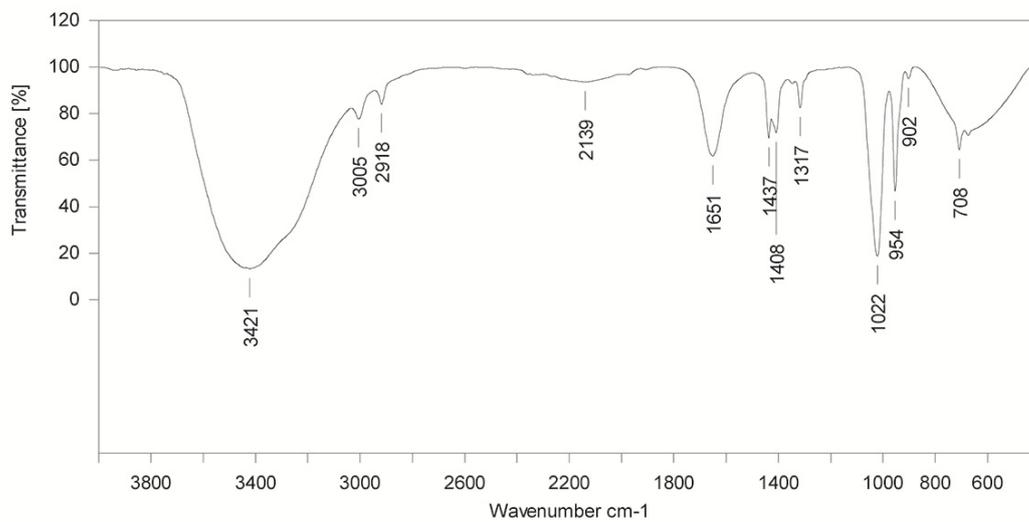


Figure S5. IR spectrum of amphibious CdTe quantum dots.

3. FT-IR spectrum of CdTe@MIP

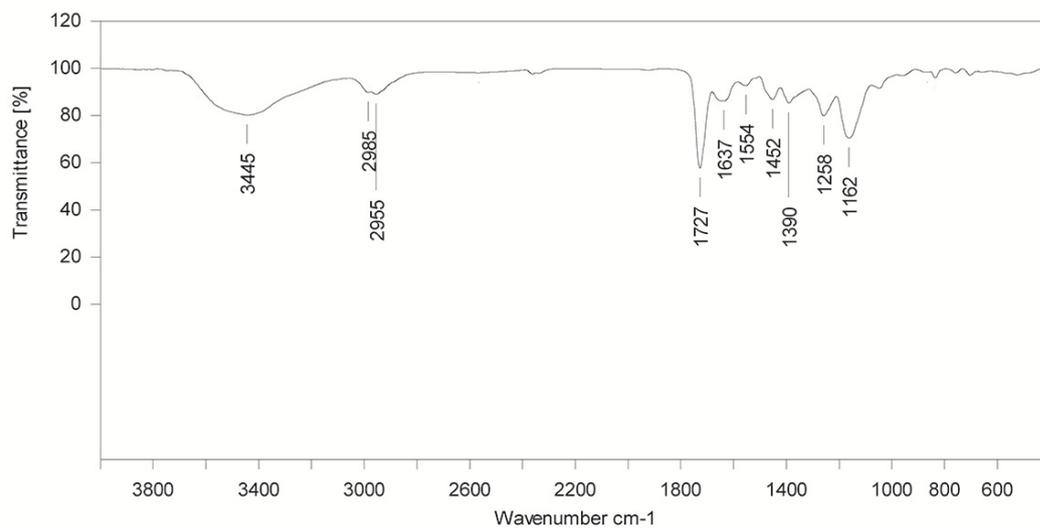


Figure S6. IR spectrum of CdTe@MIP.