

SUPPLEMENTARY INFORMATION

Structural and optical properties of alloyed quaternary CdSeTeS core and CdSeTeS/ZnS core-shell quantum dots

Oluwasesan Adegoke^a, Tebello Nyokong^b, Patricia B.C. Forbes^{a *}

^a*Department of Chemistry, Faculty of Natural and Agricultural Sciences, University of Pretoria, Lynnwood Road, Pretoria 0002, South Africa*

^b*Department of Chemistry, Rhodes University, Grahamstown 6140, South Africa*

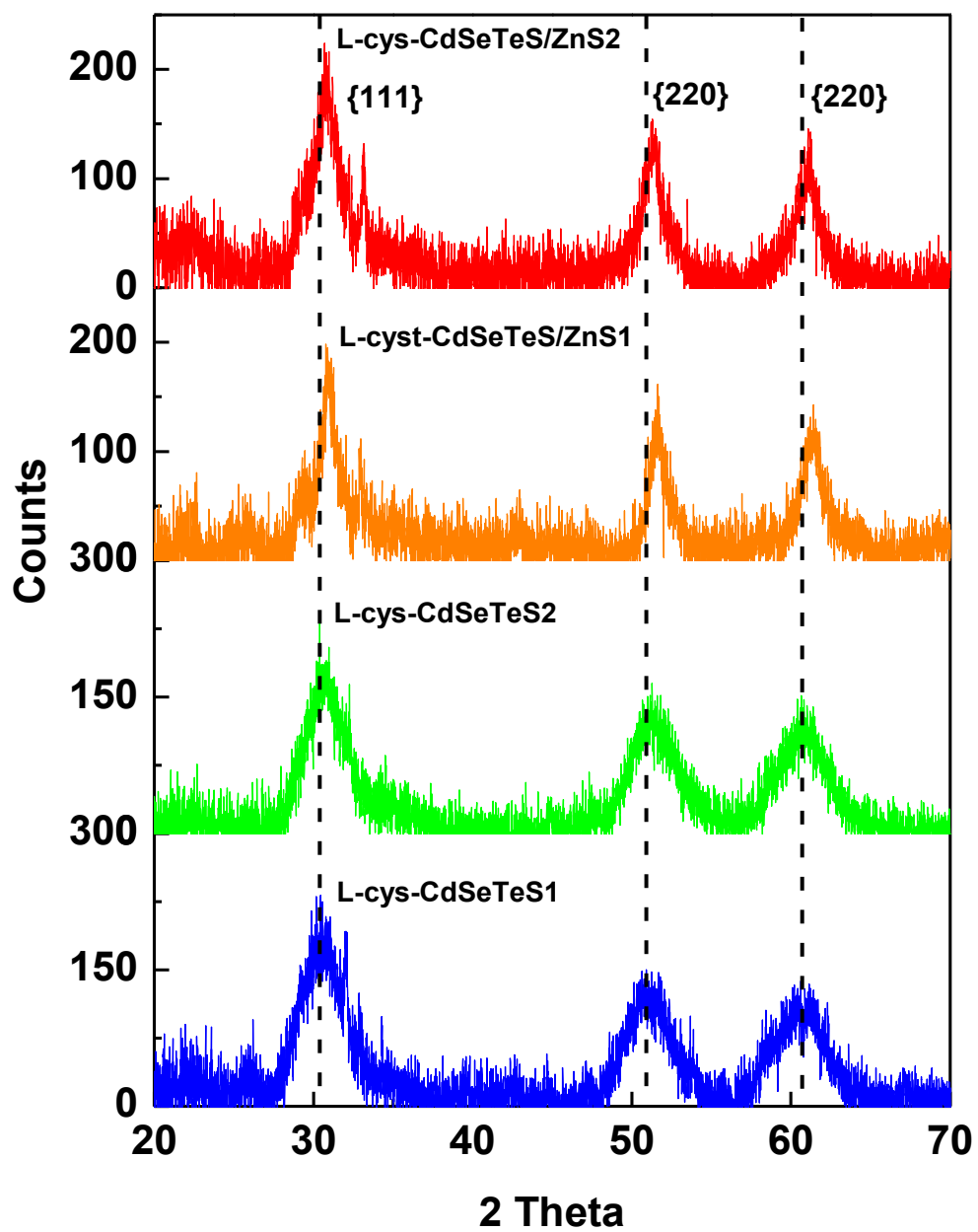
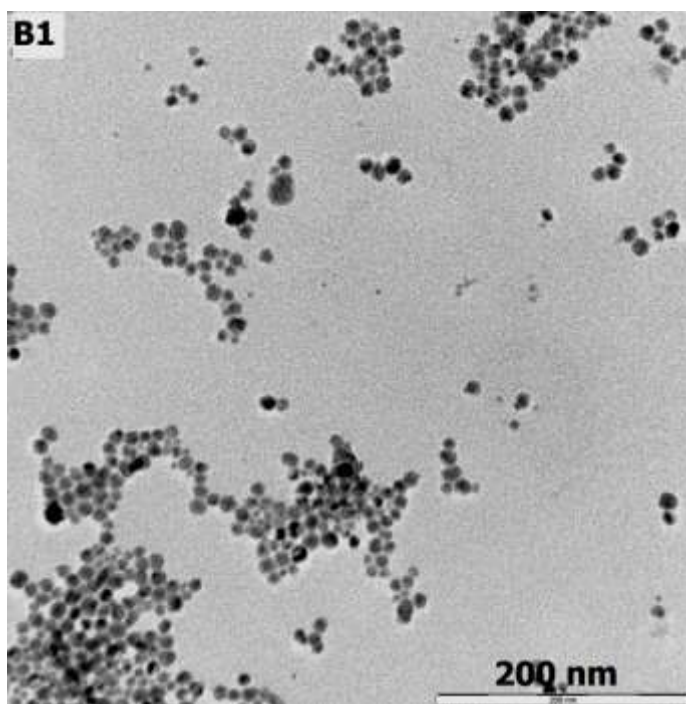
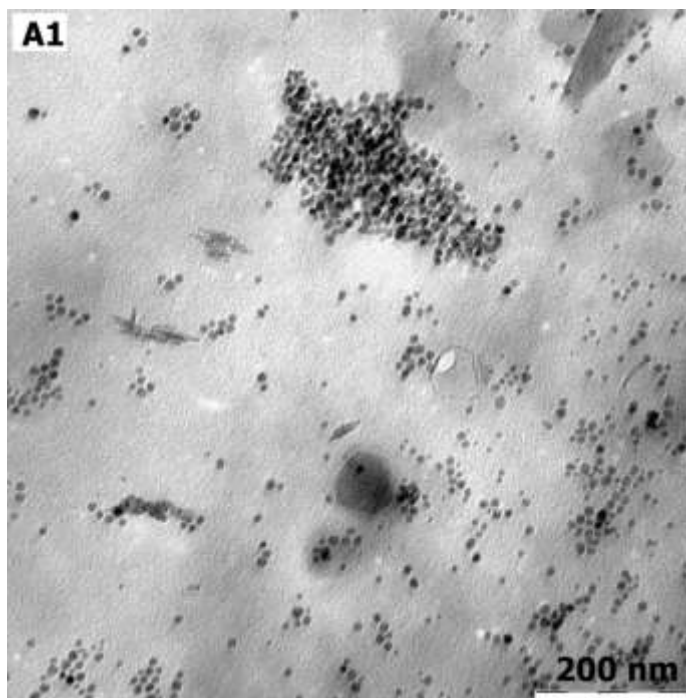


Fig. S-1. XRD patterns for the water-soluble L-cys-capped CdSeTeS1, CdSeTeS2, CdSeTeS/ZnS1 and CdSeTeS/ZnS2 QDs.



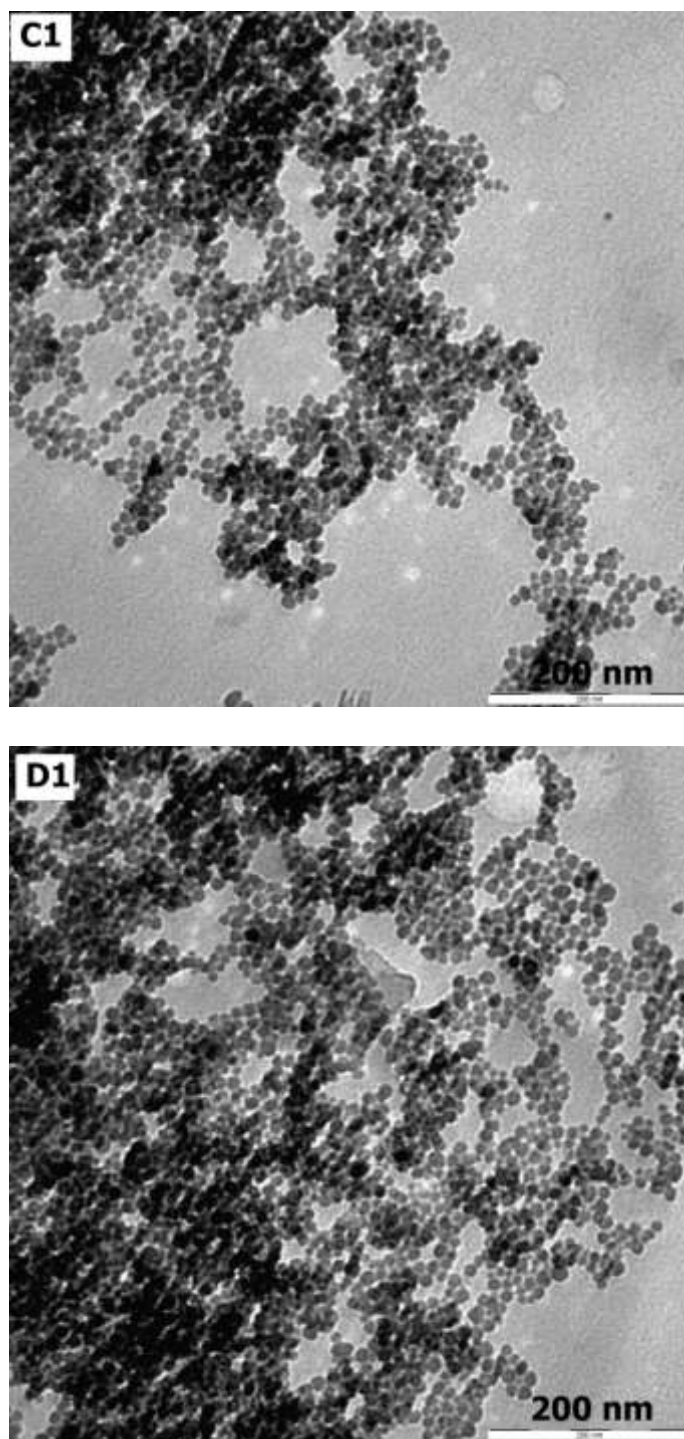


Fig. S-2. TEM images of water-soluble L-cys-capped QDs are shown as (A1) CdSeTeS1, (B1) CdSeTeS2, (C1) CdSeTeS/ZnS1, (D1) CdSeTeS/ZnS2.

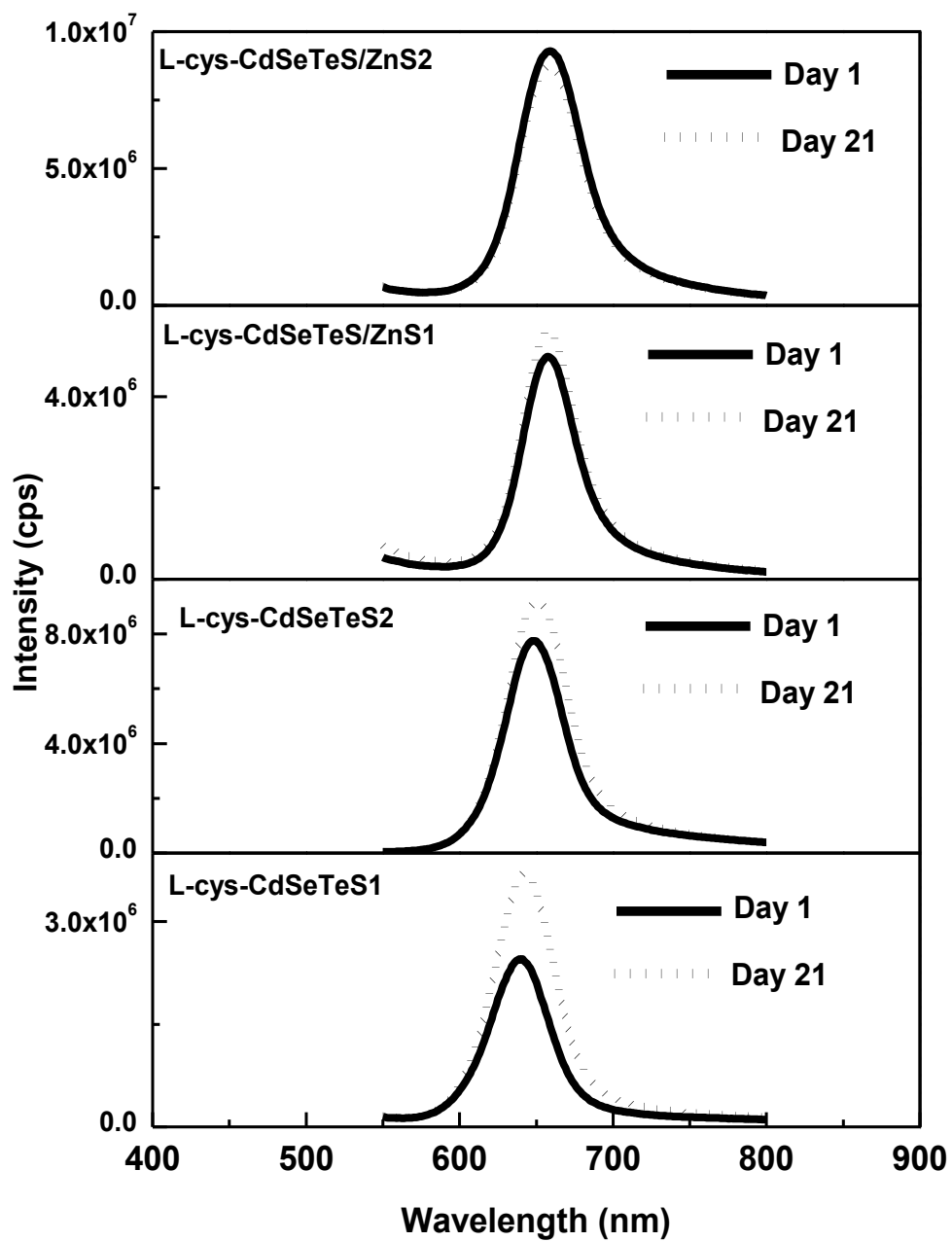


Fig. S-3. PL stability of the water-soluble QDs measured before (solid line) and after 21 days (dotted line) of exposure to ambient light.