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Fig. 1. (a) TEM image of ZnO nanorods with a 50 nm scale bar. (b) HRTEM image of ZnO nanorods with a 10 nm scale bar. (c) Histogram of particle size distribution with a LogNormal fit curve. (d) XRD pattern showing peaks for (111), (220), and (311) planes.

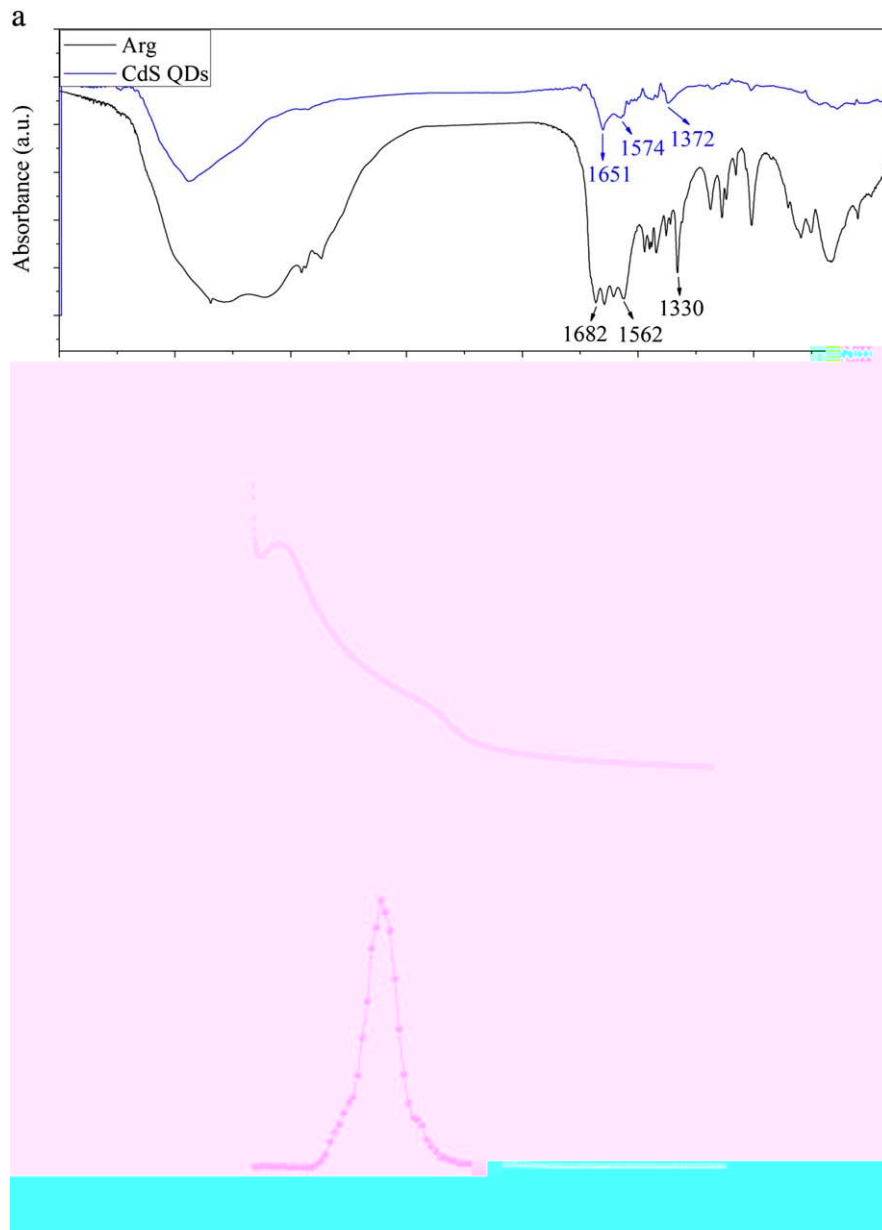


Fig. 2. (a) FTIR spectra of Arg and CdS QDs. (b) FTIR spectra of Arg and CdS QDs with a pink shaded region from 1800 to 1400 cm⁻¹ and a cyan shaded region from 1400 to 1000 cm⁻¹.

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4. Conclusions

