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Highly sensitive selective sensing of nickel ions using repeatable fluorescence quenching-emerging of the CdTe quantum dots

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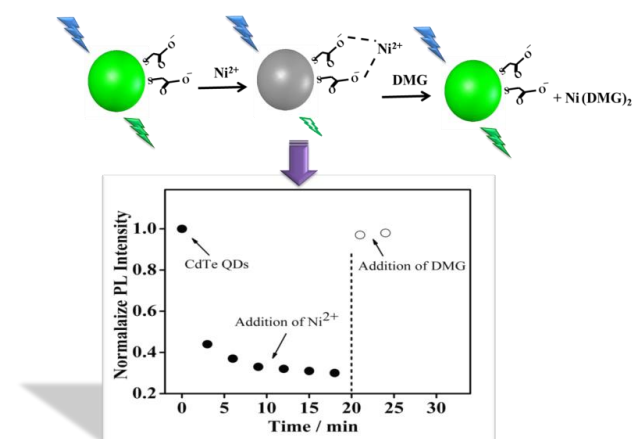
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Graphical Abstract



A new and simple strategy was developed for the highly sensitive and selective detection of nickel ion using highly fluorescent water-soluble TGA-CdTe QDs as the fluorescence probes.

HIGHLIGHTS

- The high efficiency CdTe QDs was synthesized
- The fluorescent sensor shows high selectivity and sensitivity to Ni^{2+} ions

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