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Carbon nanodots functionalized with rhodamine and poly(ethylene glycol) for ratiometric sensing of Al ions in aqueous solution

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Highlights- Fluorescent carbon nanodots (CDs) are synthesized with rhodamine moiety and PEG.

- The CDs shows excellent solubility in aqueous solution because of the presence of PEG.

- The CDs showed excellent ratiometric sensing toward Al ions via FRET.

- The CDs shows high selectivity toward Al ion, even in the mixed metal ion solution.

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