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A Red Fluorescence Probe Based on Naphthalene Diimide for Selective Detection of Sulfide by Displacement Strategy

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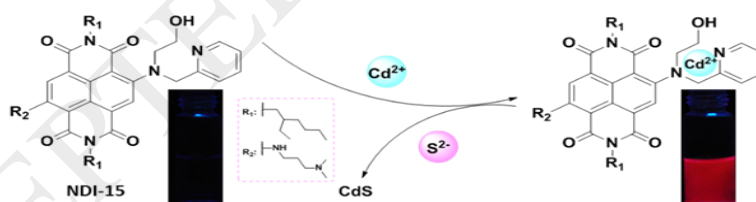
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Research highlights

- The recognition of sulfide by combining the change of excited state and the displacement strategy
- The realization of twisted intramolecular charge transfer (TICT) in the excited state by the reasonable design of naphthalene diimide derivatives
- The red fluorescence with “on” or “off” state by the addition of metal ions followed by sulfide in the HeLa cell

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