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| Title: | A New Thiophene-Appended Fluorescein-Hydrazone-Based Chromo-Fluorogenic Sensor for the Screening of Hg ²⁺ Ions in Real Water Samples |
| Authors: | Dey, Dhananjay (/jspui/browse?type=author&value=Dey%2C+Dhananjay) |
| Keywords: | Thiophene-Appended Fluorescein-Hydrazone-Based Chromo-Fluorogenic Hg ²⁺ |
| Issue Date: | 2021 |
| Publisher: | Chemistry Europe |
| Citation: | ChemistrySelect, 6(38), 10464–10479. |
| Abstract: | A new thiophene appended fluorescein-hydrazone derivative (FT) has been demonstrated as real-time sensory system for Hg ²⁺ ions in aqueous medium. The detection limit of the probe FT towards Hg ²⁺ was 137 nM. The FT-Hg ²⁺ complex was found to be reversible in presence of EDTA. Significance of the probe lies in its successful application for the detection and quantification of Hg ²⁺ in real water samples and logic gate fabrication for future incorporation in small organic molecule based efficient molecular devices. |
| Description: | Only IISERM authors are available in the record. |
| URI: | https://doi.org/10.1002/slct.202102692 (https://doi.org/10.1002/slct.202102692) http://hdl.handle.net/123456789/5076 (http://hdl.handle.net/123456789/5076) |
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