

Accepted Manuscript

Title: A proficient magnetic nano-platform with covalently assembled Methyl Red indicator for the dual recognition of pH and Hg²⁺

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PII: S0925-4005(17)30046-1
DOI: <http://dx.doi.org/doi:10.1016/j.snb.2017.01.039>
Reference: SNB 21564

To appear in: *Sensors and Actuators B*

Received date: 20-8-2016
Revised date: 1-1-2017
Accepted date: 5-1-2017

Please cite this article as: Gurjaspreet Singh, Sunita Rani, A proficient magnetic nano-platform with covalently assembled Methyl Red indicator for the dual recognition of pH and Hg²⁺, *Sensors and Actuators B: Chemical* <http://dx.doi.org/10.1016/j.snb.2017.01.039>

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A proficient magnetic nano-platform with covalently assembled Methyl Red indicator for the dual recognition of pH and Hg²⁺

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