

## Accepted Manuscript

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PII: S0925-4005(18)30966-3  
DOI: <https://doi.org/10.1016/j.snb.2018.05.064>  
Reference: SNB 24720

To appear in: *Sensors and Actuators B*

Received date: 30-1-2018  
Revised date: 4-5-2018  
Accepted date: 12-5-2018

Please cite this article as: Hao-Yang Tang, Ying Gao, Bin Li, Chang-Wei Li, Yuan Guo, Reaction-based colorimetric and ratiometric fluorescent probe for highly selective detection of silver ions, *Sensors and Actuators B: Chemical* <https://doi.org/10.1016/j.snb.2018.05.064>

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# Reaction-based colorimetric and ratiometric fluorescent probe for highly selective detection of silver ions

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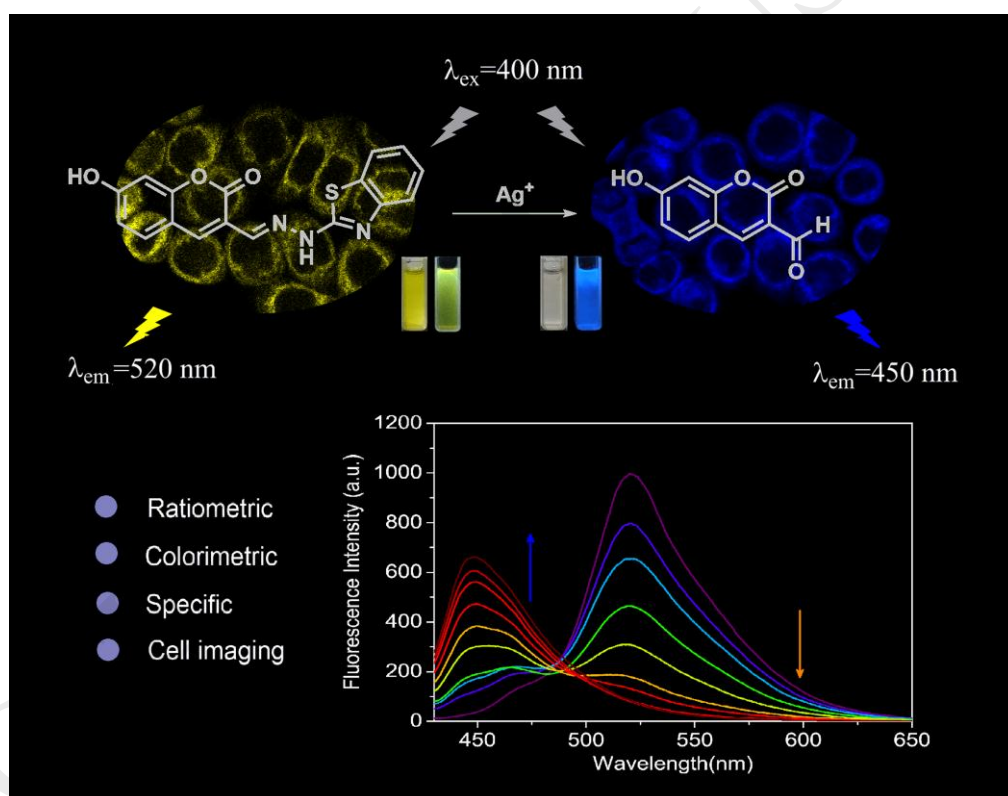
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## Graphical Abstract



A novel colorimetric and ratiometric fluorescent probe **CHa** based on  $\text{Ag}^+$ -induced hydrolysis of hydrazone was designed and synthesized. Upon addition of  $\text{Ag}^+$  to a solution of **CHa**, a visible color change from yellow to colorless and a fluorescence color change from yellow to blue were observed. The probe displayed a

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