

# Accepted Manuscript

A highly selective and sensitive fluorescent sensor for relay recognition of  $\text{Zn}^{2+}$  and  $\text{HSO}_4^-/\text{H}_2\text{PO}_4^-$  with “on-off” fluorescent responses

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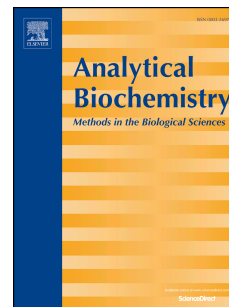
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## Graphical Abstract

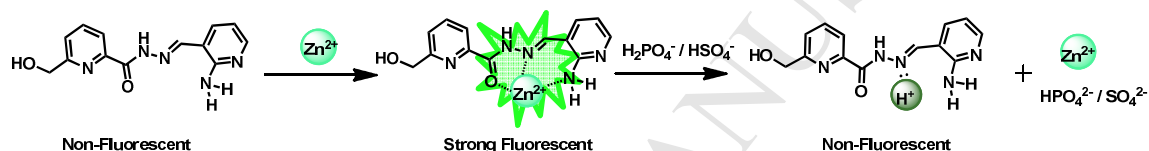
**A highly selective and sensitive fluorescent sensor for relay recognition of  $Zn^{2+}$  and  $HSO_4^-/H_2PO_4^-$  with “on-off” fluorescent responses**

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An effective and simple chemosensor was successfully constructed, which able to detect  $Zn^{2+}$  by fluorescence turn-on response. Besides, the chelate of the sensor with  $Zn^{2+}$  can also identify  $HSO_4^-/H_2PO_4^-$  through fluorescence turn-off behaviors.

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