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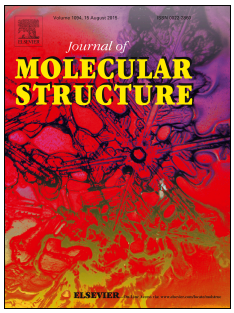

A highly sensitive and selective fluorescent sensor for detection of sulfide anion based on the steric hindrance effect

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A highly sensitive and selective fluorescent sensor for detection of sulfide anion based on the steric hindrance effect

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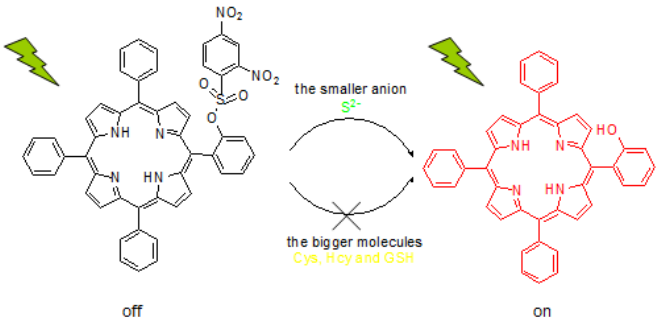

The fluorescent sensor with steric hindrance effect is highly sensitive and selective for detection of S^{2-}, which has a strong anti-disturbance ability to mercapto amino-acids. It has the prospect of application in the exact detection of S^{2-} in complicated living organisms. This approach offers some useful insights for realizing sensitive and selective fluorescent turn-on sensing in the detection assays for other analytes.