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# **A highly sensitive electrochemiluminescence sensor for the detection of L-cysteine based on the rhombus-shaped rubrene microsheets and platinum nanoparticles**

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## **Highlights**

- A novel rhombic rubrene micro-materials with high luminescence efficiency has been prepared by reprecipitation method.
- Using rhombic rubrene micro-materials, a rapid and simple ECL sensor for quantitative analysis of L-cysteine has been developed.
- This sensor displayed excellent selectivity and stability.

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