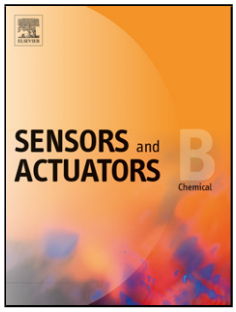

Title: Dual-signal amplification strategy for electrochemiluminescence sandwich biosensor for detection of thrombin

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PII: S0925-4005(16)31460-5
DOI: http://dx.doi.org/doi:10.1016/j.snb.2016.09.043
Reference: SNB 20908

To appear in: *Sensors and Actuators B*

Received date: 29-4-2016
Revised date: 16-8-2016
Accepted date: 8-9-2016

Please cite this article as: Yingjie Li, Yuqin Li, Ning Xu, Jiahong Pan, Tufeng Chen, Yaowen Chen, Wenhua Gao, Dual-signal amplification strategy for electrochemiluminescence sandwich biosensor for detection of thrombin, Sensors and Actuators B: Chemical http://dx.doi.org/10.1016/j.snb.2016.09.043

Highlights

1. Combing the GNPs-graphene withRu-TBA2-AuNPs to amplify the ECL biosensor response.
2. Have a low LOD 6.3 pM
3. Have a good selectivity to different interferences.