

Accepted Manuscript

Facile fabrication of a non-enzymatic nanocomposite of heteropolyacids and CeO₂@Pt alloy nanoparticles doped reduced graphene oxide and its application towards the simultaneous determination of xanthine and uric acid

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PII: S0013-4686(18)30232-9

DOI: [10.1016/j.electacta.2018.01.185](https://doi.org/10.1016/j.electacta.2018.01.185)

Reference: EA 31167

To appear in: *Electrochimica Acta*

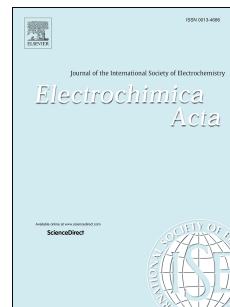
Received Date: 7 November 2017

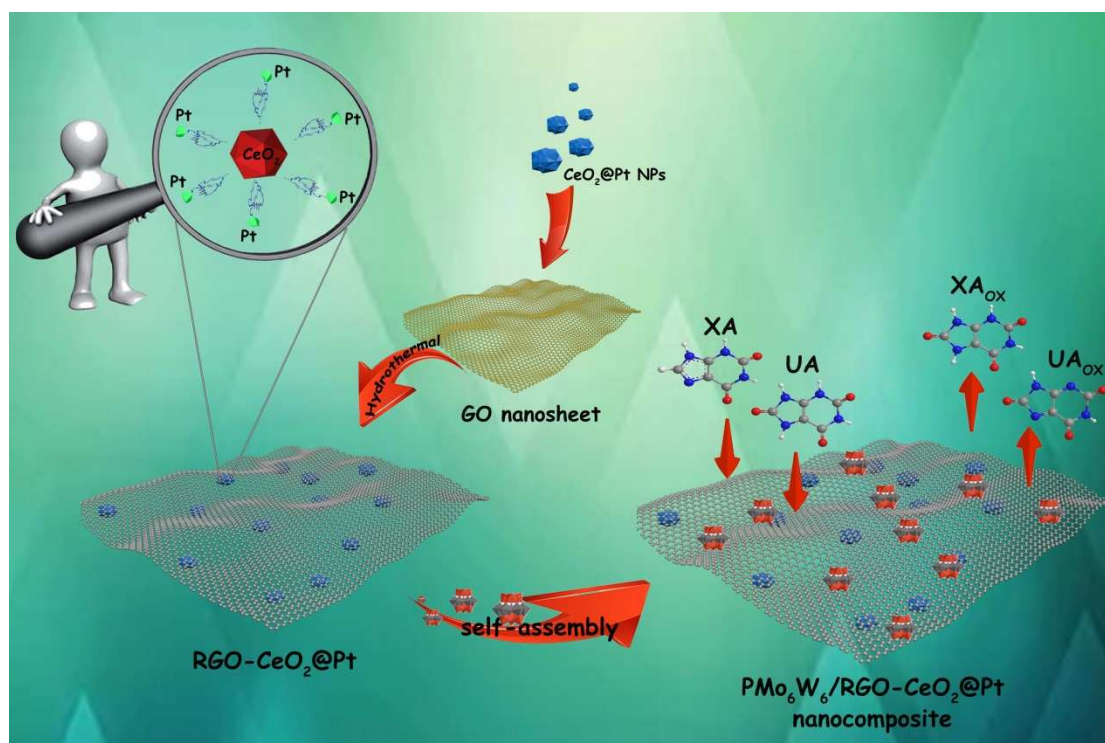
Revised Date: 8 January 2018

Accepted Date: 28 January 2018

Please cite this article as: D. Zhu, H. Ma, H. Pang, L. Tan, J. Jiao, T. Chen, Facile fabrication of a non-enzymatic nanocomposite of heteropolyacids and CeO₂@Pt alloy nanoparticles doped reduced graphene oxide and its application towards the simultaneous determination of xanthine and uric acid, *Electrochimica Acta* (2018), doi: 10.1016/j.electacta.2018.01.185.

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A new nanocomposite was fabricated by combining 12-heteropolyacids (PMo_6W_6) and CeO_2 decorated by Pt nanoparticles and RGO. Enhanced electrocatalytic activity and sensing performance were achieved due to the synergistic effect of components in nanocomposite. The proposed $\text{PMo}_6\text{W}_6/\text{RGO}-\text{CeO}_2@\text{Pt}$ is promising material for simultaneous or individual detection of xanthine and uric acid in practical application.

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