

## Accepted Manuscript

Title: Facile and controlled electrochemical route to three-dimensional hierarchical dendritic gold nanostructures

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PII: S0013-4686(13)01392-3  
DOI: <http://dx.doi.org/doi:10.1016/j.electacta.2013.07.123>  
Reference: EA 20916

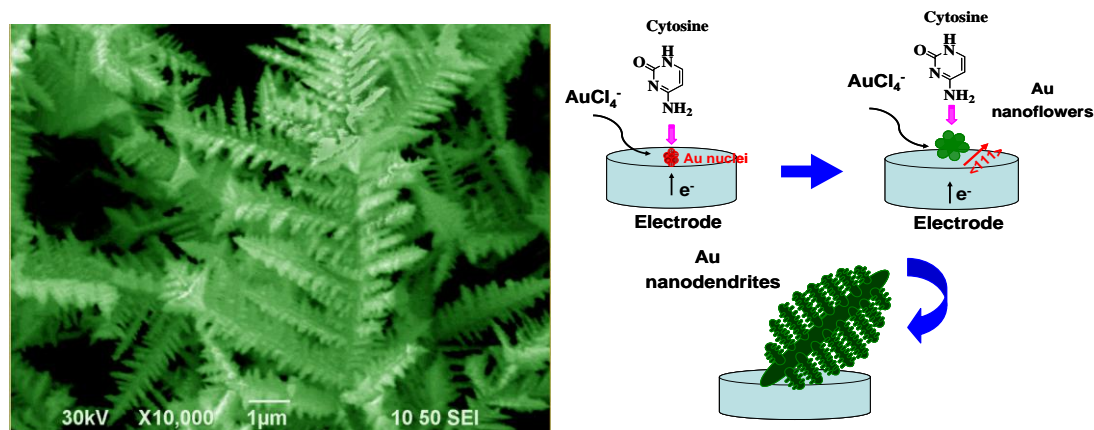
To appear in: *Electrochimica Acta*

Received date: 11-6-2013  
Revised date: 17-7-2013  
Accepted date: 17-7-2013

Please cite this article as: Z.-Y. Lv, A.-Q. Li, Y. Fei, Z. Li, J.-R. Chen, A.-J. Wang, J.-J. Feng, Facile and controlled electrochemical route to three-dimensional hierarchical dendritic gold nanostructures, *Electrochimica Acta* (2013), <http://dx.doi.org/10.1016/j.electacta.2013.07.123>

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## Graphical Abstract



In this work, Au hierarchical dendrites (HDs) were prepared by one-step electrodeposition with the assistance of cytosine. This approach is simple, fast, feasible, controllable and cost-effective, without any template or surfactant. The as-prepared Au nanocrystals were applied for SERS amplification detection of  $\text{Pb}^{2+}$  with high sensitivity.

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