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Authors: Yunlong Qi, Yue Cao, Xiaotong Meng, Jun Cao, Xiaowei Li, Qingli Hao, Wu Lei, Qihong Li, Jiao Li, Weimeng Si



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Facile synthesis of 3D sulfur/nitrogen co-doped graphene derived from graphene oxide hydrogel and the simultaneous determination of hydroquinone and catechol

*Yunlong Qi*¹, *Yue Cao*¹, *Xiaotong Meng*¹, *Jun Cao*¹, *Xiaowei Li*¹, *Qingli Hao*², *Wu Lei*², *Qihong Li*¹, *Jiao Li*¹, *Weimeng Si*¹, *

¹ Shandong University of Technology, Zibo, 255000, China

² Nanjing University of Science and Technology, Nanjing, 210094, China

* Corresponding Author. E-mail: siweimeng@foxmail.com (W. Si)

Highlights

- Graphene oxide (GO) hydrogel was induced by synergistic effect of pyrrole and Co^{2+} .
- S and N are doped in graphene framework with doping/reducing agent of L-Cysteine.
- 3D-structure are obtained via evaporation induced drying without freeze-drying.
- The 3D S/N-co-doped graphene show enhanced response for hydroquinone and catechol.

Abstract

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