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Authors: Zhisen Liu, Li Dehao, Zesheng Li, Zhenghui Liu, Zhiyuan Zhang



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Nitrogen-doped 3D Reduced Graphene Oxide/Polyaniline Composite as Active Material for Supercapacitor Electrodes

Zhisen Liu**, Li Dehao**, Zesheng Li*, Zhenghui Liu, Zhiyuan Zhang

* Corresponding authors at: Technology and Development Center for Petrochemical Pollution Control and Resources Utilization of Guangdong University, Guangdong university of Petrochemical Technology, Maoming, Guangdong 525000, China.

E-mail addresses: lzs_415@163.com (Z. Li), dehlee@163.com (D. Li) and lzs212@163.com (Z. Li).

Highlights

- A facile strategy for the fabrication 3D nitrogen-doped graphene is proposed.
- N-3D-rGO/PANI-B exhibited relatively good electrochemical properties in supercapacitor.
- β -MnO₂ was the good oxidant for preparing PANI composites.

Abstract

A facile strategy for the fabrication of a nitrogen-doped 3D reduced graphene oxide (N-3D-rGO) macroporous structure is proposed in this paper. The proposed strategy used polystyrene microspheres as the templates and melamine as the nitrogen source.

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