

Accepted Manuscript

Title: Synthesis of reduced graphene oxide intercalated ZnO quantum dots nanoballs for selective biosensing detection

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PII: S0169-4332(16)30609-2
DOI: <http://dx.doi.org/doi:10.1016/j.apsusc.2016.03.153>
Reference: APSUSC 32919

To appear in: *APSUSC*

Received date: 15-1-2016
Revised date: 17-3-2016
Accepted date: 19-3-2016

Please cite this article as: Jing Chen, Minggang Zhao, Yingchun Li, Sisi Fan, Longjiang Ding, Jingjing Liang, Shougang Chen, Synthesis of reduced graphene oxide intercalated ZnO quantum dots nanoballs for selective biosensing detection, *Applied Surface Science* <http://dx.doi.org/10.1016/j.apsusc.2016.03.153>

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Highlight:

A MWCNTs/rGO/ZnO quantum dots intercalation nanoballs decorated 3D hierarchical architecture is fabricated on Ni foam.

Large numbers of ZnO quantum dots are intercalated by rGO sheets to construct hierarchical nanoballs.

Improved mechanical, kinetic and electrochemical properties are found.

The strong interfacial effect makes the material can be used for selective detection of dopamine, ascorbic acid and uric acid.

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