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Title: Amperometric biosensor based on nanoporous nickel/boron-doped diamond film for electroanalysis of *L*-alanine

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PII: S0925-4005(14)00524-3
DOI: <http://dx.doi.org/doi:10.1016/j.snb.2014.05.005>
Reference: SNB 16879

To appear in: *Sensors and Actuators B*

Received date: 23-2-2014
Revised date: 25-4-2014
Accepted date: 1-5-2014

Please cite this article as: W. Dai, M. Li, H. Li, B. Yang, Amperometric biosensor based on nanoporous nickel/boron-doped diamond film for electroanalysis of *L*-alanine, *Sensors and Actuators B: Chemical* (2014), <http://dx.doi.org/10.1016/j.snb.2014.05.005>

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Highlights

1. Self-supporting BDD films were prepared by EA-CVD.
2. Nanoporous-Ni coatings were fabricated by ultrasound-assisted electrodeposition at the surface of BDD electrode.
3. The nanoporous Ni/BDD electrode showed the best electrochemical activity.
4. The proposed system provides ultrahigh sensitivity and good selectivity for the determination of L-alanine.

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