Accepted Manuscript

JOURNAL OF ENERGY CHEMISTRY http://www.journals.elsevier.com/ journal-of-energy-chemistry/

Cooperation of nitrogen-doping and catalysis to improve the Li-ion storage performance of lignin-based hard carbon

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 PII:
 S2095-4956(17)31098-7

 DOI:
 10.1016/j.jechem.2018.01.013

 Reference:
 JECHEM 520

To appear in: Journal of Energy Chemistry

Received date:	6 December 2017
Revised date:	19 January 2018
Accepted date:	20 January 2018

Please cite this article as: Zhewei Yang, Huajun Guo, Feifei Li, Xinhai Li, Zhixing Wang, Lizhi Cui, Jiexi Wang, Cooperation of nitrogen-doping and catalysis to improve the Li-ion storage performance of lignin-based hard carbon, *Journal of Energy Chemistry* (2018), doi: 10.1016/j.jechem.2018.01.013

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Highlights

- The melamine is successfully grafted onto lignin.
- The graphitic structure is embedded in hard carbon.
- Cooperation of N-doping and catalysis improves the electrochemical performance.

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