



Highly reversible lead-carbon battery anode with lead grafting on the carbon surface

Jian Yin , Nan Lin , Wenli Zhang , Zheqi Lin , Ziqing Zhang , Yue Wang , Jun Shi , Jinpeng Bao , Lin Haibo

PII: S2095-4956(17)31170-1  
DOI: [10.1016/j.jechem.2018.03.002](https://doi.org/10.1016/j.jechem.2018.03.002)  
Reference: JECHEM 558

To appear in: *Journal of Energy Chemistry*

Received date: 24 December 2017  
Revised date: 4 March 2018  
Accepted date: 5 March 2018

Please cite this article as: Jian Yin , Nan Lin , Wenli Zhang , Zheqi Lin , Ziqing Zhang , Yue Wang , Jun Shi , Jinpeng Bao , Lin Haibo , Highly reversible lead-carbon battery anode with lead grafting on the carbon surface, *Journal of Energy Chemistry* (2018), doi: [10.1016/j.jechem.2018.03.002](https://doi.org/10.1016/j.jechem.2018.03.002)

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## Highlights

- A novel carbon/lead (C/Pb) composite is synthesized by electroless plating.
- C/Pb composite can reduce the hydrogen evolution rate of lead-carbon anode.
- C/Pb composite strengthens the connection between carbon and lead.
- Porous structure of lead-carbon anode can be maintained by C/Pb composite.
- Highly reversible lead-carbon battery with C/Pb composite in anode is achieved

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