OAK RIDGE NATIONAL LABORATORY
Managed by UT-Battelle for the Department of Energy

Forming Gas Treatment of Lithium Ion Battery Anode Graphite Powders

Disclosure Number

201102631

Technology Summary

The invention takes a natural graphite and subjects it to a heat-treatment protocol that must include exposure to forming gas. The surface chemistry is optimized during the process for a lithium ion battery anode, and the maximum heat-treatment temperature required is reduced by more than 1000 °C. For this invention to provide the desired results, the natural graphite must have the correct specific properties and may have a surface coating of amorphous carbon.

Inventor

WOOD III, DAVID L

Materials Science and Technology Div

Licensing Contact

DETRANA, ALEXANDER G
UT-Battelle, LLC
Oak Ridge National Laboratory
Rm 139, Bldg 4500N, MS: 6196
1 Bethel Valley Road
Oak Ridge, TN 37831

Office Phone: (865) 576-9682
E-mail: DETRANAAG@ORNL.GOV

Note: The technology described above is an early stage opportunity. Licensing rights to this intellectual property may be limited or unavailable. Patent applications directed towards this invention may not have been filed with any patent office.