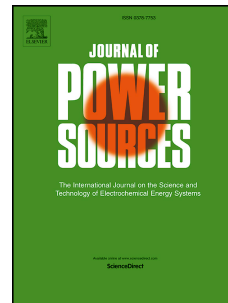


Accepted Manuscript

In-situ Raman Spectroscopy Mapping of Si Based Anode Material Lithiation

Junfeng Yang, Alexander Kraysberg, Yair Ein-Eli



PII: S0378-7753(15)00267-0

DOI: [10.1016/j.jpowsour.2015.02.044](https://doi.org/10.1016/j.jpowsour.2015.02.044)

Reference: POWER 20672

To appear in: *Journal of Power Sources*

Received Date: 16 December 2014

Revised Date: 6 February 2015

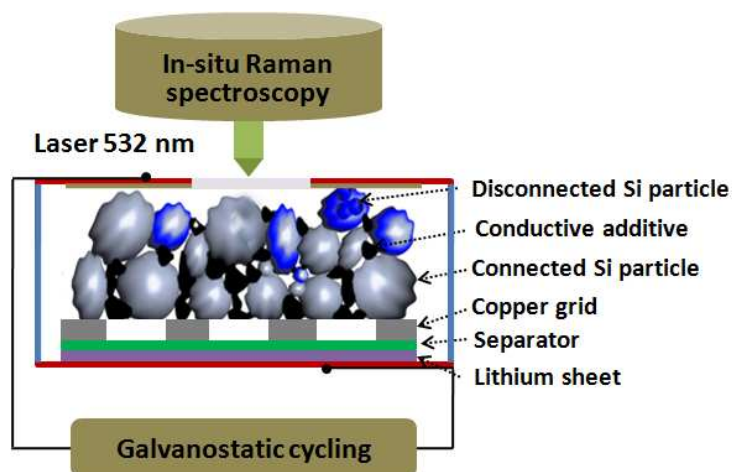
Accepted Date: 7 February 2015

Please cite this article as: J. Yang, A. Kraysberg, Y. Ein-Eli, *In-situ* Raman Spectroscopy Mapping of Si Based Anode Material Lithiation, *Journal of Power Sources* (2015), doi: 10.1016/j.jpowsour.2015.02.044.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Graphical Abstract

In-situ micro-Raman spectroscopy is used to investigate the influence of the copper current collector and Si active material loading on the connectivity of the anode particles. Micro-Raman spectroscopy offers a most useful method to map the initial connectivity of the active particles. The connectivity is found to be related to the current collector type and active material mass loading.



Download English Version:

<https://daneshyari.com/en/article/7733034>

Download Persian Version:

<https://daneshyari.com/article/7733034>

[Daneshyari.com](https://daneshyari.com)