

In Situ Raman Microscopy of a Single Graphite Microflake Electrode in a Li⁽⁺⁾-Containing Electrolyte



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(Roosevelt Rohan)

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Bibliogov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 24 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. Highly detailed Raman spectra from a single KS-44 graphite microflake electrode as a function of the applied potential have been collected *in situ* using a Raman microscope and a sealed spectroelectrochemical cell isolated from the laboratory environment. Correlations were found between the Raman spectral features and the various Li() intercalation stages while recording *in real time* Raman spectra during a linear potential scan from 0. 7 down ca. 0. 0V vs LiLi() at a rate of 0. 1 mVs in a 1M LiClO₄ solution in a 1: 1 (by volume) ethylene carbonate (EC): diethyl carbonate (DEC) mixture. In particular, clearly defined isosbestic points were observed for data collected in the potential range where the transition between dilute phase 1 and phase 4 of lithiated graphite is known to occur, i. e. 0. 157 E 0. 215 vs LiLi(). Statistical analysis of the spectroscopic data within this region made it possible to determine independently the fraction of each of the two phases present as a function of potential without relying on coulometric information and then predict, based on the proposed stoichiometry for the transition, a spectrally-derived voltammetric feature. This item ships from La Vergne, TN. Paperback.



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