



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

By -

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...



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