

Abstract Submitted
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Open-Source Programming for Automated Generation of Graphene Raman Spectral Maps¹ P. VENDOLA, M. BLADES, W. PIERRE, S. JEDLICKA, S.V. ROTKIN, Lehigh University — Raman microscopy is a useful tool for studying the structural characteristics of graphene deposited onto substrates. However, extracting useful information from the Raman spectra requires data processing and 2D map generation. An existing home-built confocal Raman microscope was optimized for graphene samples and programmed to automatically generate Raman spectral maps across a specified area. In particular, an open source data collection scheme was generated to allow the efficient collection and analysis of the Raman spectral data for future use.

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