



A Critical Review on Electron, Xray, Probe Microscopic Techniques for Analysis of Biomaterials and Nanomaterials

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Submission: July 11, 2024; **Published:** August 26, 2024

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Abstract

Here in is this article an attempt has been made to study various types of microscopes in detail. In this review paper we have discussed various types of microscopes which are classified as electron microscopes, x-ray microscope and probe microscopes. Also, the various subtypes of each of these microscopes have been presented in this paper. This paper focuses on the historical developments, Principles of operation, instrumentation, advantages and limitations of the various types and subtypes of the microscopes. The properties of the materials at nanoscale depend upon their size, shape and nature. As nanomaterials are invisible, we require various advanced characterization techniques to reveal their morphology. The various advanced characterization techniques required for the analysis of nanomaterials are thoroughly discussed in this paper.

Keywords: Electron microscope; Probe microscope; X-Ray microscope; Fluorescence microscope

Electron Microscope

This type of microscope uses beams of accelerated electrons as a source of illumination. The wavelength of an electron is

100,000 times shorter than the visible photons. Consequently, electron microscopes are having higher resolving power than

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