

X-ray diffraction (XRD) analysis was performed for the determination of orientation, crystallinity, lattice parameters, purity, and size of the nanoparticle. It is also used to conform the phase of the ...

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This document provides an introduction to the basics of x-ray diffraction (XRD), aimed primarily at scientists and engineers who are not experts in the field but who are interested in using ...

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XRD analysis enables researchers to identify unknown materials, monitor phase transformations, analyze crystal defects and optimize material properties for specific applications. ...

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