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- Featuring 541,500+ Entries, including 121,000+ Entries with Atomic Coordinates
- Combines Powder & Single Crystal Data
- Digitized Patterns
- Molecular Graphics
- Analyze Neutron, Electron, X-ray & Synchrotron Data

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The Powder Diffraction File™ (PDF®) is the only crystallographic database that is specifically designed for material identification and characterization. It is an analysis system that is comprised of crystallographic and diffraction data. These data with embedded data mining and analysis software have been through a quality and classification editorial review system.

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The only crystallographic database organization in the world with its Quality Management System ISO 9001:2015 certified by DEKRA.

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The PDF-4/Organics provides the best of both worlds by including single crystal and powder diffraction data together in a single, edited, and standardized database. We not only extract from the public literature like other databases, we add unique content by extracting patent data, combining single crystal and powder references, adding common inorganics and polymers, and continuously adding targeted materials through grants and research proposals.

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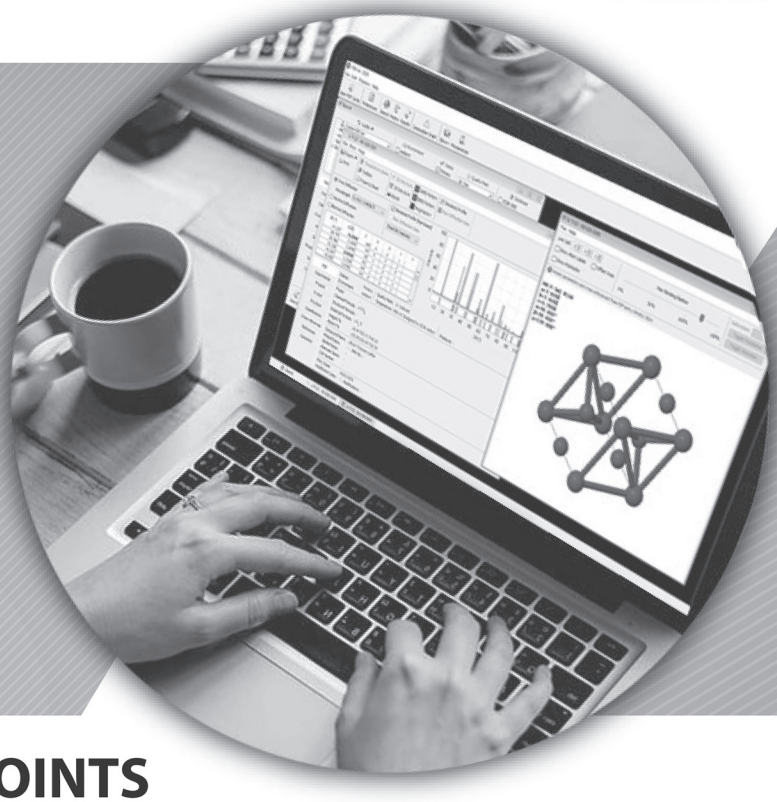

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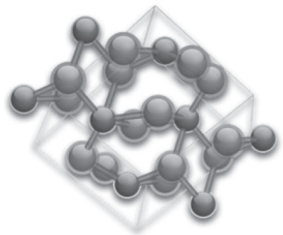

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ABOUT PDF-4+

PDF-4+ 2021 is designed to support automated quantitative analyses by providing key reference data required for these analyses. It also contains an array of tools that supplement conventional analyses, such as a full suite of data simulation programs enabling the analysis of neutron, electron, and synchrotron data, in addition to conventional X-ray data.

PDF-4+ features digitized patterns, molecular graphics, and atomic coordinates. These features incorporated into PDF-4+ enhance the ability to do quantitative analysis using third party software by any of three methods: Rietveld Analysis, Reference Intensity Ratio (RIR) Method, or Total Pattern Analysis.

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