2019 Powder Diffraction File™

Diffraction Data You Can Trust

ICDD databases are the only crystallographic databases in the world with quality marks and quality review processes that are ISO certified.

PDF-4+
Phase Identification and Quantitation
412,000+ Entries
311,200+ Atomic Coordinates

WebPDF-4+
Data on the Go
412,000+ Entries
311,200+ Atomic Coordinates

PDF-2
Phase Identification + Value
304,100+ Entries

PDF-4/Minerals
Comprehensive Mineral Collection
46,100+ Entries
37,000+ Atomic Coordinates

Powder Diffraction File™

893,400+ Entries

PDF-4/Organics
Solve Difficult Problems, Get Better Results
535,600+ Entries
115,500+ Atomic Coordinates

PDF-4/Axiom
Enhance Your Benchtop Performance
87,000+ Entries • 59,000+ Atomic Coordinates

Standardized Data

More Coverage

All Data Sets Evaluated For Quality

Reviewed, Edited and Corrected Prior To Publication

Targeted For Material Identification and Characterization

ICDD®
International Centre for Diffraction Data

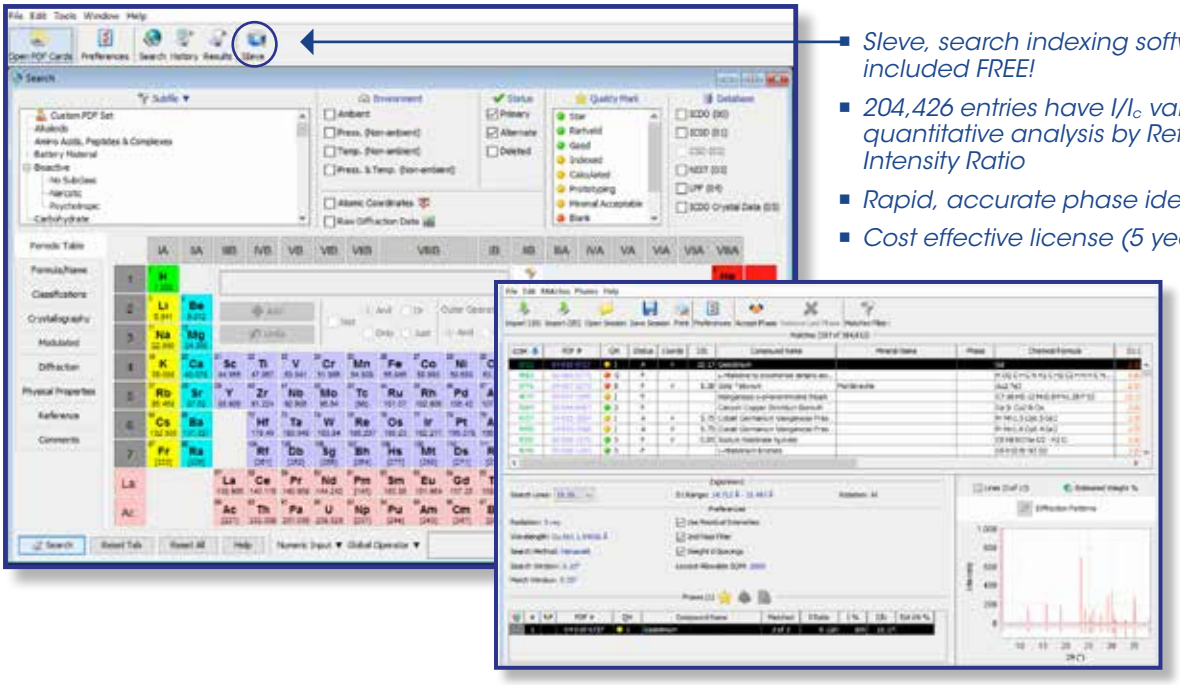
www.icdd.com

ISO 9001:2015 QUALITY MANAGEMENT SYSTEM CERTIFIED BY DEKRA CERT. NO. 110409.01

PDF-2 2019

Phase Identification + Value

Featuring over 304,100+ entries

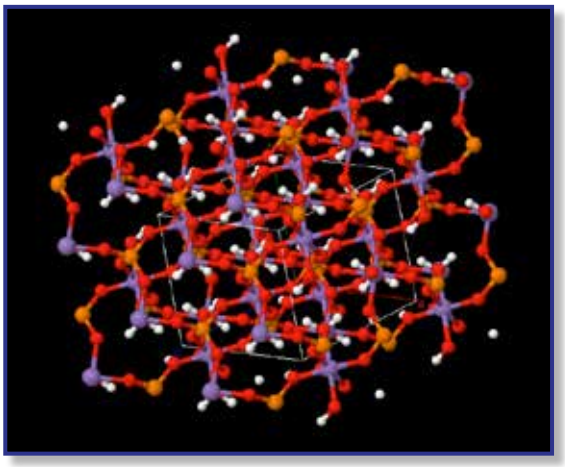


- *Sleve, search indexing software, included FREE!*
- *204,426 entries have I/I_c values for quantitative analysis by Reference Intensity Ratio*
- *Rapid, accurate phase identification*
- *Cost effective license (5 year)*

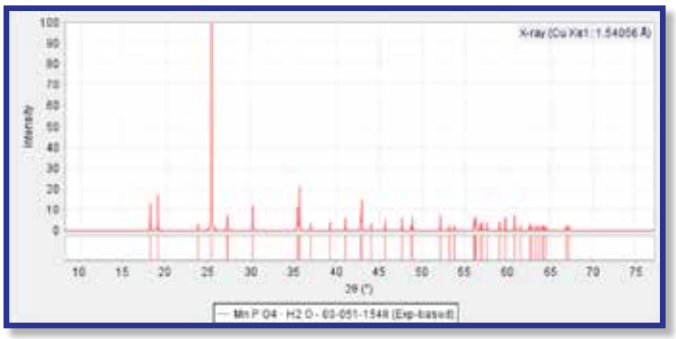
PDF-4+ 2019

Phase Identification and Quantitation

Featuring 412,000+ entries
311,200+ entries with atomic coordinates



For PDF-4+ "Data on the Go" ask ICDD about WebPDF-4+

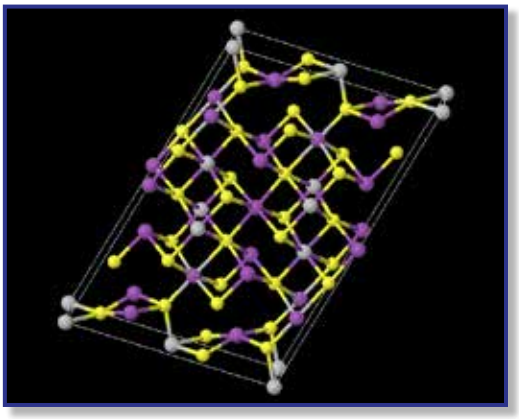


- *All entries have digital patterns for use in total pattern analysis*
- *311,225 entries with atomic coordinates*
- *312,395 entries have I/I_c values for quantitative analysis by Reference Intensity Ratio*
- *All entries are stored in a standardized format for easy search and interpretation*
- *All entries go through a rigorous editorial process to ensure quality*

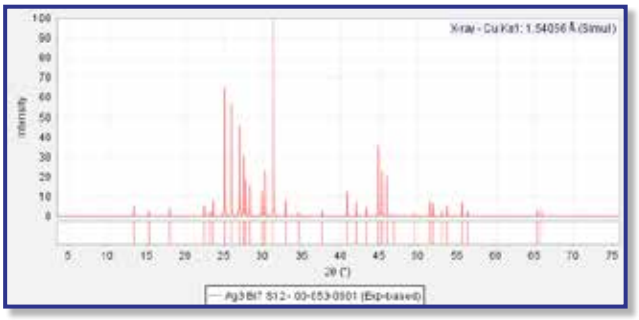
PDF-4/Minerals 2019

Comprehensive Mineral Collection

Featuring 46,100+ entries
37,000+ entries with atomic coordinates



- *All entries have digital patterns for use in total pattern analysis*
- *37,000+ entries with atomic coordinates*
- *34,936 entries have I/I_c values for quantitative analysis by Reference Intensity Ratio*
- *Classified by IMA designations*
- *A subset of the PDF-4+ database with all of the features and capabilities, targeted toward minerals and mineral related compounds*



PDF-4/Organics 2019

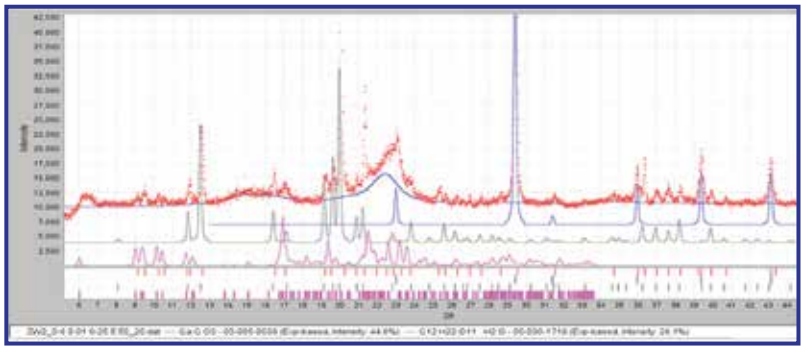
Solve Difficult Problems, Get Better Results

Featuring 535,600+ organic & organometallic compounds
115,500+ entries with atomic coordinates

- *Features the largest collection of pharmaceuticals, excipients and polymers*
- *Highly targeted collection with special focus on materials used in commercial and regulatory fields*
- *Enhanced identification for crystalline, nano and amorphous materials*
- *Trade names for over 9,000 bioactive/ pharmaceutical entries*
- *Integrated data mining software*
- *Sleve+ search-indexing software (included as an added value)*

Combines powder diffraction and crystal structure reference data

The four phase identification of the formulation of Lipitor uses references from a single crystal determination, an experimental powder pattern of cellulose Iβ, a calculated powder pattern and pattern extracted from the patent literature. The identification required an inorganic excipient, polymer excipient and two organic compounds. A variety of reference materials and sources enabled the identification.



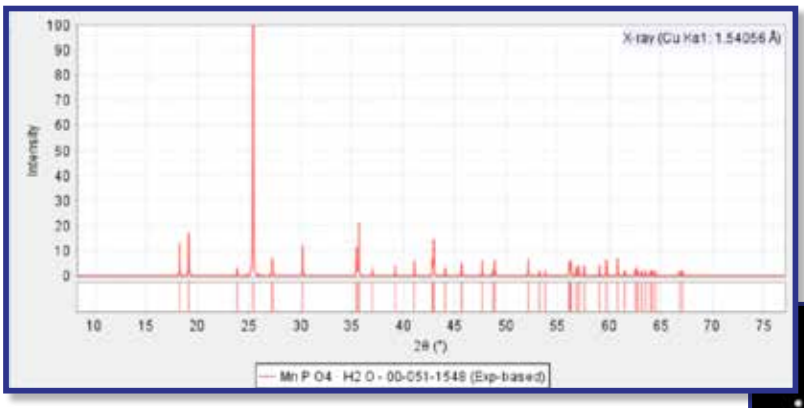
PDF-4/Axiom 2019

NEW!

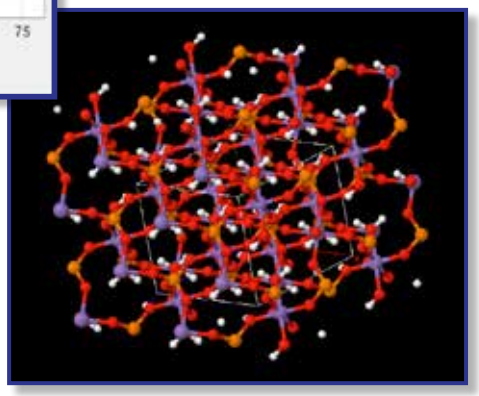
Enhance Your Benchtop Performance

Featuring over 87,000+ entries

59,000+ entries with access to atomic coordinates



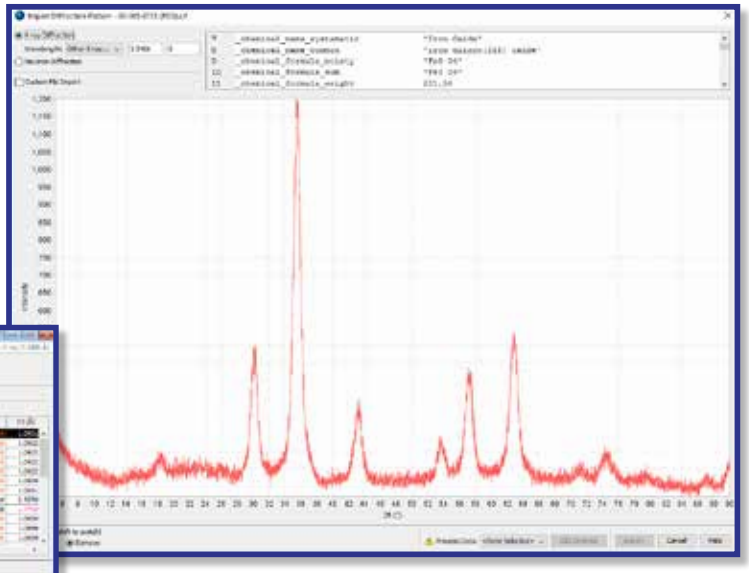
- *Data focused on ambient entries*
- *Fundamental mineral entries*
- *Low cost, (3) year license term*
- *No subscription*
- *Data mining and search-identification software are **not** included*
- *Requires diffraction equipment manufacturer or vendor software*

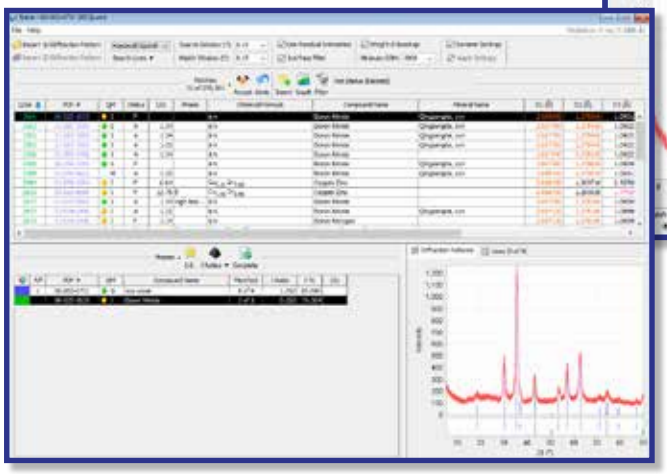


Sleve/Sleve+ 2019

Support Software for the PDF-2 and PDF-4

- *Match filter algorithms - better results, more accuracy*
- *Directly interfaces to all PDF databases for accurate filtering and analysis - full data mining*
- *Excels at the identification of low concentration phases*
- *Supports X-ray and synchrotron data*
- *Sleve **FREE** with PDF-2 2019*
- *Sleve+ **FREE** with PDF-4/Organics 2019*





30 Day trial of Sleve+ for FREE with PDF-4+ 2019 and PDF-4/Minerals 2019