JADE® PRO TOOLKIT



JADE Pro ships with an enhanced Toolkit. Toolkit includes a variety of utilities designed to work with JADE specifically for the market we serve. Toolkit is only available in JADE Pro and currently includes the following tools to extend your scientific inquiry.

NEW FEATURES

MDI-Taos (Oriented Clays)								-		×
File Options Custom	Series	Tools				Help	×	× 🖬 🖬	•	i O
Major Clay		Dimica (Illite) / Dismectite-2Gly [80-20, R1]						X		
01 - Dimica (Ilite) • 9.98							z	Occ.	Label	IL
Atoms of Fe 0.40	-	B001	A001 B002	8003 A012 R004	804603 80	80	9.98	3	0-1	
Atoms of K 0.70				01 - Dimica (Illite) z [Å]	03 - Dismectite-2Gly z [Å]		8.29	0.7	K+1	
Access of N. 0.70	-				6.6	3	0.1			

For Oriented Clays - ClaySim

Performs simulations and analyses of (00l)-patterns from oriented clays based



on the structure types introduced by R.C.Reynolds for single clays or two-component interstratified clays with editable structure and order parameters.

Microstructure Tool

Provides methods for the analysis of the residual stress and microstructure defects for various diffraction geometries and is applicable to cubic phases (fcc, bcc) following a profile fitting in JADE. Based on work by Prof. David Rafaja (Freiberg, Germany).

Laue Visualization

Laue simulations, stereograpic projections and alternative structure visualizations. This tool also exports multi-page Adobe PDF booklets.

XRD Digitizer

Similar to the JADE Pattern Digitizer found on our website (www.icdd.com), but with advanced image editing options to tweak any imperfections or remove artifacts from your image. Just take a picture of an XRD plot and this tool will convert it to a digital format that you can now work with in JADE.

MDI SizeStrain

Designed for crystallite size and micro-strain analysis using X-ray powder diffraction data. This Toolkit supports both Warren-Averbach and Williamson-Hall methods for crystallite size determination.

Area Detector Tool

Built to extract powder patterns from images obtained with flat area detectors, so that they can easily be analyzed in JADE.

Laue Visualization



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Area Detector Tool



Charge Flipper

For structure solution using the charge flipping method. Optionally, it can also use the popular program Superflip for the phasing step.

Solve Structure

An alternative tool for creating the input files required for the charge flipper. It provides flowbar-guidance for the structure solution from powder patterns.

Cluster Analysis

Offers hierarchical Dendrogram Clustering with Principal Component Analysis in addition to Fuzzy Clustering.





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