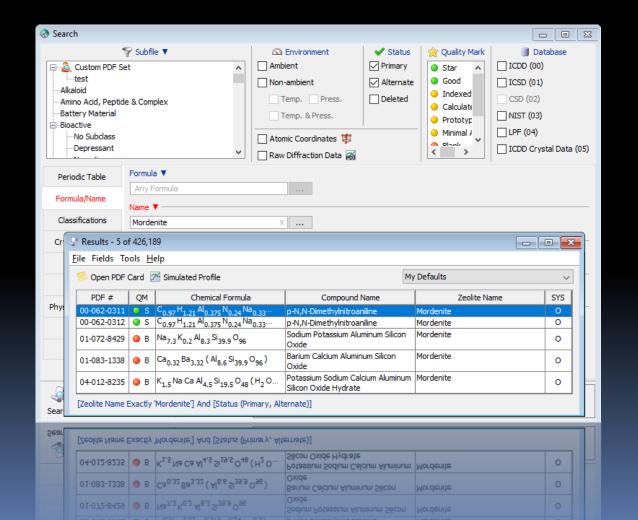
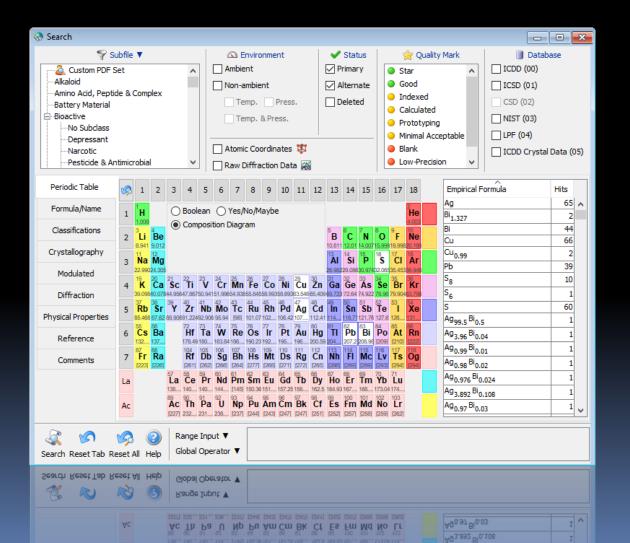


New Features for Release 2020

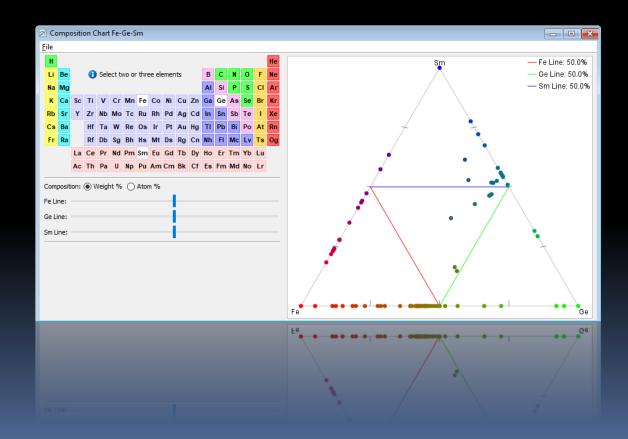
- New searches and display fields
 - Zeolite name
 - Molecular weight (g/mol)
 - Can be combined with Xray/neutron/electron diffraction phase ID (Sleve+) and XRF phase ID (Microanalysis)
- Searches can be cancelled at any time





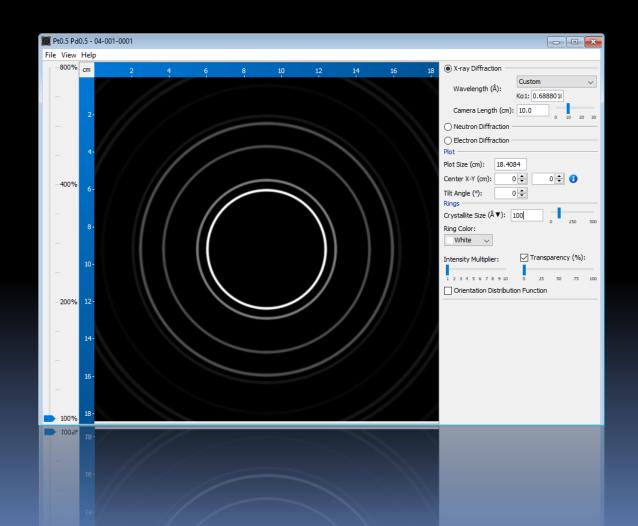
- Quinary sorting of composition diagram lists
 - A, B, C, D, and E compounds (pure elements)
 - A-B compounds (sorted by A content)
 - A-C compounds (sorted by A content)
 - A-D compounds (sorted by A content)
 - A-E compounds (sorted by A content)
 - B-C compounds (sorted by B content)
 - B-D compounds (sorted by B content)
 - B-E compounds (sorted by B content)
 - C-D compounds (sorted by C content)
 - C-E compounds (sorted by C content)
 - D-E compounds (sorted by D content)
 - A-B-C compounds (sorted by A content)
 - A-B-D compounds (sorted by A content)
 - A-B-E compounds (sorted by A content)
 - A-C-D compounds (sorted by A content)
 - A-C-E compounds (sorted by A content)
 - B-C-D compounds (sorted by B content)
 - B-C-E compounds (sorted by B content)
 - C-D-E compounds (sorted by C content)
 - A-B-C-D compounds (sorted by A content)
 - A-B-C-E compounds (sorted by A content)
 - A-B-D-E compounds (sorted by A content)
 - A-C-D-E compounds (sorted by A content)
 - B-C-D-E compounds (sorted by B content)
 - A-B-C-D-E compounds (sorted by A content)

- Composition graphs
 - Supports binary and ternary systems
 - Color-coded data points
 - Weight % or atomic %
 - User-defined divider lines
 - Tooltips show composition
 - Click to view PDF entries



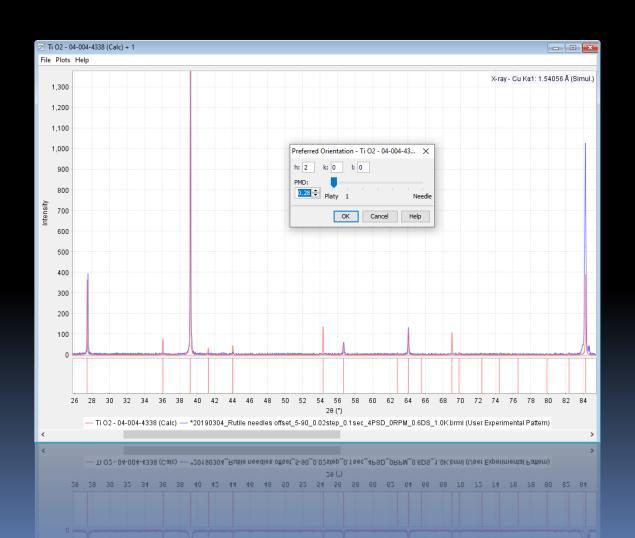
New Features for Simulations

New Features for Simulations



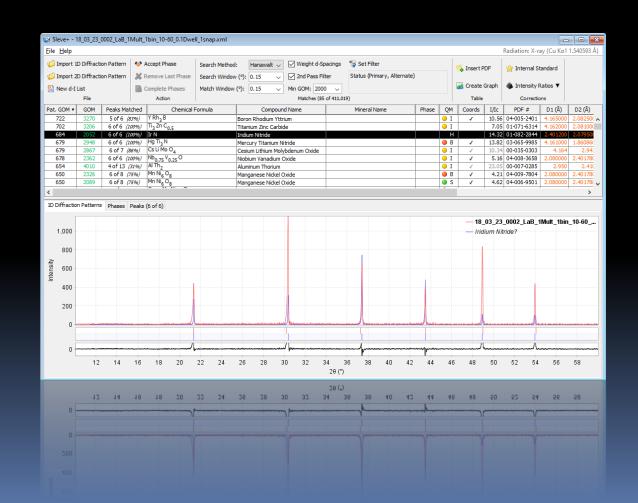
- Export SAED, EBSD, and ring pattern simulations as image files (electron diffraction subcommittee user group suggestion)
 - *.jpg
 - *.gif
 - *.png
 - *.tif

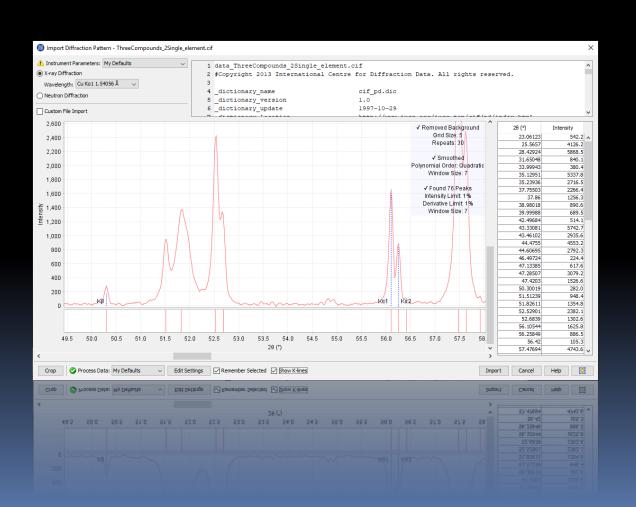
New Features for Simulations



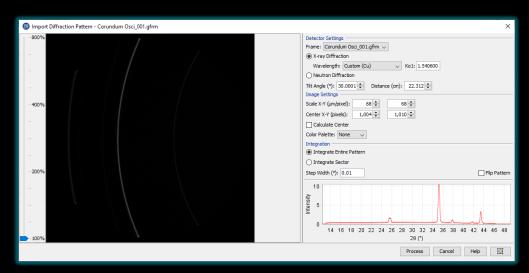
- Dynamic preferred orientation
- Visually compare experimental data with simulated diffraction patterns to determine the amount of preferred orientation.

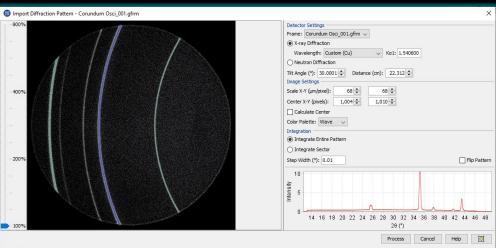
- New supported 1D diffraction pattern file types:
 - Proto *.xml files
 - Shimadzu *.raw files
 - MDI *.dif files (processed *.mdi)





- K-line cursor when processing experimental data
- Shows where a potential Kα2 line and Kβ line may exist in relation to the user-defined Kα1 line using the mouse cursor position

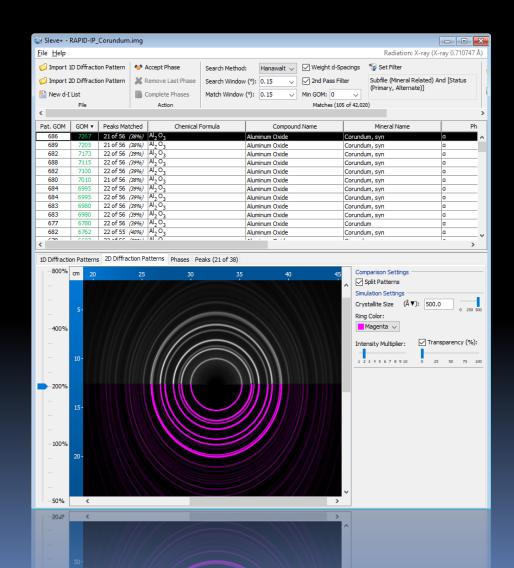




- Importing 2D diffraction patterns
 - User-defined color palette for better contrast
 - 2D-to-1D integration now supports multi-core processors

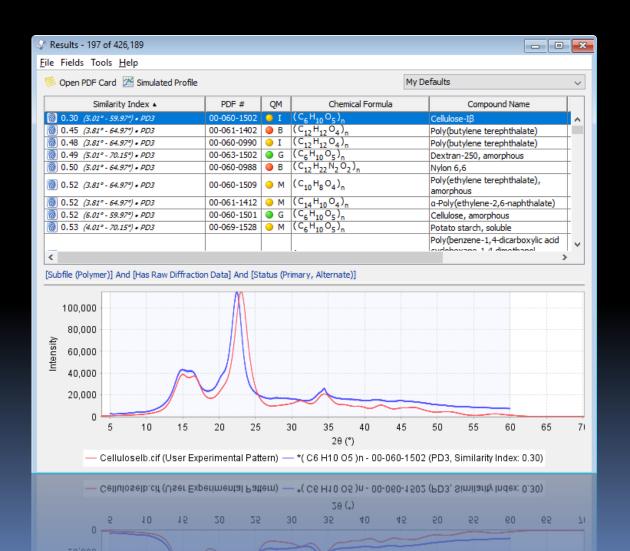
	Image Size	2019	2020
Bruker	2048 x 2048	10s	4s
DECTRIS Eiger	3110 x 3269	26s	10s
Rigaku	4600 x 2560	24s	12s

- Compare 2D diffraction pattern images directly in Sleve+
 - Split view for easier comparison
 - Dynamically change crystallite size of 2D simulations
 - Increase intensity brightness for 2D simulations
 - Support comparison of multiple 2D frames



Similarity indexes now support multi-core processors

	# Entries	2019	2020
Depressants	213	10s	3s
Clays	335	33s	20s
Polymers	1,336	25s	13s



New System-Wide Features

- More accurate d-spacing precision
- Custom program font size
 - 100%
 - 125%
 - 150%
 - 175%

