# PDF-4+ Tools and Searches







### PDF-4+ 2018

The PDF-4+ 2018 database is powered by our integrated search display software. PDF-4+ 2018 boasts 72 search selections coupled with 125 display fields resulting in a nearly limitless choice of data mining options. This quick tutorial will introduce you to the basics of PDF-4+ filters available to you to refine your search.

Getting Started: The Toolbar

Search Window: Overview of Search Classifications

**Data Mining Basics** 

Search Example

Preferences Module

PDF Data Card

### Launch Screen

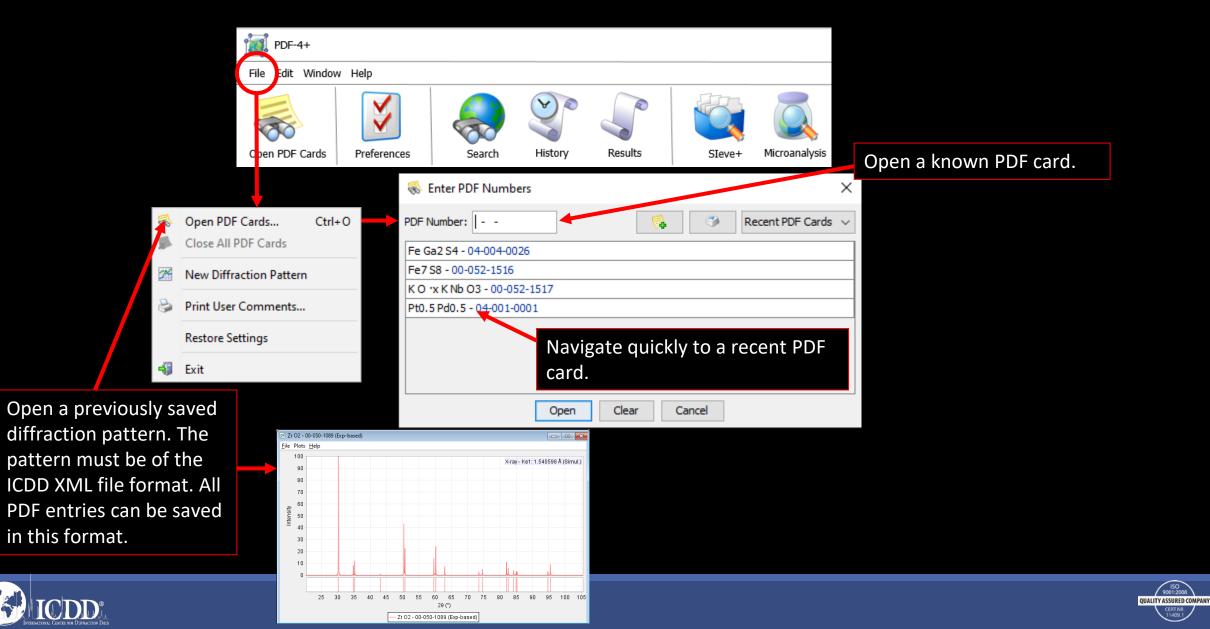
This will be the opening screen when you have correctly opened PDF-4+ 2018.

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	Modulated	4	22.990	<sup>24,305</sup>	<sup>21</sup> Sc	<sup>22</sup> Ti	<sup>23</sup> V	<sup>24</sup> Cr	<sup>25</sup> Mn	<sup>26</sup> Fe	<sup>27</sup> Co	<sup>28</sup> Ni	<sup>29</sup> Cu	<sup>30</sup> Zn	<sup>31</sup> Ga	28.086	30.974 33 As	32.065	35.453 35 Br	39.948	
y Search Menu 🔶	Diffraction	5	39.098 37 <b>Rb</b>	40.078 <sup>38</sup> Sr	44.956	47.867	50.941	51.996 42 Mo	54.938 43 TC	55.845 44 Ru	58.993	58.693	63.546	65.409	69.723	72.64	74.922	<sup>52</sup> Te	79.904 53	83.798	
	Physical Properties		85.468 55	87.62 56	88.906	91.224	92.906	95.94	[96]	101.07	102.906	106.42	107.868 79	112.41 80	114.818	118.71	121.76 83	127.6	126.904	131.293	_
	Comments	6	CS 132.905 87	Ba 137.327 88		178.49 104	180.948	183.84	Re 186.207	OS 190.23	192.217	Pt 195.078	Au 196.967	Hg 200.59	TI 204.383 113	207.2	Bi 208.98	P0 [209]	At [210]	Rn [222] 118	
	Comments	7	Fr [223]	<b>Ra</b> [226]	57	Rf [261] 58	Db [262] 59	Sg [266] 60	Bh [264] 61	Hs [277] 62	Mt [268] 63	Ds [271] 64	[272]	<sup>112</sup> Cn [285] 66	Nh [286] 67	FI [289] 68	MC [289] 69	[293] 70	71 TS [294]	Og [294]	
					La 138.906	<sup>00</sup> Ce 140.116	Pr 140.908	Nd 144.242	Pm [145]	Sm 150.36	151.964	Gd 157.25	65 Tb 158.925	Dy 162.5	Ho 164.93	Er 167.259	Tm 168.934	173.04	Lu 174.967		
					<sup>89</sup> Ac [227]	90 Th 232.038	91 Pa 231.036	92 U 238.029	93 Np [237]	94 Pu [244]	95 Am [243]	96 Cm [247]	97 Bk [247]	98 Cf [251]	99 Es [252]	100 Fm [257]	101 Md [258]	102 No [259]	103 Lr [262]		
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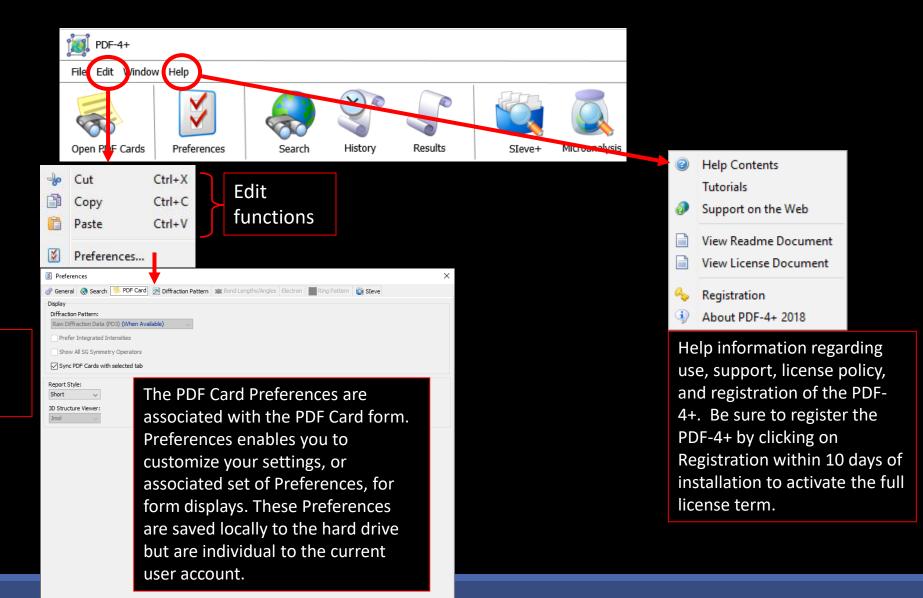


### **Getting Started**



ISO 9001:2008

### **Getting Started**

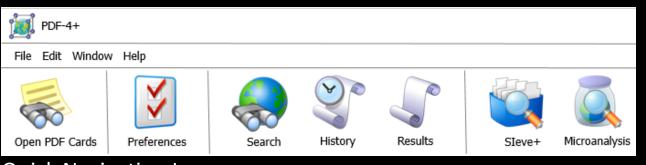


**OUALITY ASSURED COMPANY** 

Customize Wavelength, Intensity, Report Style, and many more features of the PDF-4+.



## Tool Bar



**Quick Navigation Icons** 



Select a PDF Card



Select Preferences Module



Open Search Window



Microanalysis





**Open Results Window** 







## Primary Search Menu

The Search Window displays nine tabs. Each tab features multiple search criteria to allow you to data mine the PDF-4+. Searching the PDF-4+ is an iterative process that allows you to input user-defined criteria, view the results, and combine additional criteria to refine your results.

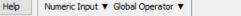
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Modulated		22.990	24.305	<sup>21</sup> Sc	<sup>22</sup> Ti	<sup>23</sup> V	<sup>24</sup> Cr	<sup>25</sup> Mn	<sup>26</sup> Fe	<sup>27</sup> Co	<sup>28</sup> Ni	<sup>29</sup> Cu	<sup>30</sup> Zn	26.962 31 Ga	28.086	30.974	32.065	35.453 35 Br	39.948	
Diffraction	4	39.098	40.078	44.956	47.867	50.941	51.996 42	54.938	55.845 44	58.993 45	58.693	63.546 47	65.409 48	69.723	72.64	A5 74.922	78.96	79.904 53	83.798	
Physical Properties	5	85.468	<b>Sr</b> 87.62	Y 88.906	2r 91.224	92.906	<b>Mo</b> 95.94	TC [98]	<b>Ru</b> 101.07	<b>Rh</b> 102.908	<b>Pd</b> 106.42	<b>Ag</b> 107.868	Cd 112.41	<b>In</b> 114.818	<b>Sn</b> 118.71	<b>Sb</b> 121.76	Te 127.6	126.904	<b>Xe</b> 131.293	
Reference	6	55 Cs 132.905	56 Ba 137.327		72 Hf 178.49	<sup>73</sup> Ta 180.948	<sup>74</sup> W 183.84	75 Re 186.207	76 Os 190.23	77 Ir 192.217	78 Pt 195.078	<sup>79</sup> Au 196.967	80 Hg 200.59	81 <b>TI</b> 204.383	<sup>82</sup> Pb 207.2	<sup>83</sup> Bi 208.98	<sup>84</sup> Po [209]	85 At [210]	88 Rn [222]	
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		1223	_	La	<sup>58</sup> Ce	<sup>59</sup> Pr	<sup>60</sup> Nd	<sup>61</sup> Pm	<sup>62</sup> Sm	<sup>63</sup> Eu	<sup>64</sup> Gd	<sup>65</sup> Tb	<sup>66</sup> Dy	<sup>67</sup> Ho	<sup>68</sup> Er	<sup>69</sup> Tm	<sup>70</sup> Yb	<sup>71</sup> Lu	1234	
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### Search Window Subfiles/Database Filters

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### Search Window Subfiles/Database Filters

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#### Filters:

Subfile – select filters related to assigned subfiles/subclass.

Environment – select filters related to the environment (especially temperature and pressure).

Atomic Coordinates – filters based on entries that contain atomic coordinates or a cross-reference to an entry with atomic coordinates.

Raw Diffraction Data (PD3) – filters based on entries with high quality raw experimental data that can consist of nanocrystalline materials, semi-crystalline materials, or amorphous materials.

Status – select filters based on the status of the pattern, which can be Active, Deleted, Alternate, Rejected or Primary.

Quality Mark (QM) – select filters related to the quality evaluation assigned to the data.

Database – search the entire database or select the data entry source (i.e., ICDD (00) – ICDD's experimental patterns).





### Search Window Periodic Table Filters

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Physical Properties	5	37 Rb 85.468	<sup>38</sup> Sr 87.62	<sup>39</sup> Y 88.906	40 Zr 91.224	41 ND 92.906	42 Mo 95.94	<sup>43</sup> Tc [98]	45 Rh 101.07 102.906	46 Pd 106.42	47 Ag 107.888	48 Cd 112.41	49 <b>In</b> 114.818	50 <b>Sn</b> 118.71	51 <b>Sb</b> 121.78	52 Te		54 Xe 131.293			
Reference	6	55 Cs 132.905	<sup>56</sup> Ba		<sup>72</sup> Hf	<sup>73</sup> Ta	<sup>74</sup> W	75 Re	<b>Os</b> <sup>77</sup> Ir	<sup>78</sup> Pt	<sup>79</sup> Au	<sup>80</sup> Hg	<sup>81</sup> TI	<sup>82</sup> Pb	Bi	<sup>84</sup> Pc		88 Rn 12221			
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☑ Search R	Reset Tab	[223]	[226] Reset All	57 La 138.906 89 Ac [227]	(261) 58 Ce 140.116 90 Th 232.038	[262] 59 Pr 140.908 91 Pa 231.036	1288 60 Nd 144.242 92 U 238.029 238.029	(145) (1	[277]         [268] <sup>12</sup> Sm <sup>63</sup> Eu           150.36         151.964 <sup>14</sup> Pu <sup>95</sup> Am           [244]         [243]	[271] <sup>64</sup> Gd 157.25 <sup>96</sup> Cm [247]	[272] 65 <b>Tb</b> 158.925 97 <b>Bk</b> [247]	(285) 66 Dy 162.5 98 Cf [251]	(286) 67 Ho 164.93 99 Es (252)	(289) 68 167.259 100 Fm (257)	<sup>89</sup> Tm 168.934 <sup>101</sup> Md [258]	70 70 173.0 102 NC [259	71 Lu 174.967 103 Lr	[294]			

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### Search Window Formula/Name

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Refine your search by selecting filters based upon the elements in a material.

**Chemical Formula** – filters based on the molecular formula.

Empirical Formula – filters on an element that has a particular atom count as expressed in the formula.

Structural Formula – filters on the chemical Formula that shows how atoms are bonded to one another in a molecule.

Number of Elements – filters on the total number of unique elements in a chemical formula.

**Composition** – filters on the weight percent or atomic percent of the formula.

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### Search Window Formula/Name

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### Search Window Classifications

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✓ Subfile ▼         ✓ Custom PDF Set         ✓ Alkaloid         ✓ Alkaloid         ✓ Battery Material         → Bioactive         ✓ No Subclass         ✓ Depressant         ✓ Narcotic         ✓ Pesticide & Antimicrobial	Environment     Ambient     Press. (Non-ambient)     Temp. (Non-ambient)     Press. & Temp. (Non-ambient)     Press. & Temp. (Non-ambient)     Atomic Coordinates      Raw Diffraction Data      Raw	<ul> <li>Status</li> <li>Primary</li> <li>Alternate</li> <li>Deleted</li> </ul>	Quality Mark         Star         Good         Indexed         Calculated         Prototyping         Minimal Acceptable         Blank         Low-Precision	Database     ICDD (00)     ICSD (01)     CSD (02)     NIST (03)     LPF (04)     ICDD Crystal Data (05)							
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<ul> <li>Zeolite Classification – filters based on the zeolite classification.</li> <li>Mineral Classification – filters based on the mineral classification.</li> </ul>											
Organic Functional Group – filters based on organic functional group.											





### Pearson Symbol Code

🐼 Search				
✓ Subfile ▼         ✓ Custom PDF Set         ✓ Alkaloid         ✓ Amino Acid, Peptide & Complex         ✓ Battery Material         → Bioactive         ✓ No Subclass         ✓ Depressant         ✓ Narcotic         ✓ Pesticide & Antimicrobial	Environment     Ambient     Ambient     Press. (Non-ambient)     Temp. (Non-ambient)     Press. & Temp. (Non-ambient)     Atomic Coordinates	Status Primary Alternate Deleted	Quality Mark         Star         Good         Indexed         Calculated         Prototyping         Minimal Acceptable         Blank         Low-Precision	Database     ICDD (00)     ICSD (01)     CSD (02)     NIST (03)     LPF (04)     ICDD Crystal Data (05)
Periodic Table       Mineral Classification ▼         Formula/Name	Raw Diffraction Data Set Zeolite Classification ▼ ABW - Li-A(BW) ACO - ACP-1 AEI - AIPO4-18 AEL - AIPO4-11 AEN - AIPO4-11 AEN - AIPO4-8 AFG - Afghanite AFI - AIPO4-5 AFN - AIPO4-5 AFN - AIPO14 AFO - AIPO4-41 AFO - AIPO4-01		<ul> <li>Organic Functional Grou</li> <li>&gt;4_Hetero_atoms_in_r</li> <li>&gt;5_fused_rings</li> <li>&gt;9_membered_ring</li> <li>1_Hetero_atom_in_ring</li> <li>1,2_dioneO=C-C=</li> <li>2_fused_rings</li> <li>2_Hetero_atoms_in_ring</li> <li>3_fused_rings</li> <li>3_Hetero_atoms_in_ring</li> <li>3_membered_ring</li> </ul>	ring(s) ∧ g(s) =O ng(s)
Reference     With Hydrogen       Comments     Prototype Structure       Any Prototype Structure       Formula Type (ANX)				h and without Hydrog Pearson Symbol Code.
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#### Crystallography

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Alkaloid	Press. (Non-ambient)	Alternate	Good	ICSD (01)
Amino Acid, Peptide & Complex Battery Material	Temp. (Non-ambient)	Deleted	<ul> <li>Indexed</li> <li>Coloridated</li> </ul>	CSD (02)
Bioactive	Press. & Temp. (Non-ambient)		<ul> <li>Calculated</li> <li>Prototyping</li> </ul>	NIST (03)
No Subclass Depressant			Minimal Acceptable	LPF (04)
Narcotic	🗌 Atomic Coordinates 🗱		Blank	ICDD Crystal Data (05)
Pesticide & Antimicrobial	🗌 Raw Diffraction Data 📸		● Low-Precision ¥	
Periodic Table Crystal System	Crystal (Symmetry Allowed) 🔻	Atomi	ic Environment Type	
Triclinic (Anorthic) Rhombohedral	Centrosymmetric		mbol Elements	
Formula/Name Monoclinic Hexagonal	Non-centrosymmetric:	1#a 2#a	Ac Ac Ag	
Classifications Orthorhombic Cubic	Enantiomorphic Pyro / Piezo		Al	
Crystallography	Optical Activity Piezo (2nd H	Harm.) 3#a 3#b	✓ Am Ar ✓	
Modulated Space Group V				
Diffraction Space Group Symbol				
Physical Properties Crystal Data Axis (Å)		Axial Ratio	Volume	
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Reference Author's Cell b: Value ESD	β: Value ESD	a/b: Value	ESD	
Comments C: Value ESD	Y: Value ESD	c/b: Value	ESD	
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#### Crystal Data

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	Subfile V Custom PDF Set Alkaloid Mino Acid, Peptide & Complex Battery Material Bioactive No Subclass Depressant Narcotic Pesticide & Antimicrobial	Environme     Ambient     Press. (Non-ambien     Temp. (Non-ambien     Press. & Temp. (No     Atomic Coordinates     Raw Diffraction Dai		Quality Mark         Star         Good         Indexed         Calculated         Prototyping         Minimal Acceptable         Blank         Low-Precision	<ul> <li>Database</li> <li>ICDD (00)</li> <li>ICSD (01)</li> <li>CSD (02)</li> <li>NIST (03)</li> <li>LPF (04)</li> <li>ICDD Crystal Data (05)</li> </ul>
Filters based on the space group symbol according to nomenclature defined by the author.	Formula/Name     Monoclinic       Classifications     Orthorhombic       Crystallography     Tetragonal       Modulated     Space Group	Rhombohedral     Crystal (Symmetry All       Rhombohedral     Centrosymmetric       Hexagonal     Non-centrosymme       Cubic     Enantiomorphic       Optical Activity	owed) ▼ Atom Sy tric: □ Pyro / Piezo (p) 2#b 3#a 3#b	Ag Al Am	
Filters based on the superspace group symbol (for modulated structures only).	Diffraction Space Group Syn Physical Properties Reference Superspace Group Comments Contains Fragme Exactly Not	umber a: Value up Symbol p. Value ents V: Value	Filters based on the international space gr numbers (1-230). Filters based on the aspect symbol according to nomenclature defined by the author.	Volume       ESD	ESD
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### Search Window Crystal Data

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Periodic Table Formula/Name Classifications Crystallography Modulated Diffraction	Monoclinic	Rhombohedral Hexagonal Cubic	Crystal (Sy Centro	ymmetry Allow symmetric entrosymmetric antiomorphic	ed) 🔻			Environment Type abol Elements Ac Ag Al Am Ar			
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#### **Reduced Cell**

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	Custom PDF S Alkaloid Manino Acid, Peptic Battery Material Bioactive No Subclass Depressant Narcotic Pesticide & An	de & Complex	*	Environment     Ambient     Press. (Non-ambient)     Temp. (Non-ambient)     Press. & Temp. (Non-ambient)     Atomic Coordinates      Raw Diffraction Data	✓ Primary       ● Star       □ ICC         ✓ Alternate       ● Good       □ ICC         □ Deleted       ● Indexed       □ CSC         ● Prototyping       ● Minimal Acceptable       □ LPF		<ul> <li>Database</li> <li>ICDD (00)</li> <li>ICSD (01)</li> <li>CSD (02)</li> <li>NIST (03)</li> <li>LPF (04)</li> <li>ICDD Crystal Data (05)</li> </ul>
	Periodic Table Formula/Name Classifications Crystallography Modulated Diffraction	Crystal System Triclinic (Anorth Monoclinic Orthorhombic Tetragonal Space Group ▼ Space Group Symbol	Hexagonal	Crystal (Symmetry Allowed) ▼ Crystal (Symmetric Centrosymmetric Enantiomorphic Pyro / Pie: Optical Activity Piezo (2nd)	Sy 1#a 2#a 2#b 3#a	Ag Al Am	
reduced cell is a que, primitive cell	Physical Properties	Crystal Data Reduced Cell	Axis (Å) a: Value ESD	a: Value ESD	Volume Value	ESD	
ed on the three rtest lattice	Reference Comments	Author's Cell Supercell/Subcell	b: Value ESD c: Value ESD		Filters ba	ased on the volume	of the reduced cell.
nslations.	🥳 Search	Reset Tab Rese		on the lengths of the three umeric Input ▼ Global Operator ▼	e axes of the	reduced cell.	





#### Author's Cell

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	le & Complex		Status Primary Alternate Deleted	Quality Mark         Star         Good         Indexed         Calculated         Prototyping         Minimal Acceptable         Blank         Low-Precision	Database     ICDD (00)     ICSD (01)     CSD (02)     NIST (03)     LPF (04)     ICDD Crystal Data (05)	
Classifications Crystallography Modulated	Monoclinic       Hex       Igonal         Orthorhombic       Cub       Cub         Tetragonal       Space Group ▼	Non-centrosymmetric:  Non-centrosymmetric:  Pyro / Pie:  Optical Activity Piezo (2nd	<sup>zo (p)</sup> Author's	r's Crystal System: Triclinic Lattice Centering: Primitiv Cell Type: Crystal	e ~	
Physical Properties Reference	Crystal Data Reduced Cell Author's Cell	for Search /alue ESD	Axial Ratio c/a: Value	Volume Volume	ESD	sed on the volume thor's cell.
Comments	Supercell/Subcell b: Value ES c: Value ES Filters based on the lengths	D V: Value ESD	a/b: Value c/b: Value	ESD Molecular/f.		
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#### Supercell/Subcell

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This search uses derivative lattices (including superlattices and sublattices) generated from the given primary lattices. The volume of superlattices  Q  can be between 1 and 9 and volume of	~	Atomic Coordinates  Raw Diffraction Data		<ul> <li>Calculated</li> <li>Prototyping</li> <li>Minimal Acceptable</li> <li>Blank</li> <li>Low-Precision </li> </ul>	<ul> <li>CSD (02)</li> <li>NIST (03)</li> <li>LPF (04)</li> <li>ICDD Crystal Data (05)</li> </ul>	
sublattices  X  can be changed from 1/1 to 1/9. Derivative matrices are generated based on the selected volumes. Multiplying derivative matrices by the primary lattices gives derivative lattices, which are then transformed to reduced lattices for searching.	Crystal (Symmetry Allowed) ▼       Atomic Environment Type         Centrosymmetric       Symbol       Elements         Non-centrosymmetric:       1#a       Ac         Enantiomorphic       Pyro / Piezo (p)       2#b         Optical Activity       Piezo (2nd Harm.)       3#b					
Diffraction Space Group Sy Physical Properties Reduced Cell	Axis (Å) 🔻					
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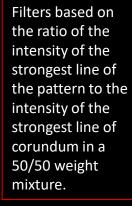
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### Search Window Diffraction

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Diffraction Physical Properties	Value ESD R-factor ▼	of merit generally used is that reported by Smith &			
Reference Comments	Value     ESD       Smith-Snyder Figure of Merit        Value     ESD	Snyder, which indicates the completeness &			
	Temperature of Data Collection (K) ▼       Value       ESD	accuracy of measured interplanar spacings.			
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### Search Window Physical Properties

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2	Periodic Table Formula/Name	Melting Point (K) ▼       Value   ESD			1	,	<ul> <li>Kelvin (K)</li> <li>Celsius (°C)</li> </ul>
n	Classifications	Density (g/cm³) ▼					Fahrenheit (°F)
sity	Crystallography	Measured Density Calculated Densi	ity 🔽 Structural Density				Not
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#### References

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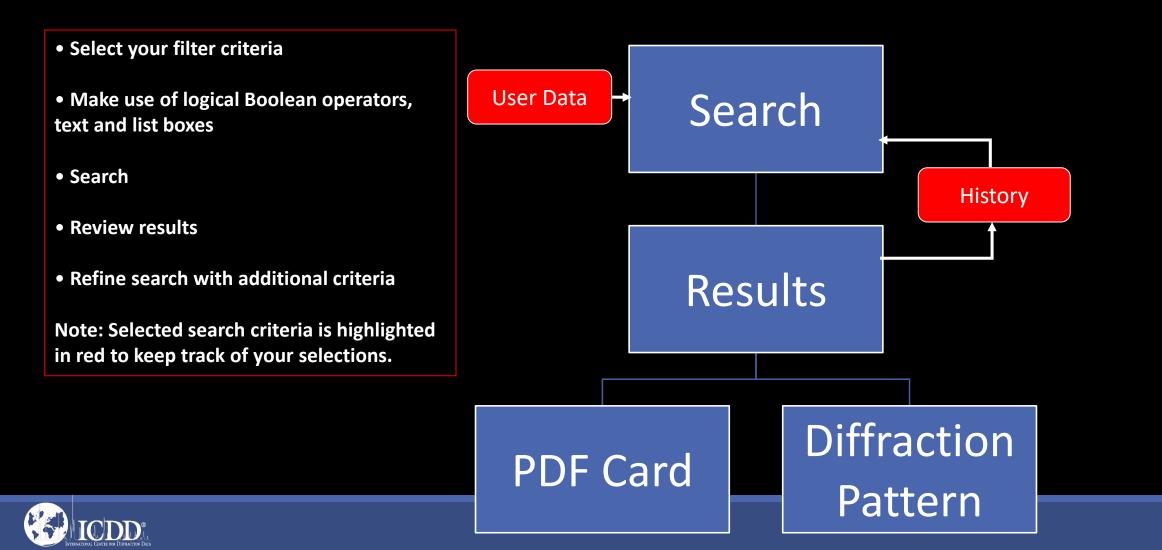
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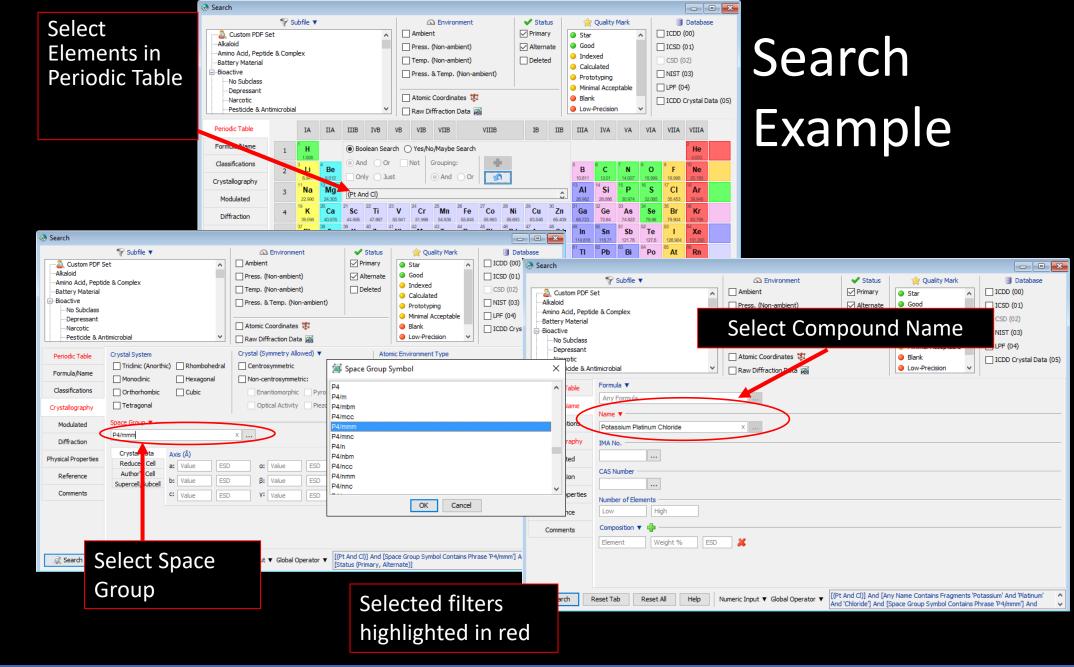
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### Data Mining Basics









### Choose fields to be displayed in results

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#### File Fields Set: My Defaults Tools Help

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00-009-0367	0 I	K <sub>2</sub> Pt Cl <sub>4</sub>	Pota Search Results	6.940000	3.160000	3.550000	Т	<ul> <li>✓</li> </ul>
01-073-1506	0 I	K <sub>2</sub> ( Pt Cl <sub>4</sub> )	Petassium Platinum Chloride	6.990000	3.169250	3.555730	Т	<ul> <li>✓</li> </ul>
04-006-6128	<u></u> Θ Ρ	K <sub>2</sub> Pt Cl <sub>4</sub>	Potassium Platinum Chloride	7.024000	3.183270	3.571050	т	<ul> <li>✓</li> </ul>
04-007-2797	🔵 S	K <sub>2</sub> Pt Cl <sub>4</sub>	Potassium Platinum Chloride	7.023000	3.183810	3.571940	т	<ul> <li>✓</li> </ul>
04-007-5356	0 I	K2 Pt Cl4	Potassium Platinum Chloride	7.025000	3.182100	3.569270	т	<ul> <li>✓</li> </ul>
04-007-7303	🔵 S	K2 Pt Cl4	Potassium Platinum Chloride	6.996100	3.159080	3.540590	т	<ul><li>✓</li></ul>
04-007-7304	🔵 S	K2 Pt Cl4	Potassium Platinum Chloride	6.981300	3.156210	3.538480	т	<ul> <li>✓</li> </ul>
04-009-8290	🔴 B	K <sub>2</sub> Pt Cl <sub>4</sub>	Potassium Platinum Chloride	7.024000	3.183270	3.571050	т	<ul> <li>✓</li> </ul>
04-013-8855	🔴 B	K2 Pt ( C N )4 Cl0.32 ( H2 O )2.6	Potassium Platinum Chloride Cyanid	9.866000	4.412210	6.976320	Т	1

[(Pt And Cl)] And [Any Name Contains Fragments 'Potassium' And 'Platinum' And 'Chloride'] And [Space Group Symbol Contains Phrase 'P4/mmm'] And [Status (Primary, Alternate)]

Search Filters

Double-click on a PDF number to view the entire PDF Card

Search Results

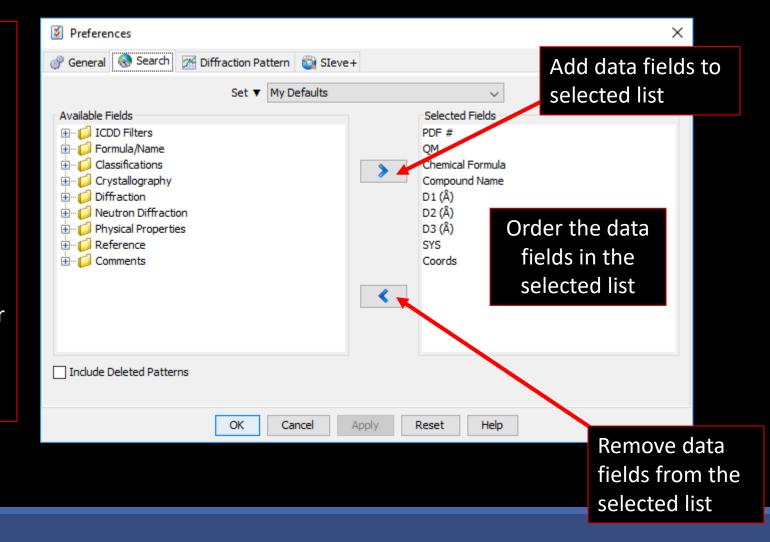






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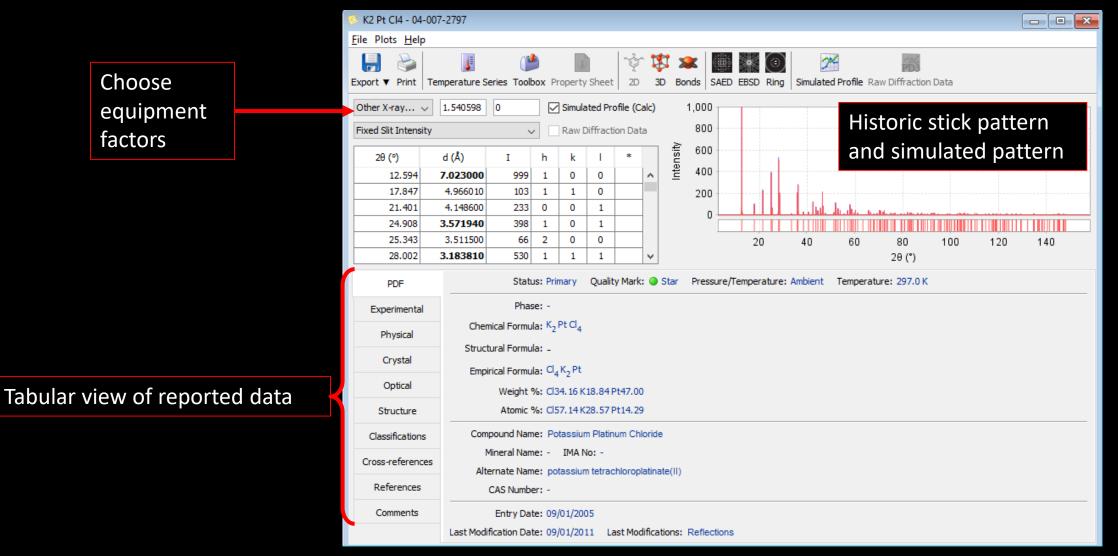
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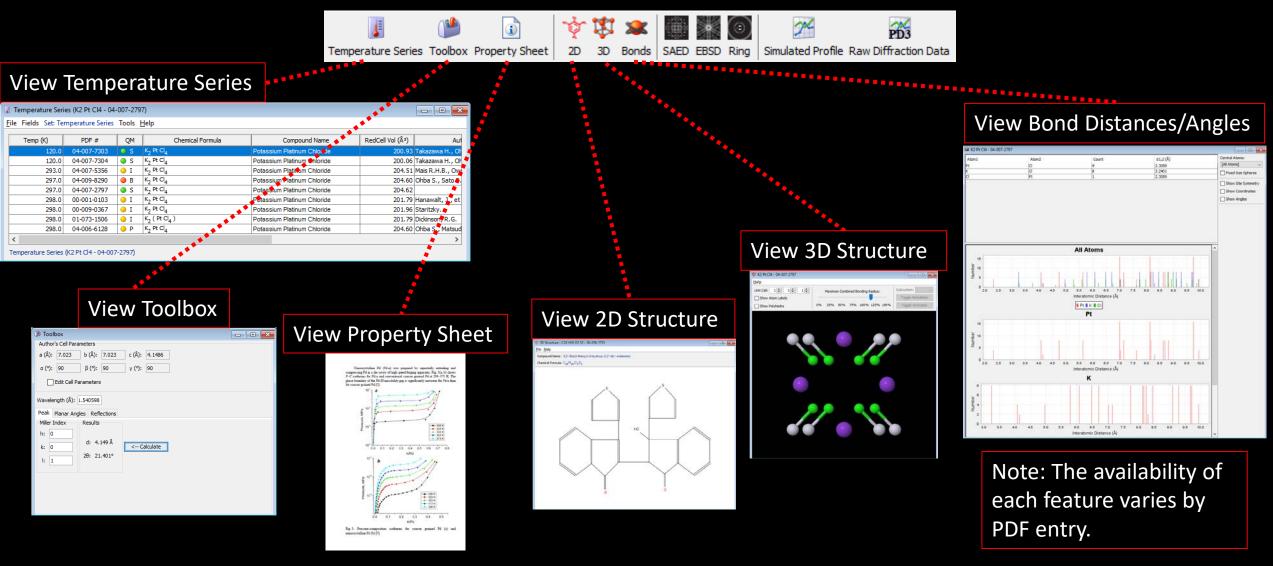
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					Classifications	Optical	Physical	Chemical Formula: K <sub>2</sub> Pt Cl <sub>4</sub>
					Cross-references	Structure	Crystal	Structural Formula: - Empirical Formula: Cl <sub>4</sub> K <sub>2</sub> Pt
					References	Classifications	Optical	Weight %: Cl34.16 K18.84 Pt47.00 Atomic %: Cl57.14 K28.57 Pt14.29
					Comments	Cross-references References	Classifications	Compound Name: Potassium Platinum Chloride
						Comments	Cross-references	Mineral Name: - IMA No: - Alternate Name: -
							References	CAS Number: 10025-99-7
							Comments	Entry Date: 09/01/1959 Last Modification Date: - Last Modifications: -





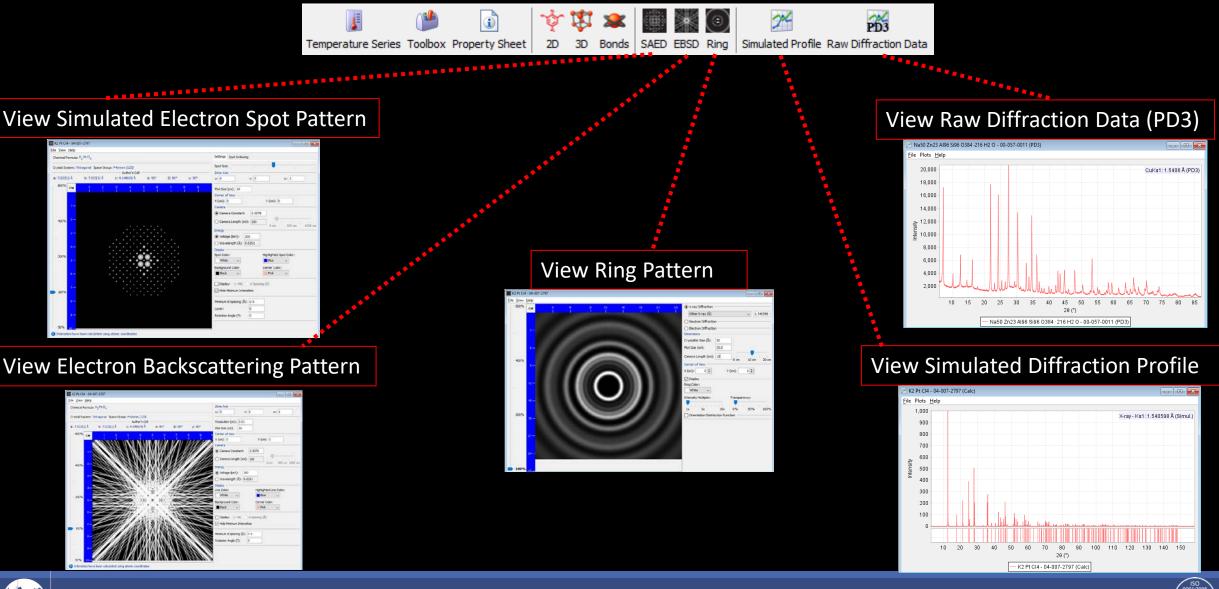
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### PDF Data Card Features



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