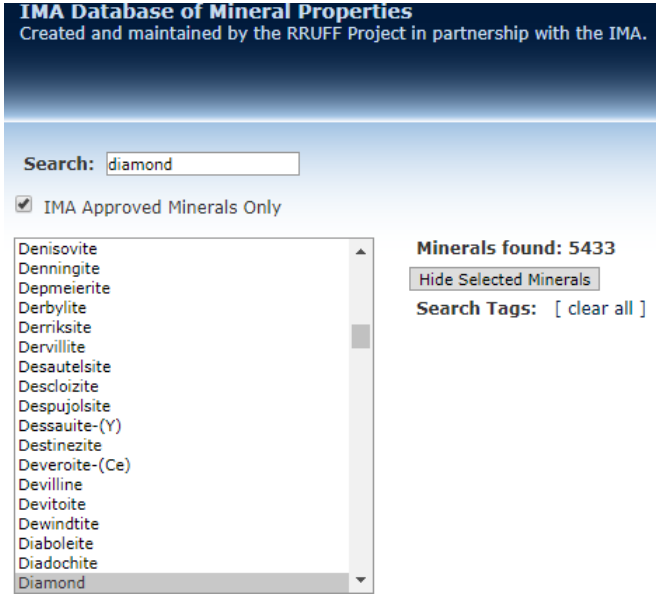
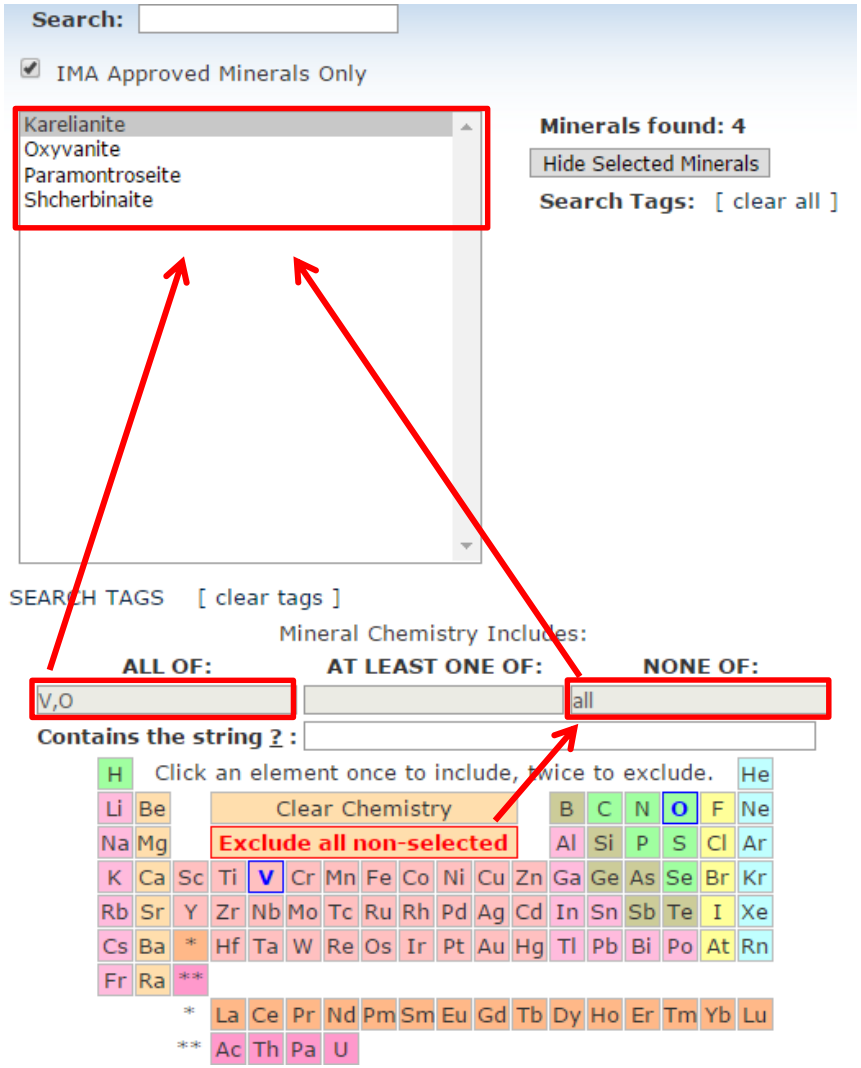
Basic use of
IMA Database of Mineral Properties



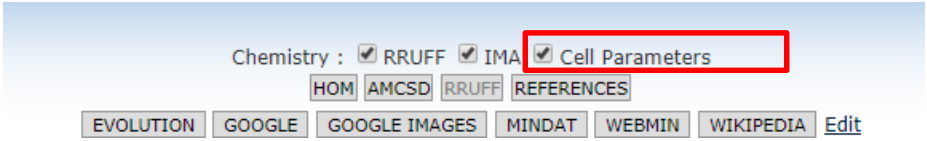
Search interface

http://rruff.info/ima/

1. Find all vanadium oxide minerals



2. Select ”Cell parameters” from right



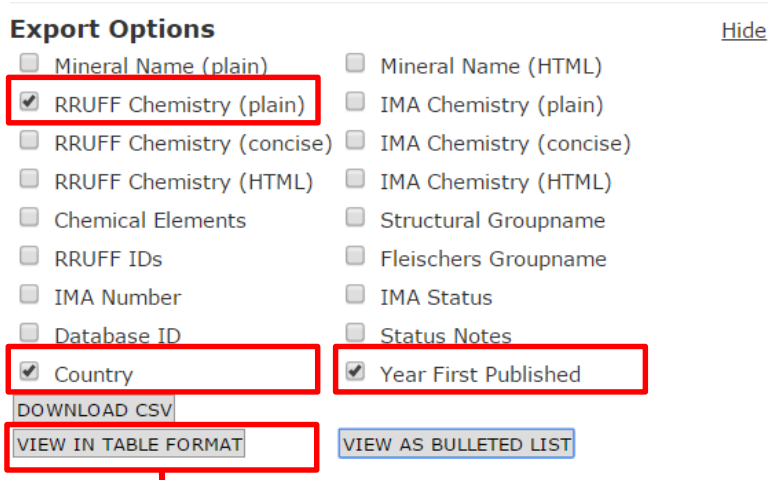
Click ”HOM” for a PDF listing of the properties
Click AMCSD for a CIF file of the selected mineral

3. Selecting a mineral gives you a list of structure information on the right

	mineral name	chemistry	a	b	c	α	β	γ	crystal system	space group
Autofill	Karelianite	V2 O3	4.952	4.952	14.002	90	90	120	hexagonal	R$\bar{3}$c
Autofill	Karelianite	V2 O3	4.9521	4.9521	14.0024	90	90	120	hexagonal	R$\bar{3}$c
Autofill	Karelianite	V2 O3	4.9322	4.9322	13.991	90	90	120	hexagonal	R$\bar{3}$c
Autofill	Karelianite	V2 O3	4.9199	4.9199	13.9787	90	90	120	hexagonal	R$\bar{3}$c
Autofill	Karelianite	V2 O3	4.9018	4.9018	13.969	90	90	120	hexagonal	R$\bar{3}$c
Autofill	Karelianite	V2 O3	5.46	5.46	5.46	53.82	53.82	53.82	hexagonal	R$\bar{3}$c

Export options

On the left search panel, below the periodic table, you export further information about the found minerals by clicking ”View in table format”



Mineral Name	RRUFF Chemistry (plain)	Country of Type Locality	Year First Published
Karelianite	$V^{3+}_2O_3$	Finland	1963
Oxyvanite	$V^{3+}_2V^{4+}O_5$	Russia	2008
Paramontroseite	$V^{4+}O_2$	USA	1955
Shcherbinaite	$V^{5+}_2O_5$	Russia	1971

Cell parameter search

First click Clear Chemistry **in the periodic table**

Cell Parameter Search Controls Hide

Use Search Controls

Crystal system: tetragonal ▼ Lattice: ▼

Point group: 4/m2/m2/m ▼ Space group: P4/mmm ▼ SG List

a: b: c: 1% Tol

α: β: γ: 10% Tol

volume:

Use Literature Use RRUFF Use AMCSD

Search Entire List Reset

Useful if you need to find minerals with certain crystal symmetry and cell parameters

mineral name	chemistry
Arsenohauchecornite	
Bortnikovite	$[(Pd_{3.822}Pt_{0.145})_{3.967}Cu_{2.998}(Zn_{0.857}Fe_{0.177})_{1.034}]$
Ferronickelplatinum	(Ni.5 Fe.5) Pt
Hauchecornite	Bi1.3 Sb.7 Ni9 S8
Linzhiite	$FeSi_2$
Linzhiite	Fe Si2
Linzhiite	Fe Si2
Linzhiite	Fe Si2
Linzhiite	Fe Si2
Macedonite	Pb Ti O3
Muirite	Ba10 (Ca2 Mn Ti) Si8 O32 Cl8 H12
Muirite	Ba9.5 Ca3.5 Ti Si8 O36 Cl4 H12
Potarite	Hg Pd
Tellurohauchecornite	
Tetraferroplatinum	Fe Pt
Tetrataenite	Fe Ni
Tulameenite	(Cu.5 Fe.5) Pt