8. Übergangsmetalle
8.5. Oxide

	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn
I		▲							77 ⬠	
II		68 ■	79 ■	73 ■	67 ■	61 ■	65 ■	68 ■	73 ▧	74 ▲
III	75 ▯	67 ⬢	64 ⬢	62 ⬢	58 ▯	55 ⊠ ⬢				
IV		61 ▼	58 ▼	55 ▼	53 ▼					
V			54 *	53 *						
VI				44 ◇						
VII					46 ○					
	Y	**Zr**	**Nb**	**Mo**	**Tc**	**Ru**	**Rh**	**Pd**	**Ag**	**Cd**
I									115 ⬠	
II		■	*					86 ▧	94 ▧	95 ■
III	90 ▯		72				67 ⬢			
IV		72 ⬟	68 ▼	65 ▼	65 ▼	62 ▼	60 ▼			
V			64 *							
VI				59 ◇						
VII					56 ○					
VIII						36 ⦸				
	La	**Hf**	**Ta**	**W**	**Re**	**Os**	**Ir**	**Pt**	**Au**	**Hg**
I									151 ?	
II								80 ▧		102 *
III	103 ▯								85 *	
IV		71 ⬟	68 ▼	66 ▼	63 ▼	63 ▼	63 ▼	63 ▼		
V			64 *		58 ?					
VI				60 ◆	55 ◆					
VII					53 ●					
VIII						39 ⦸				

* eigener Typ

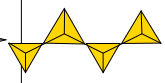
M_2X
- ▲ anti–CdI_2
- ⬠ Cu_2O

MX
- ▲ Wurtzit
- ■ NaCl
- ▧ PtS

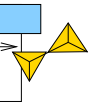
M_2X_3
- ▯ A,B oder C–St.
- ⊠ γ –Al_2O_3
- ⬢ Korund

MX_2
- ▼ Rutil
- ⬟ ZrO_2

MX_3
- ◆ ReO_3
- ◇ CrO_3
- ◇ MoO_3

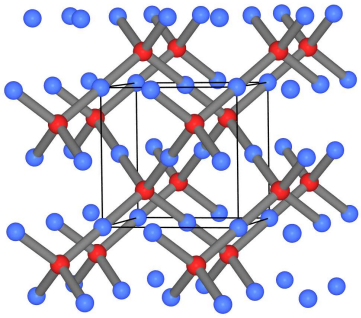


M_2X_7
- ○ Mn_2O_7
- ● Re_2O_7

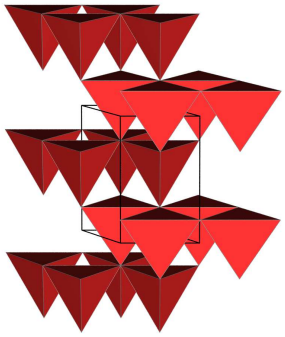


MX_4
- ⦸ OsO_4

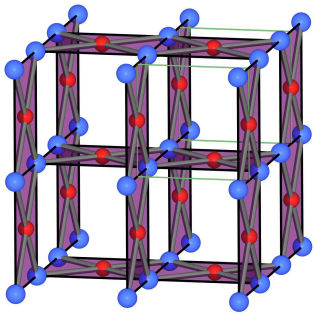
Ionenradien nach Shannon (für CN 6 in pm)



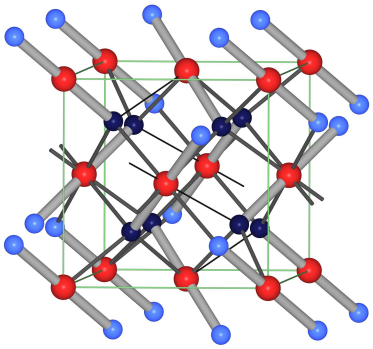
Cu_2O



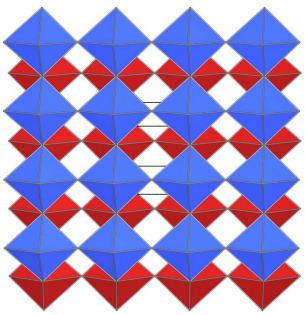
Wurtzit



PtS



ZrO_2



MoO_3

(s.a. http://ruby-chemie.de/Vorlesung/metalle_8_5.html)