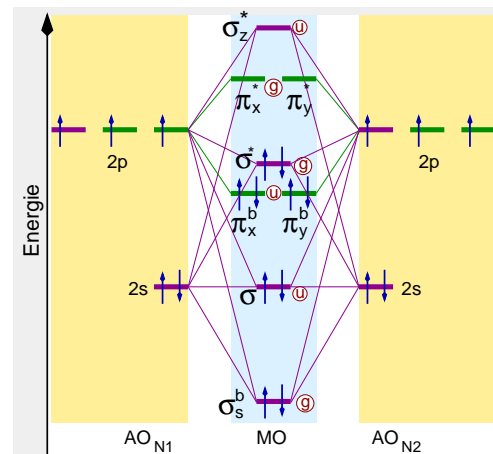


## 6. Pentele: N, P, As

### 6.1. Elemente: Übersicht

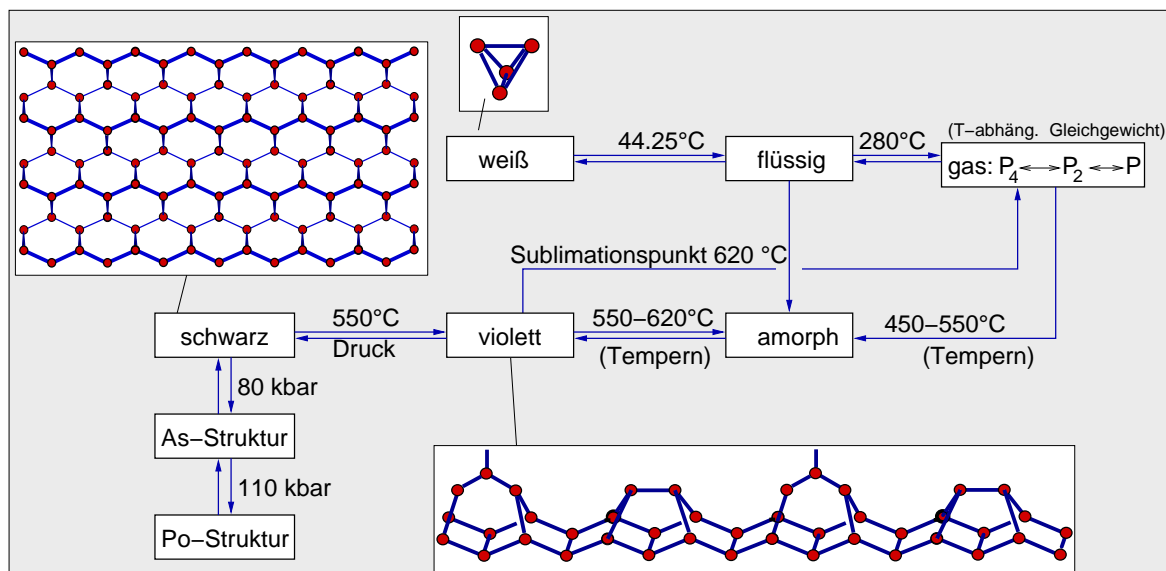
	N	P	As	Sb	Bi
EN	3.0	2.1	2.2	1.8	1.7
I <sub>E</sub> [eV]	14.5	11.0	9.8	8.6	7.3
E <sub>X<sub>2</sub>→2X</sub> [ $\frac{\text{kJ}}{\text{mol}}$ ]	946				
Mp <sub>X<sub>2</sub></sub> [°C]	-210	44	817	630	271
Kp <sub>X<sub>2</sub></sub> [°C]	-196	280	616 (Subl.)	1635	1580
d <sub>X-X</sub> [pm]	109.8	189.3			
sonstige	Affinität_zu_elektroneg._Elem. →				
	MetallischerCharakter				
	basisischerCharakter_der_Oxide →				
	Salzcharakter_der_Halogenide				
Tendenzen	Affinität_zu_elektropos._Elem. ←				
	Reaktionsfähigk.,Oxidationsvermögen				

Physikalische Daten der Pentele

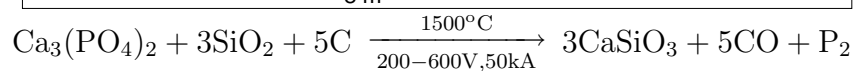
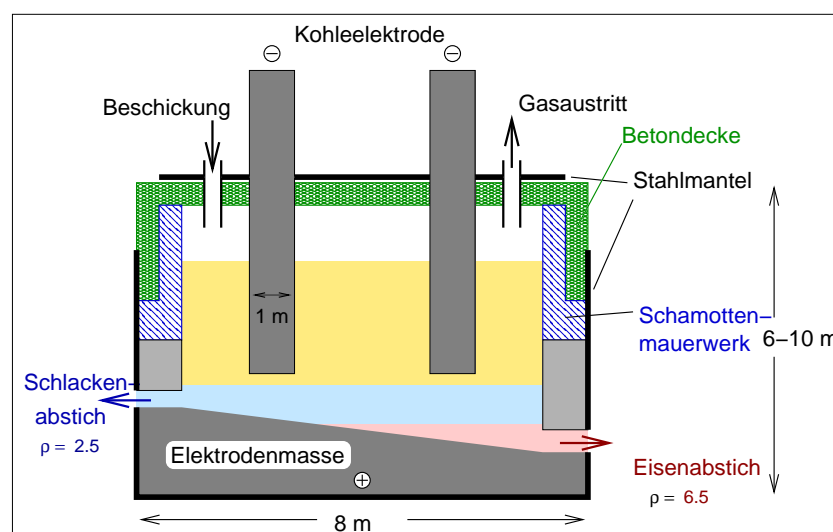


MO-Schema von N<sub>2</sub>

## Phosphor



Modifikationen, Phasenbeziehungen



Herstellung/Gewinnung im Lichtbogenofen