به نام خدا

مرکز دانلود رایگان
مهندسی متالورژی و مواد

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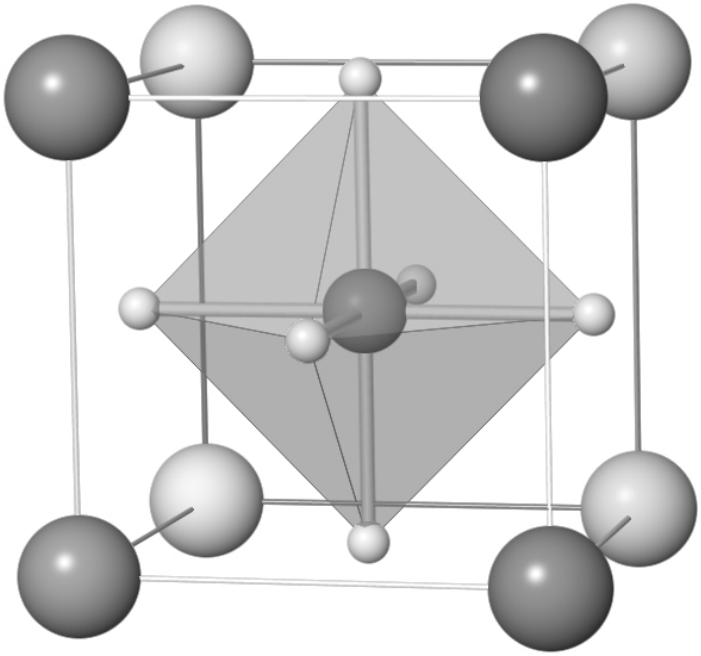
www.Iran-mavad.com

Steffen Weber's

Crystallography Picture Book

Crystal Structures



Preface

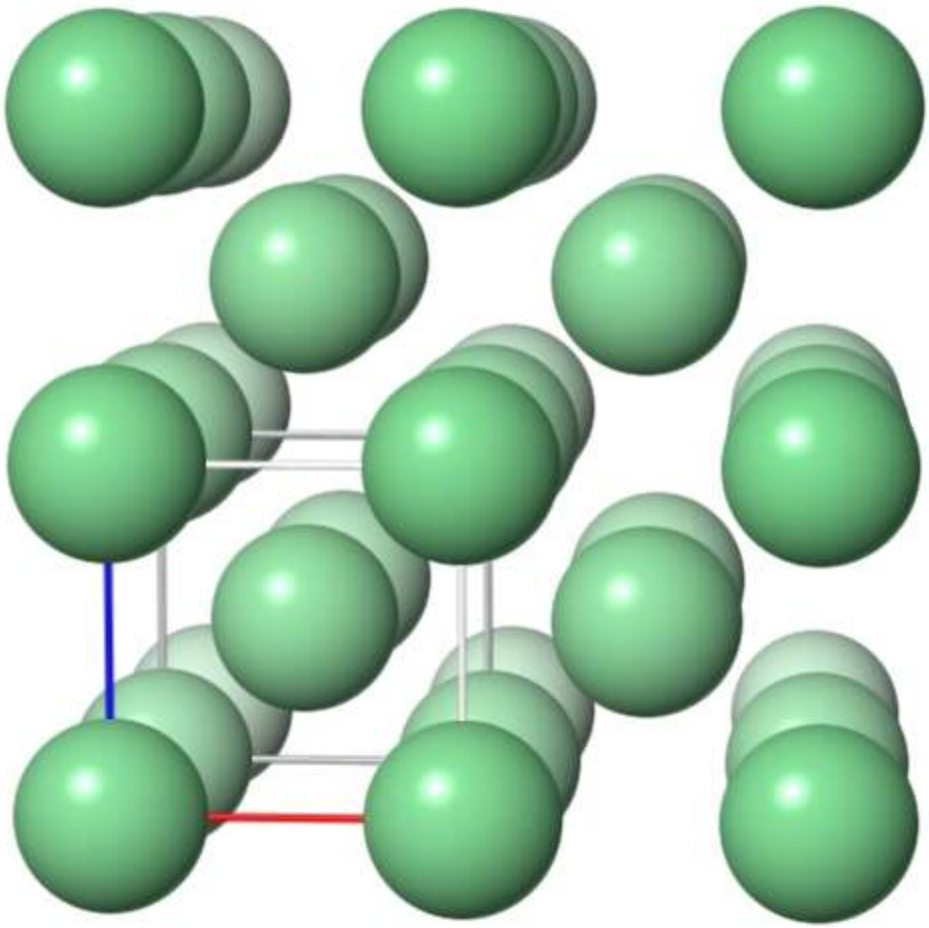
This is volume five in the series of picture books that I am creating for educational purposes. All images in this volume were created using the program *JPOWD from MDI* (www.materialsdata.com). The structures presented here correspond to the crystal structure gallery on my website (www.jcrystal.com/steffenweber/gallery/StructureTypes/st1.html). On that website you can also find further data, such as unit cell parameters and atom coordinates .

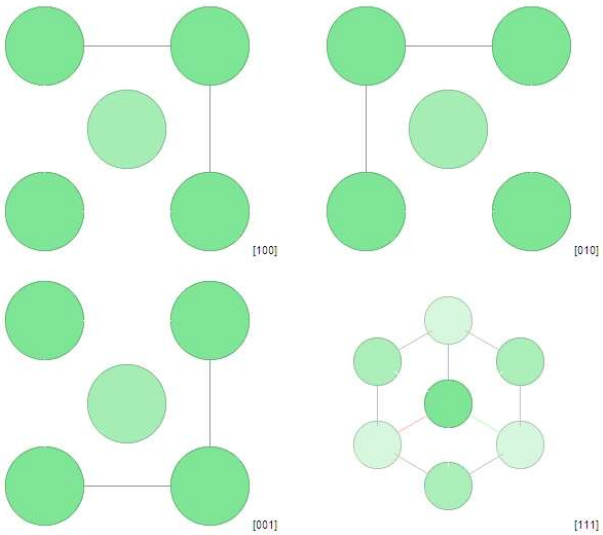
I recommend using Acrobat Reader 6.0 or higher, because these newer versions feature image smoothing.

Steffen Weber, Ph.D.
December 15, 2004
Livermore, California
www.jcrystal.com/steffenweber

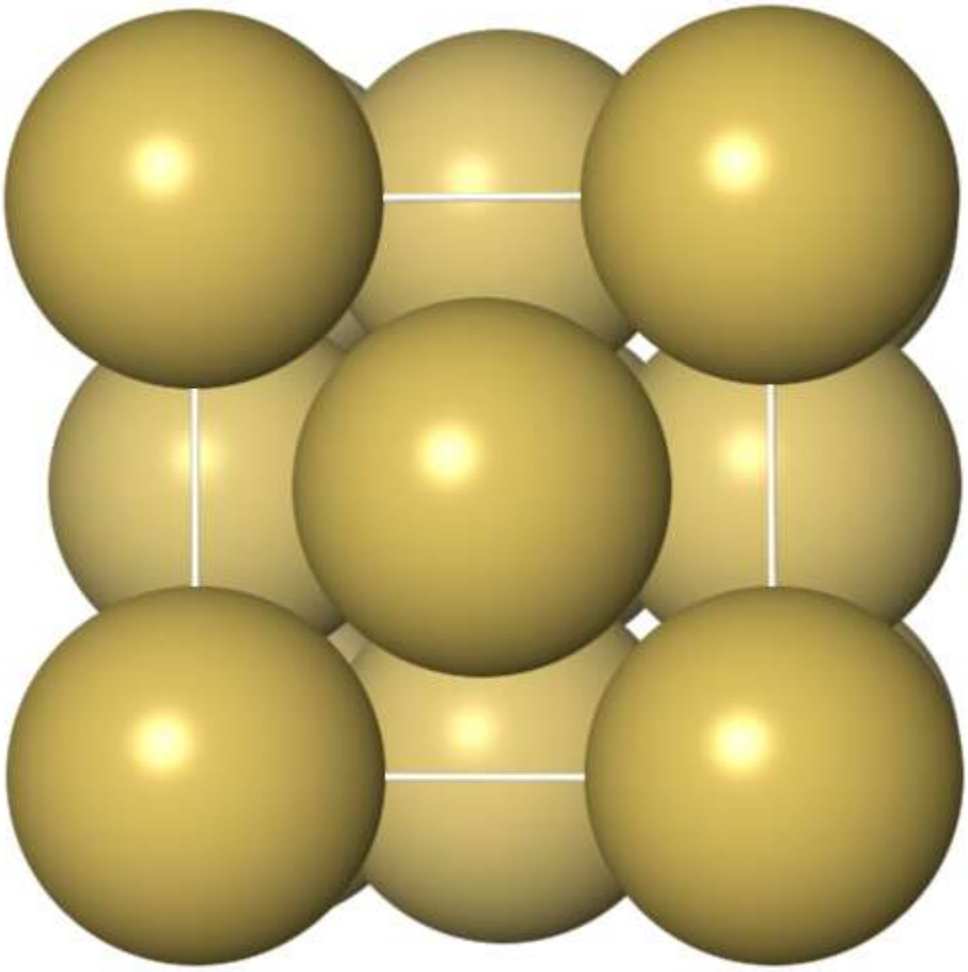
Contents

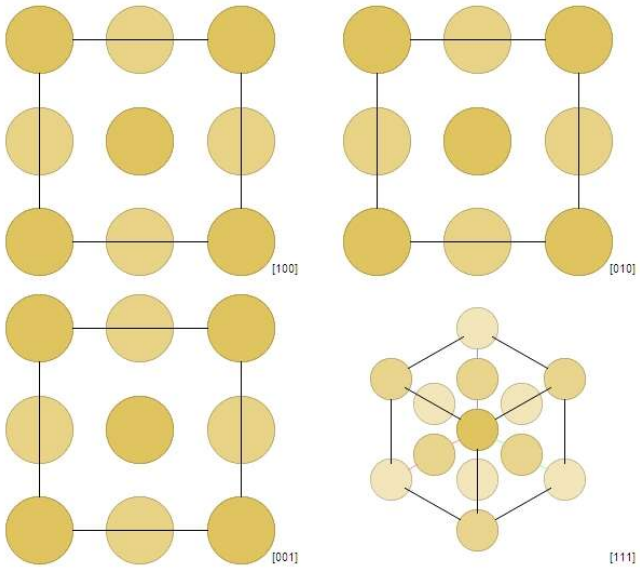
W (Elements, Tungsten)





Cu *(Elements, Copper)*





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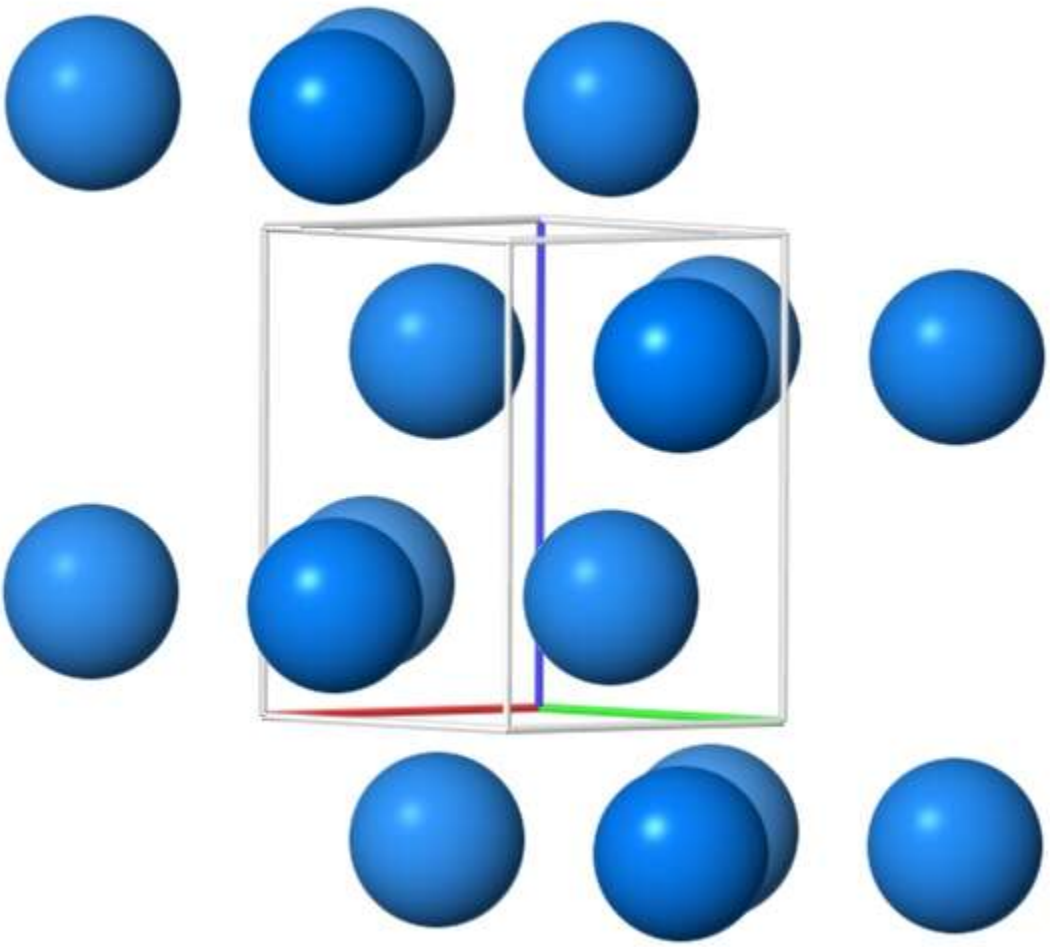
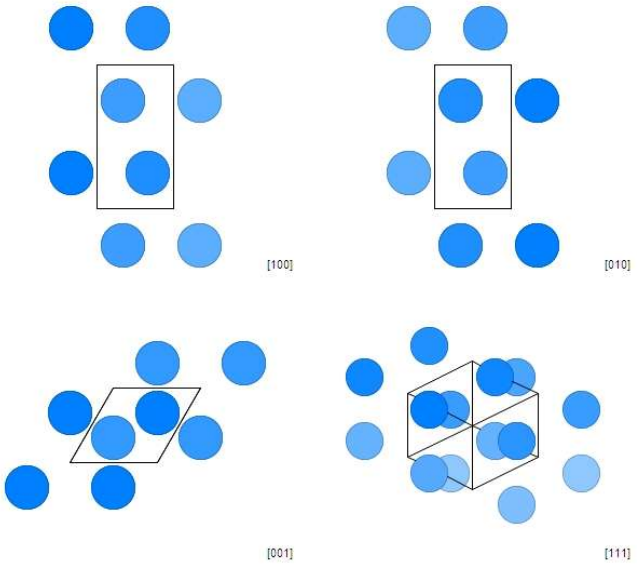
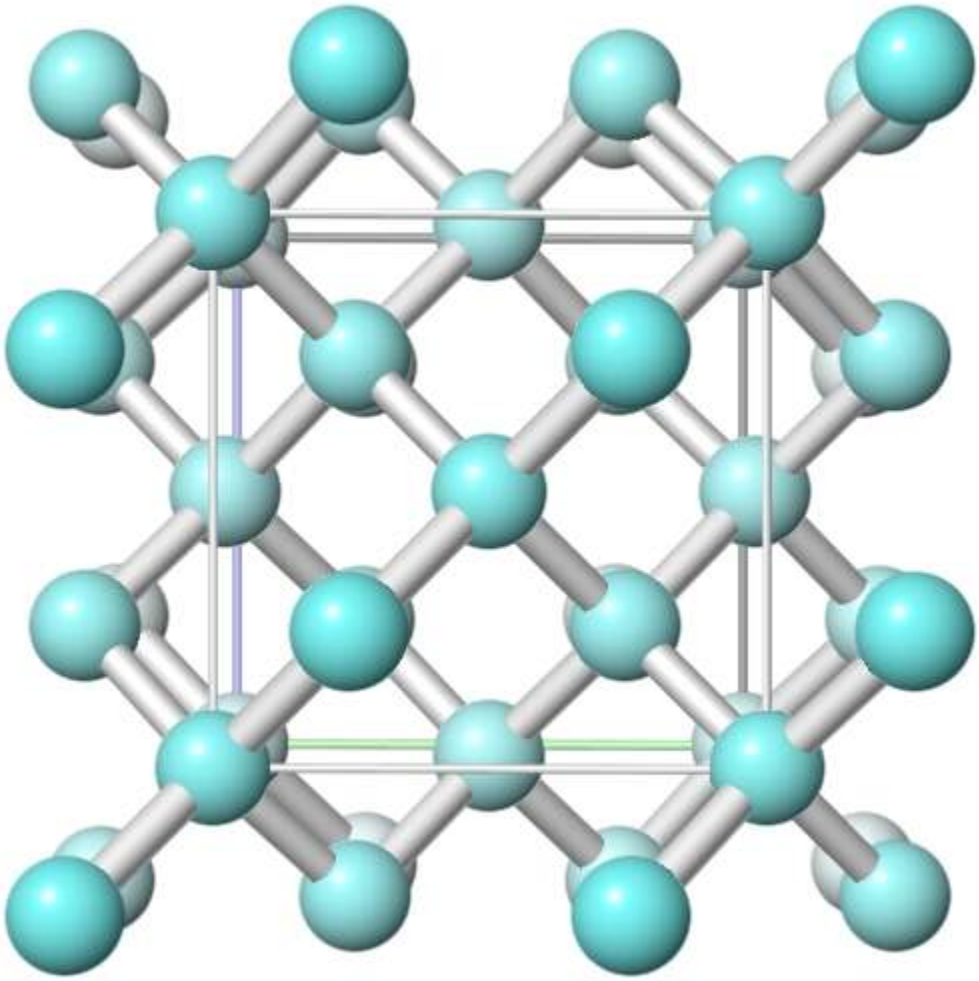
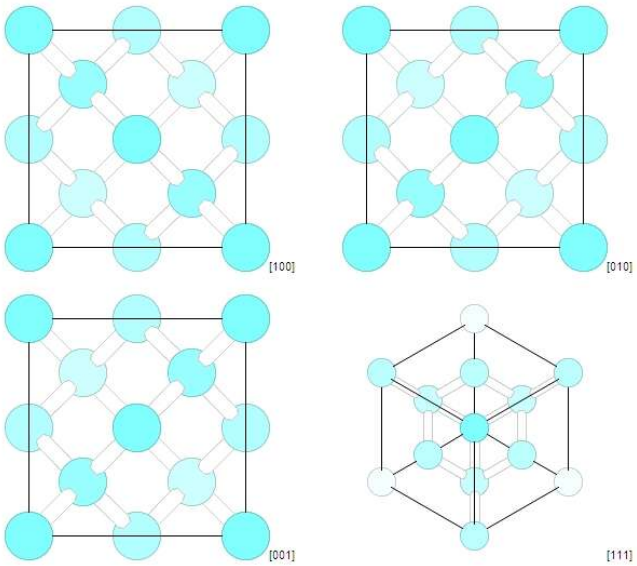


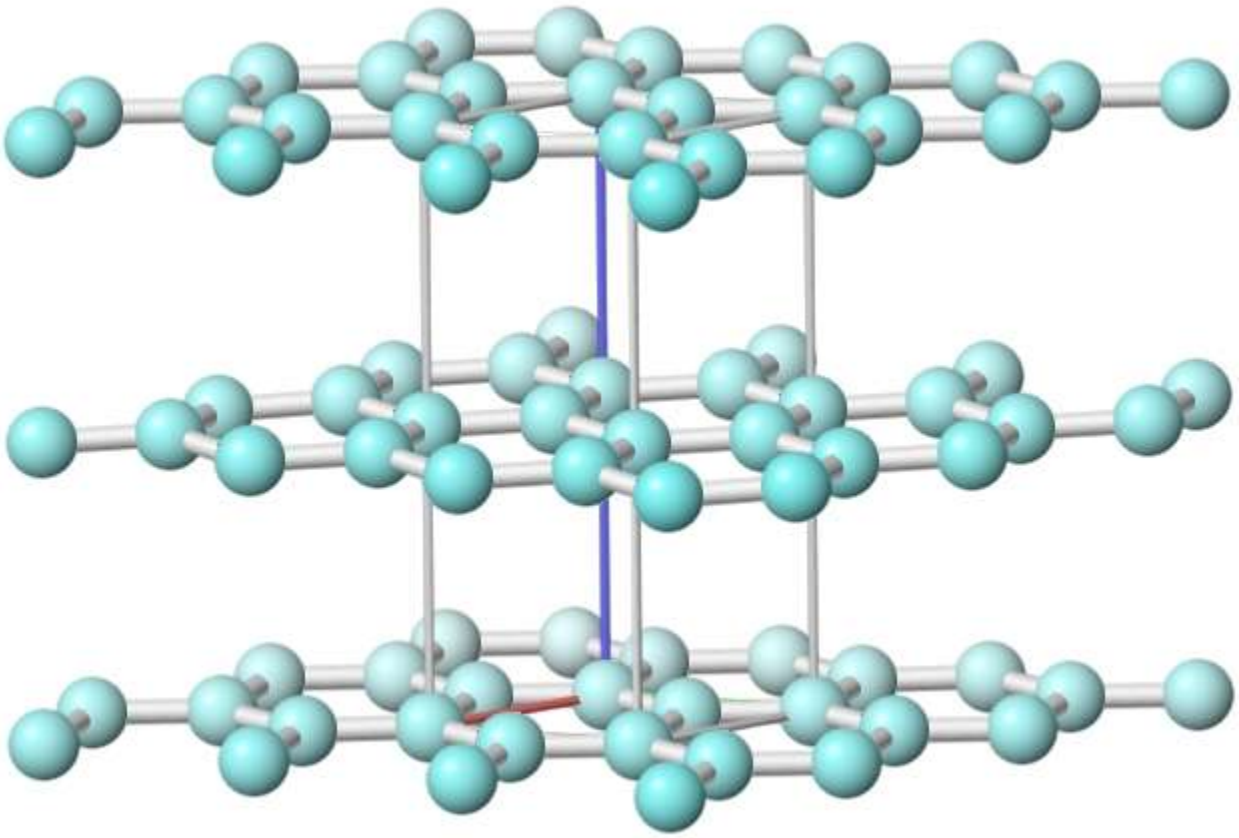


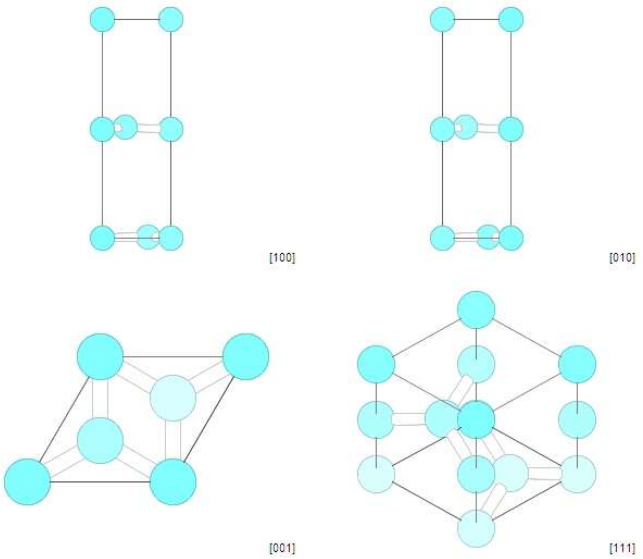
C *(Elements, Diamond)*



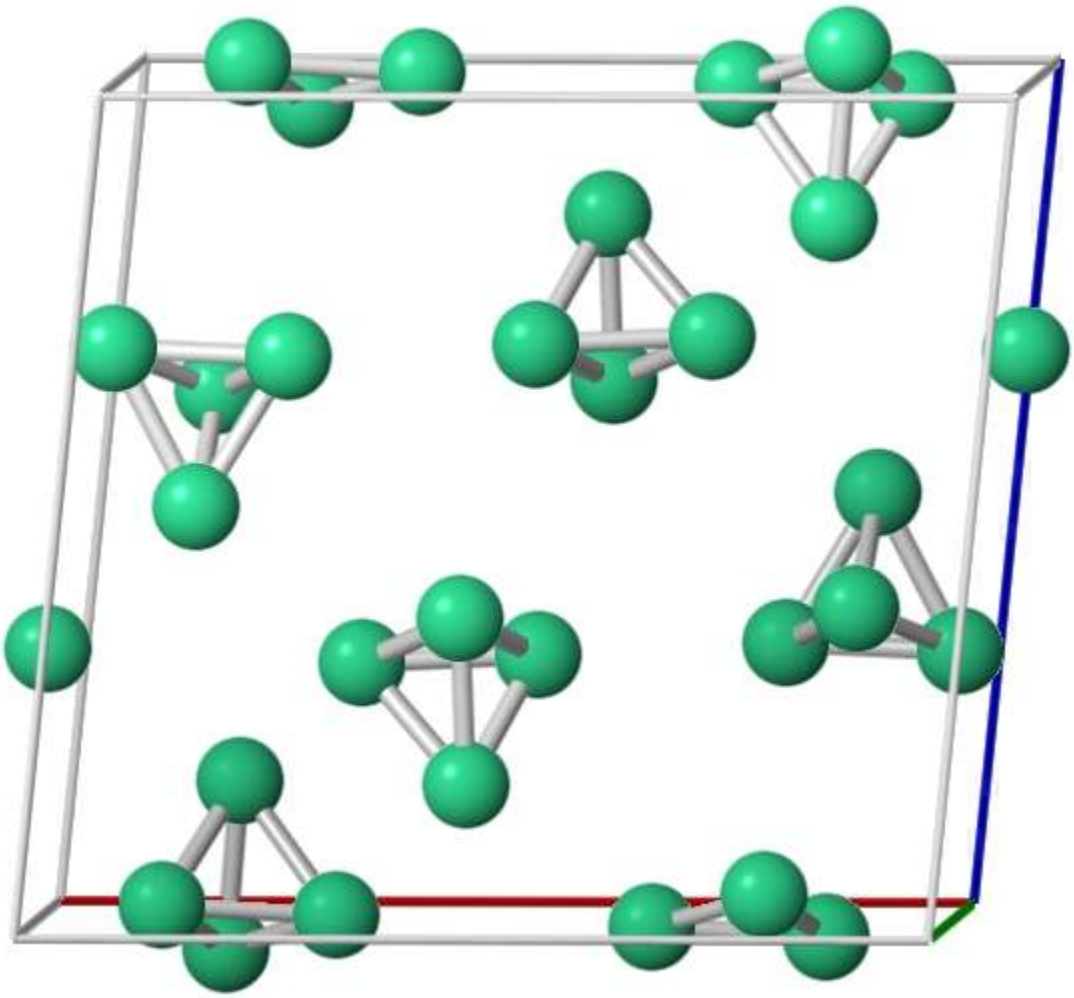


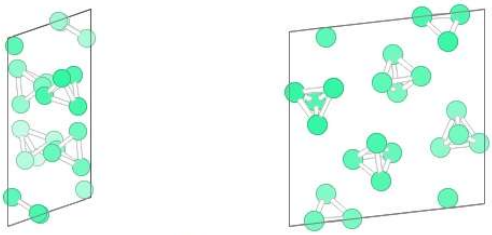
C *(Elements, Graphite)*

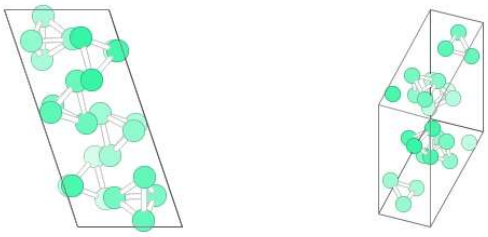




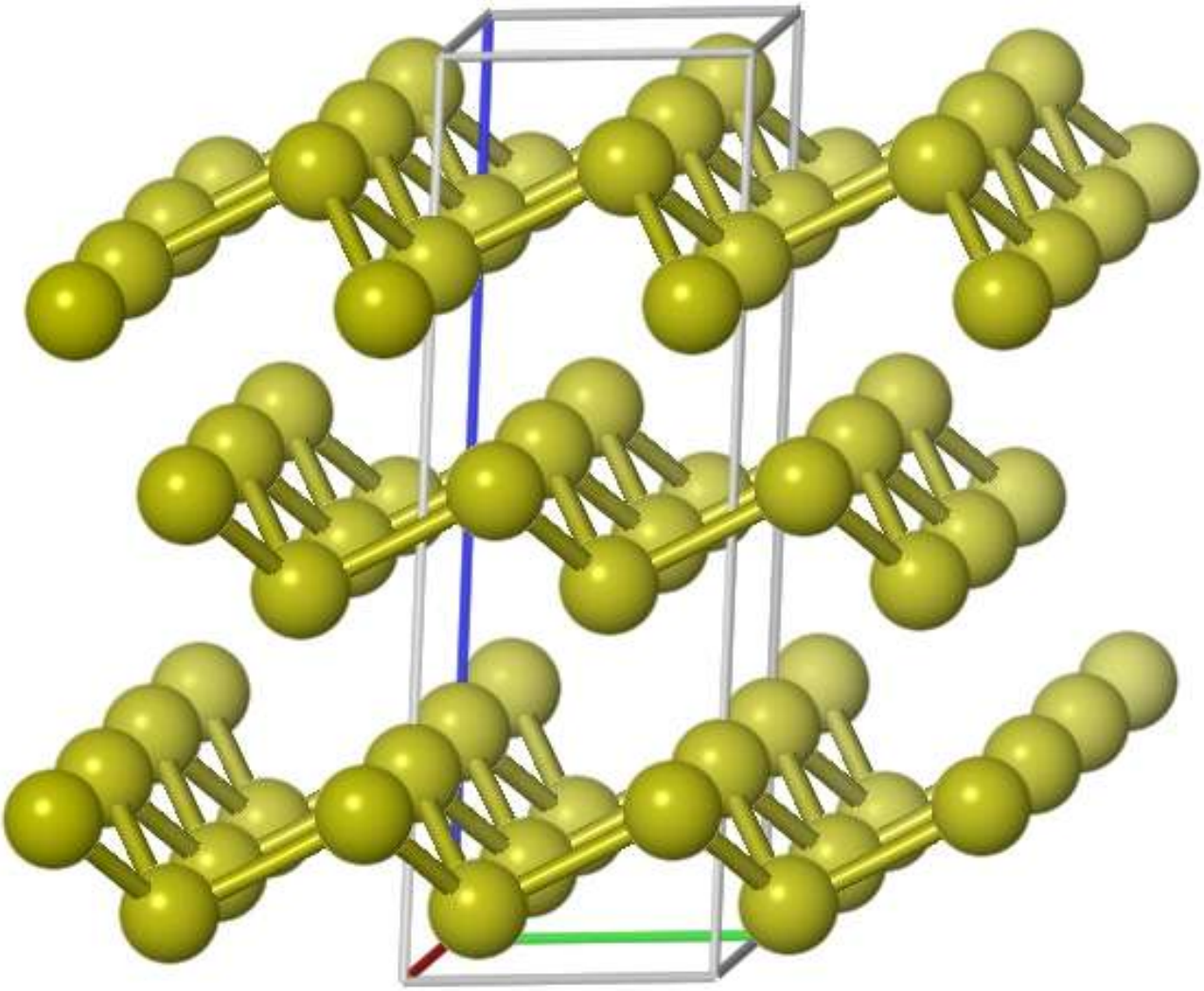
P *(Elements, Phosphorous-white)*

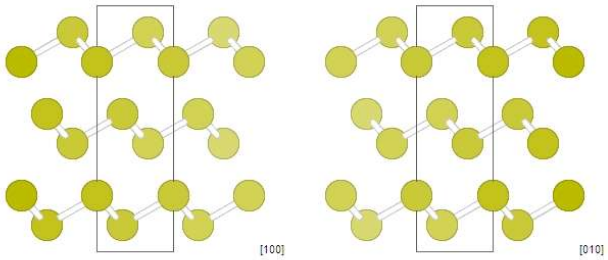


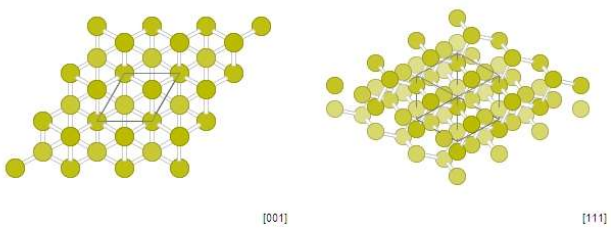




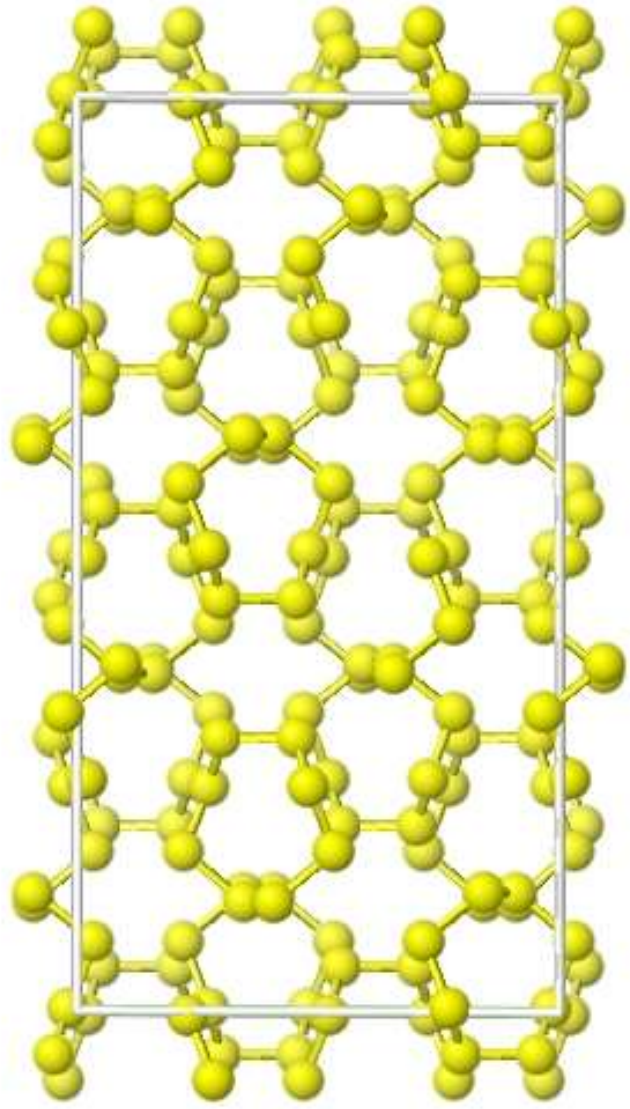
As *(Elements, Arsenic-grey)*

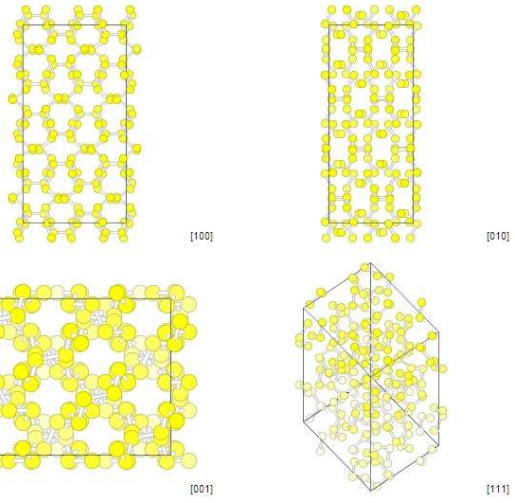




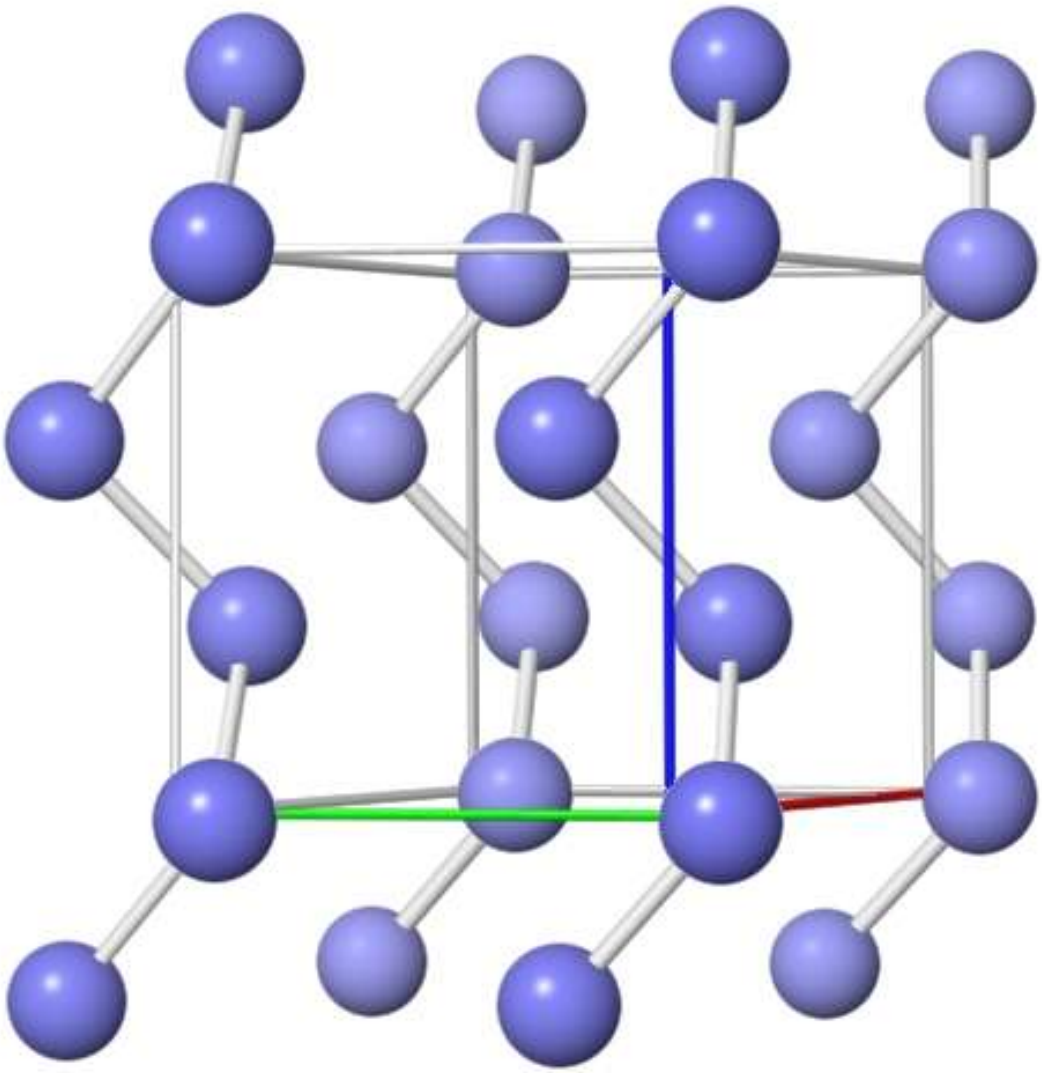


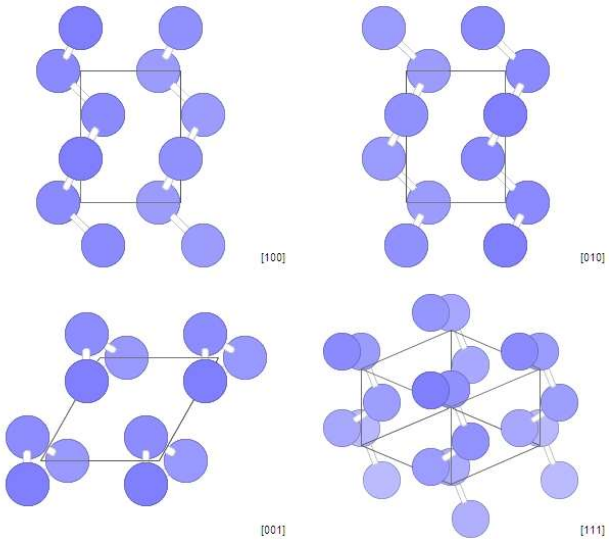
α-S_8 *(Elements, Sulphur)*



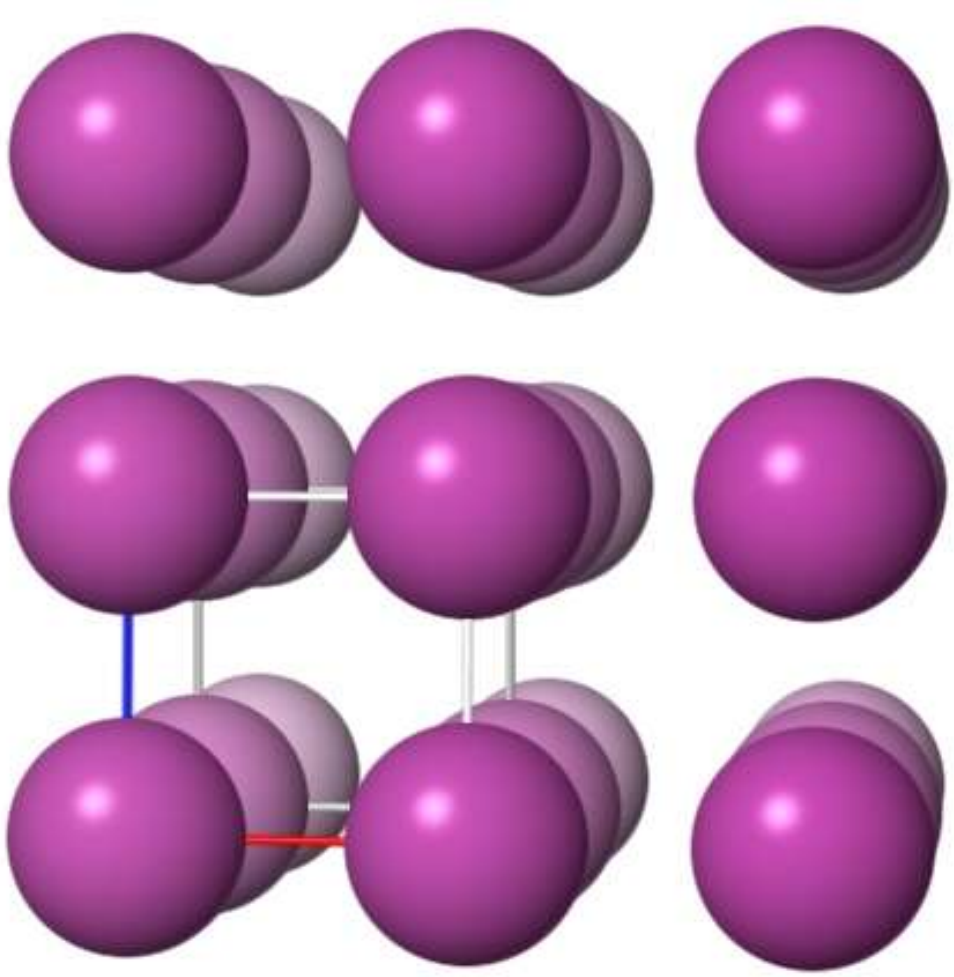


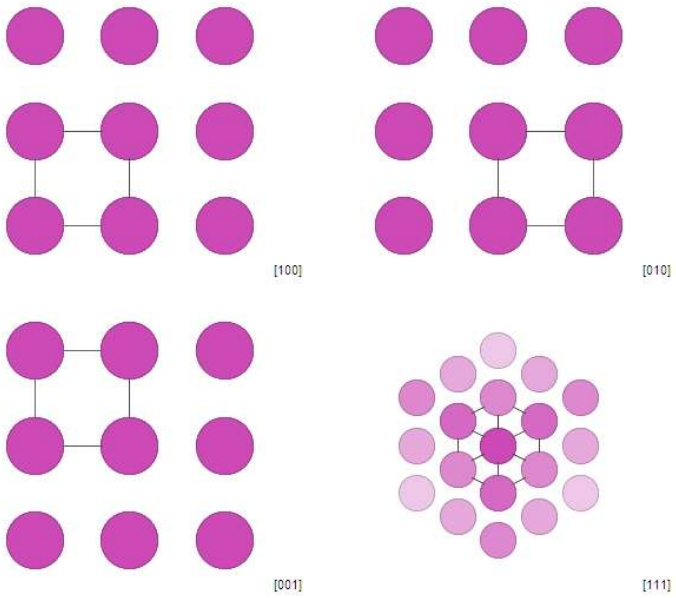
Se *(Elements, Selenium-grey)*



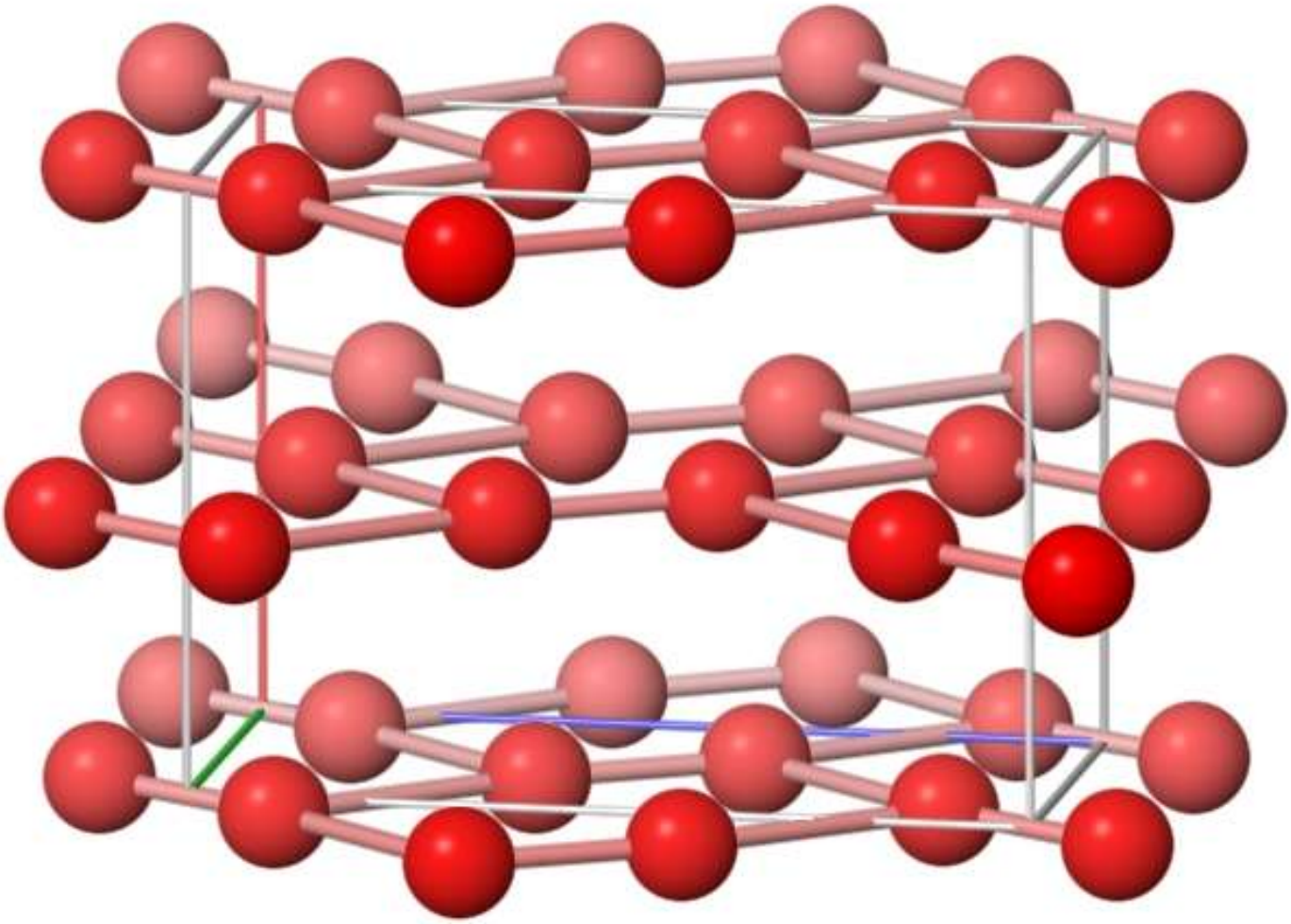


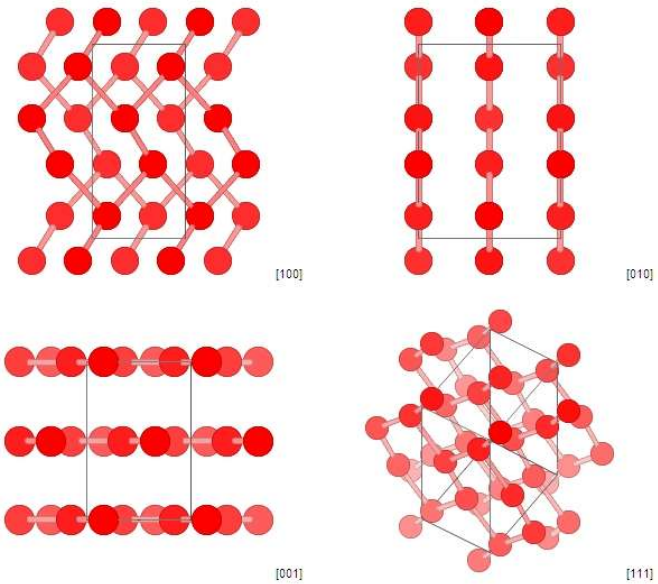
α-Po *(Elements, Polonium)*



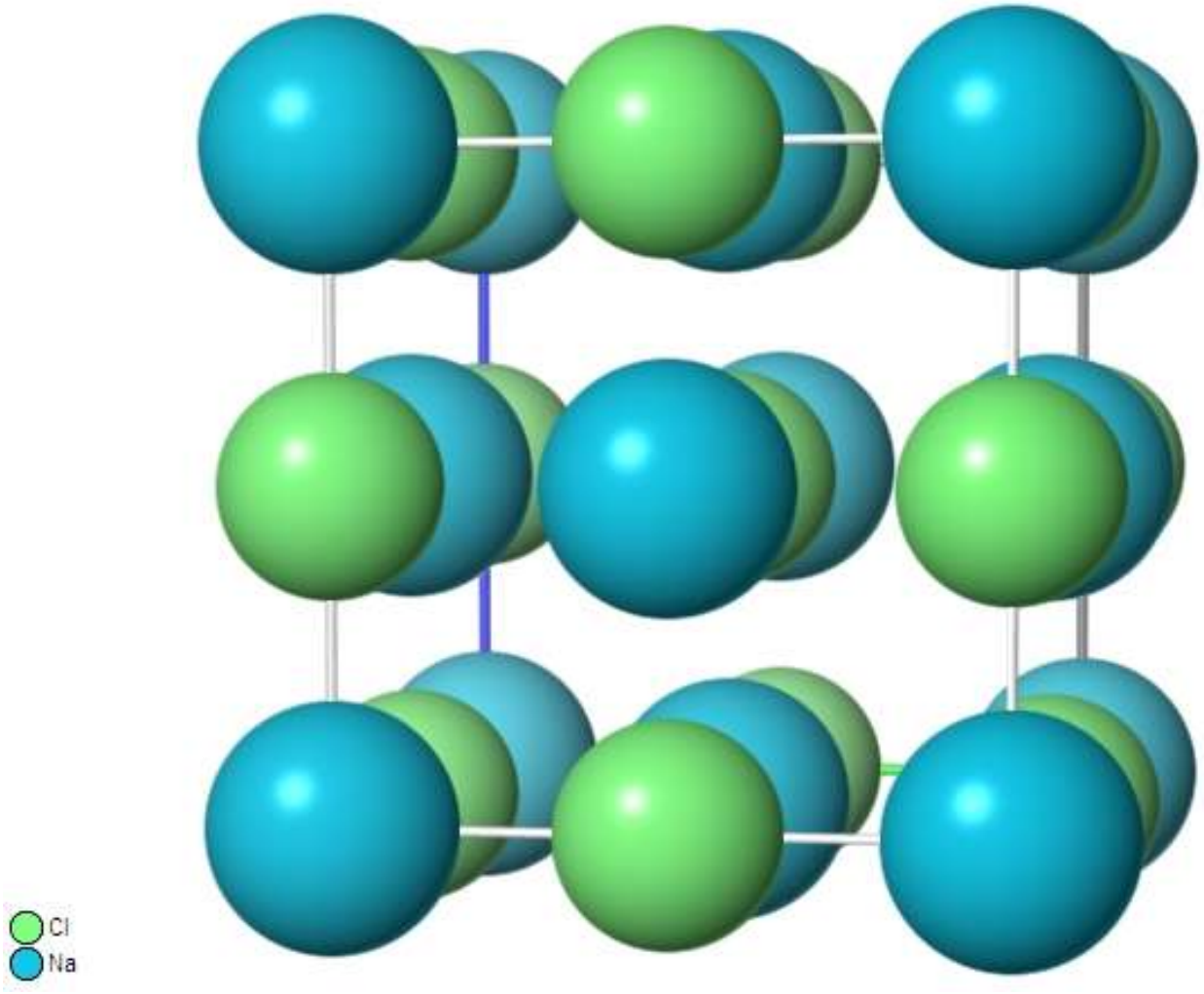


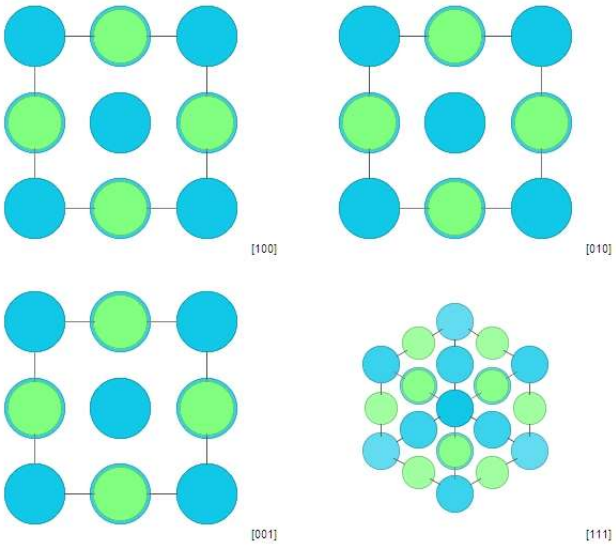
I_2 *(Elements, Iodine)*



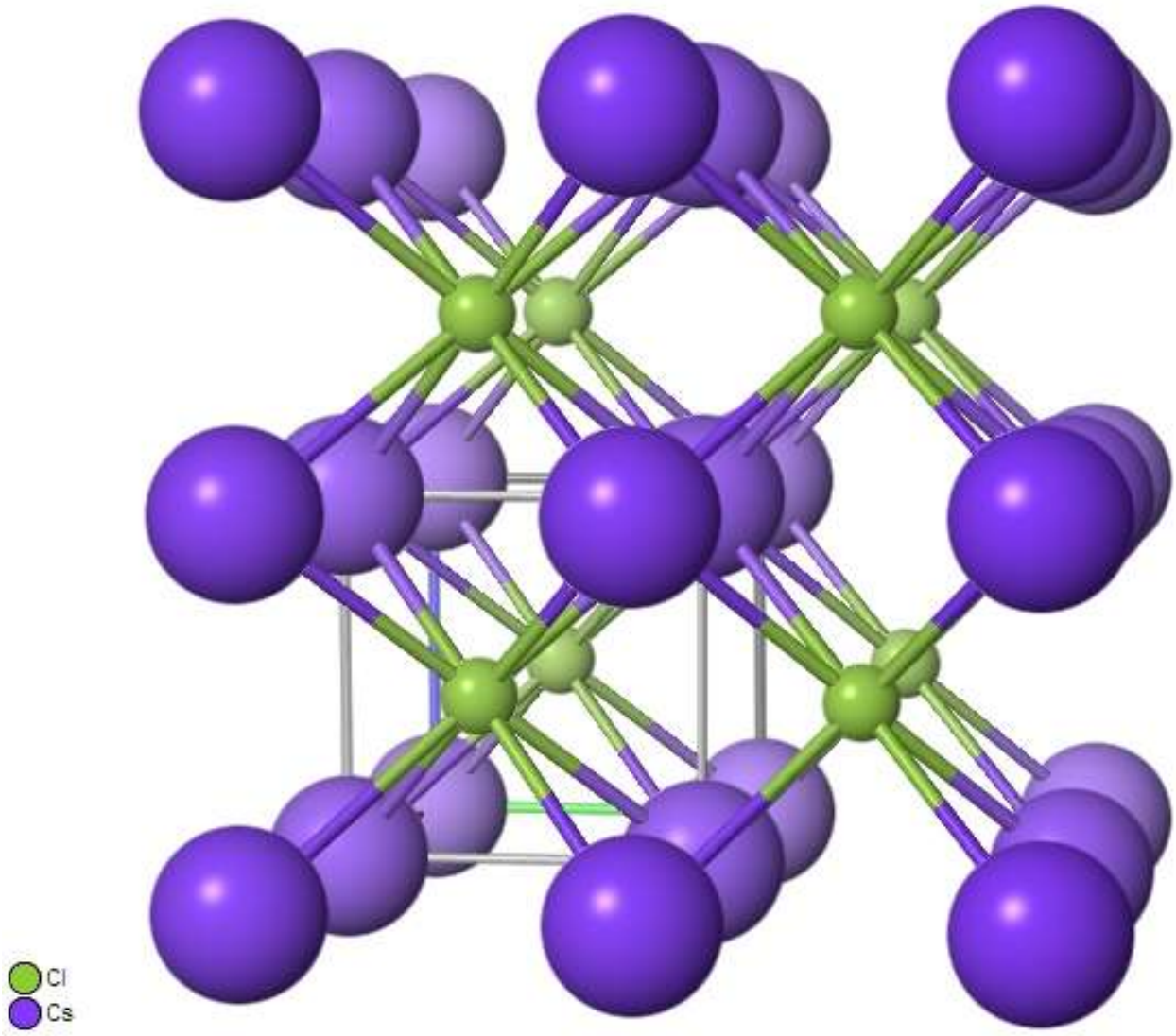


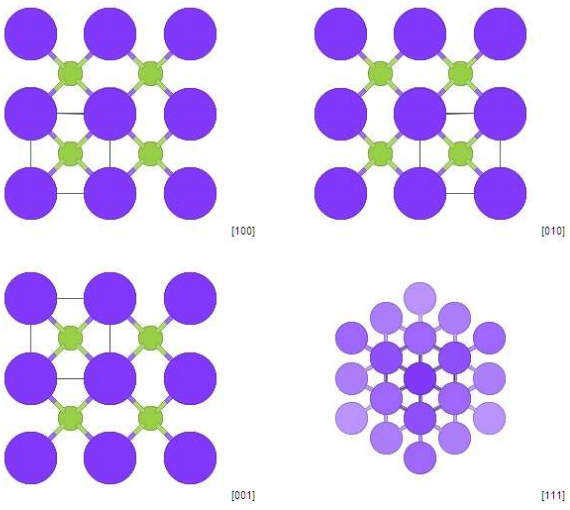
NaCl *(AB, Halite)*



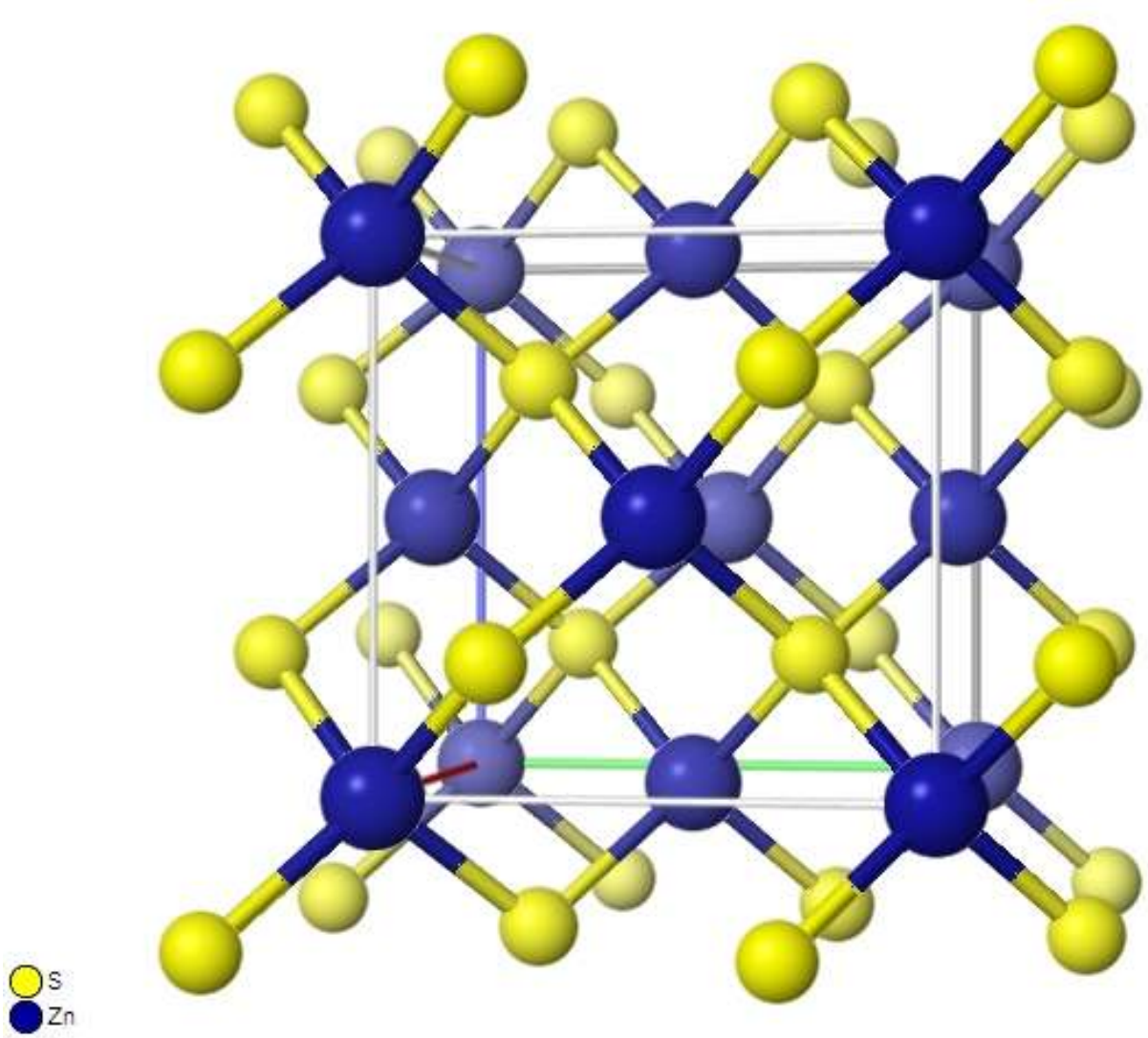


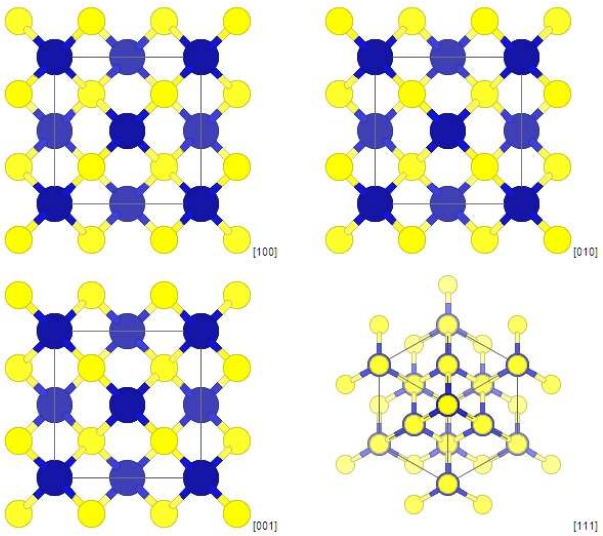
CsCl (AB)



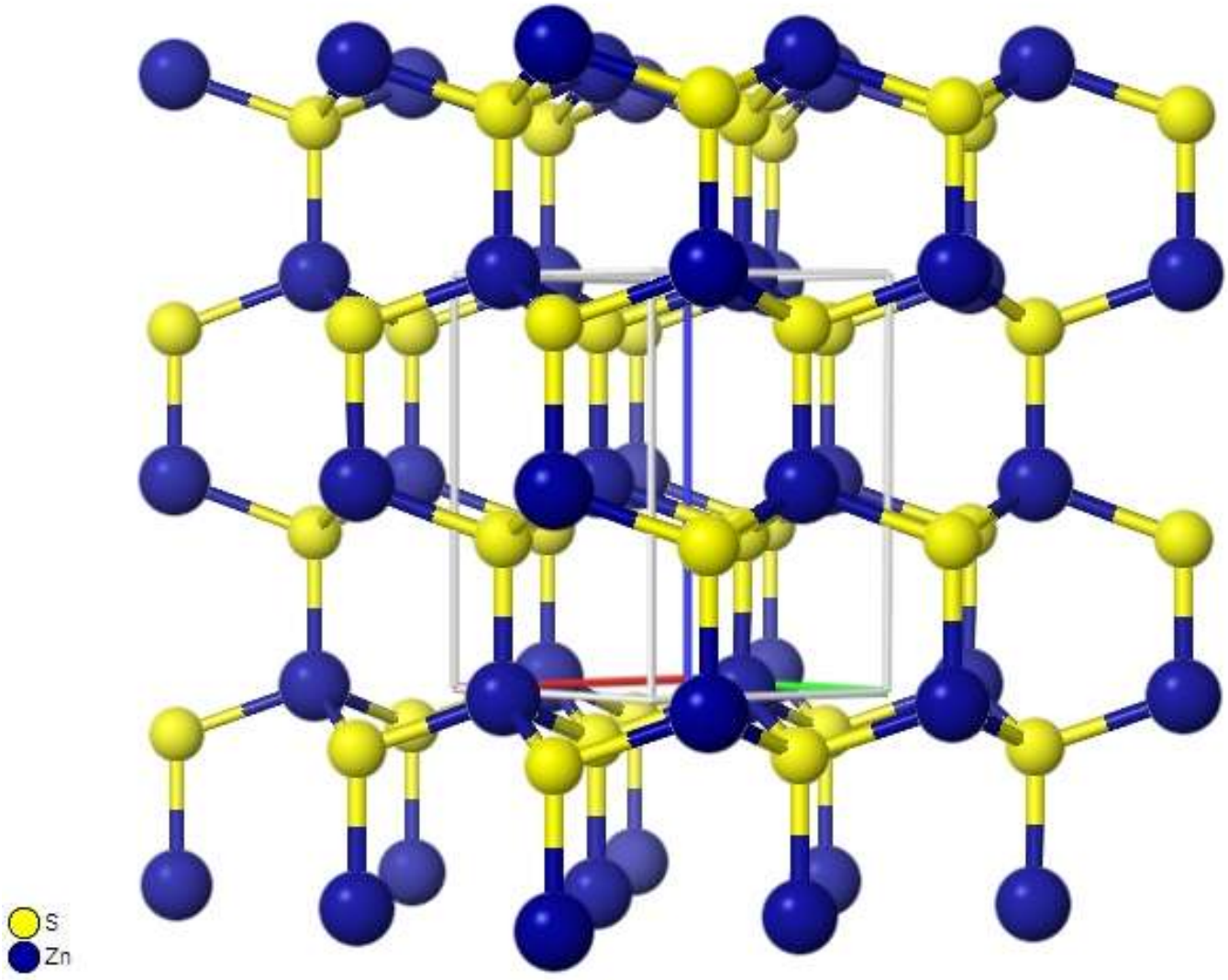


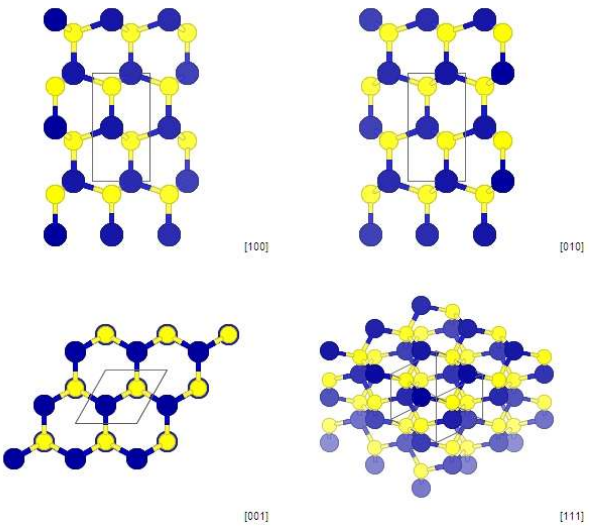
ZnS *(AB, Sphalerite)*





ZnS *(AB, Wurtzite)*





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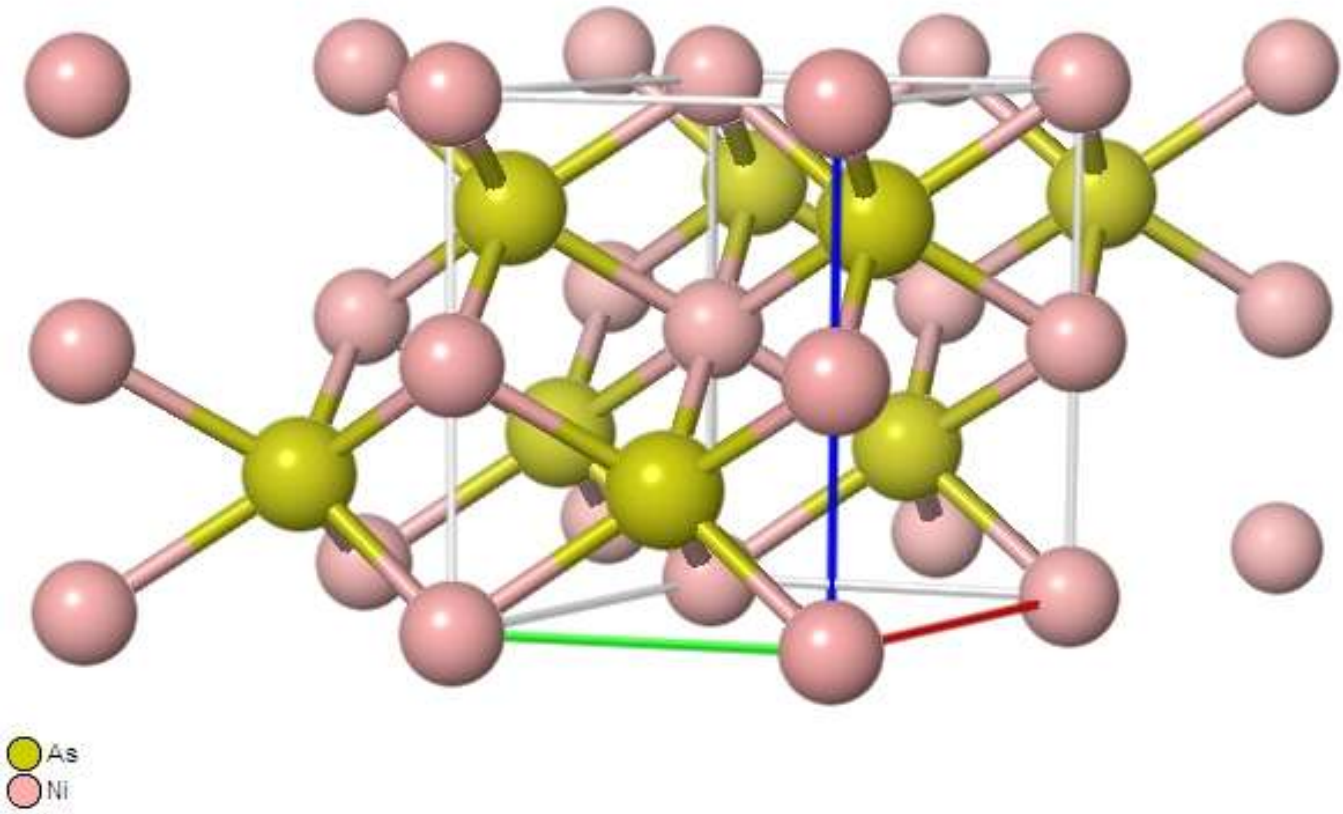
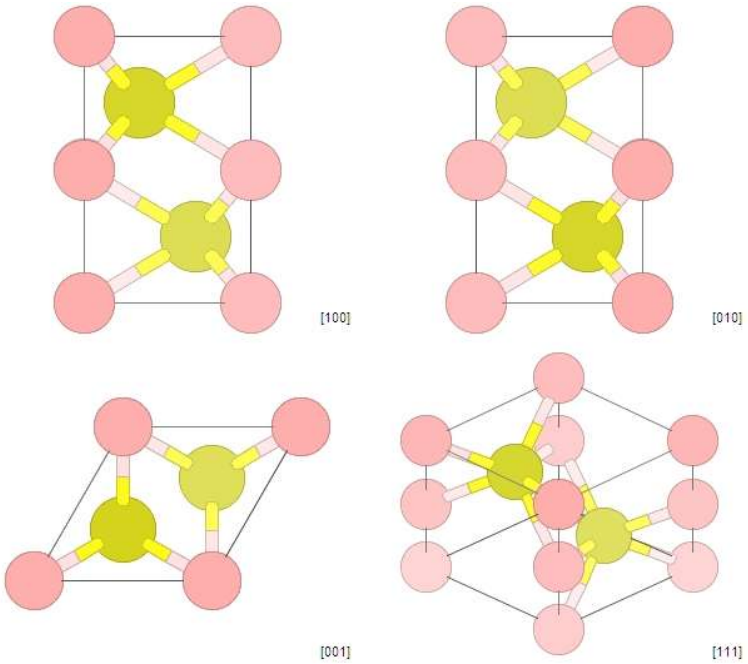
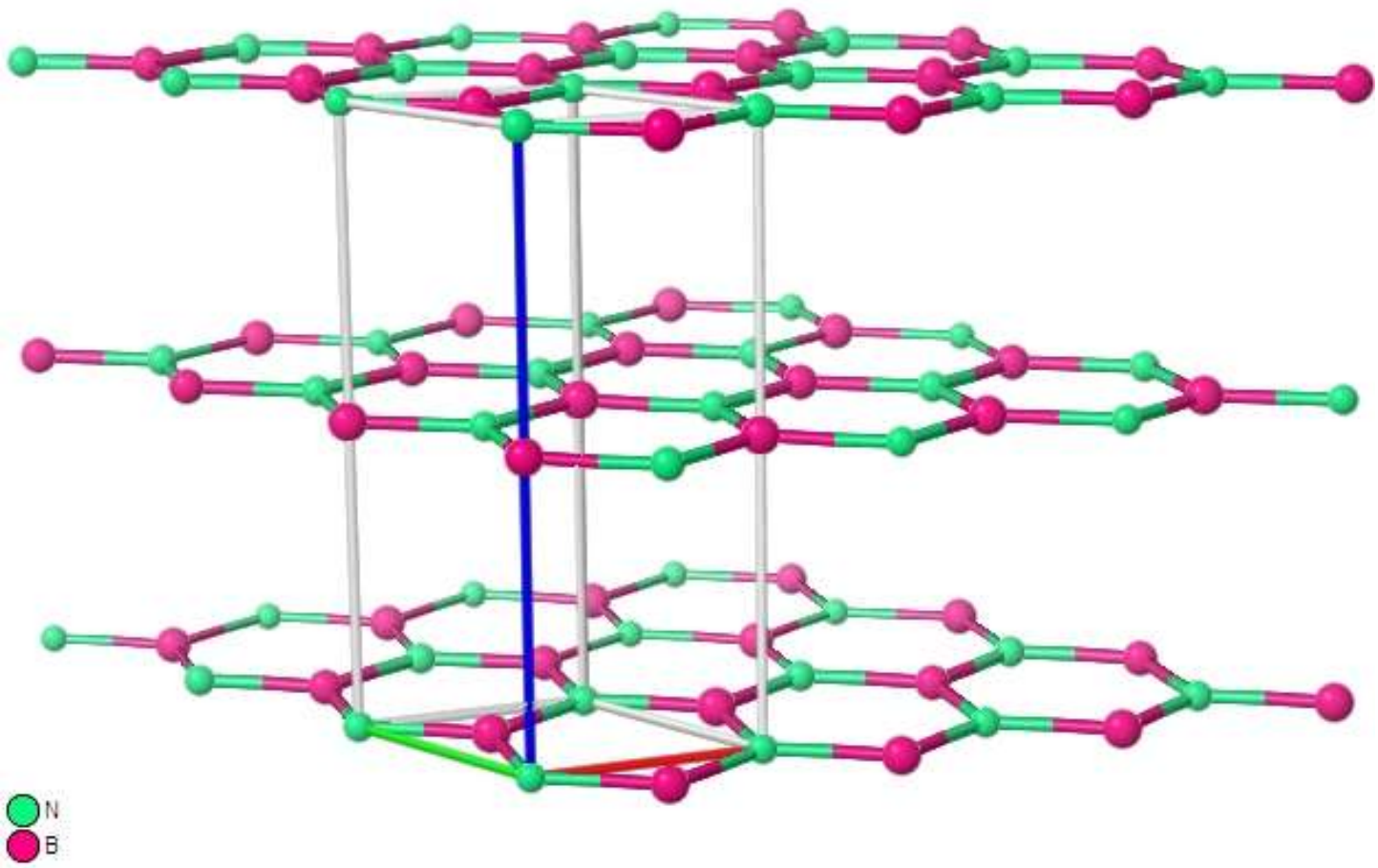
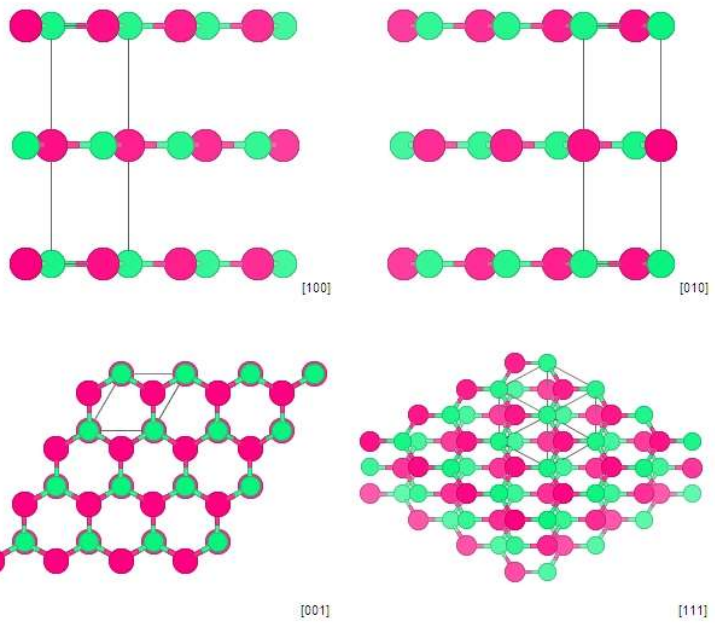


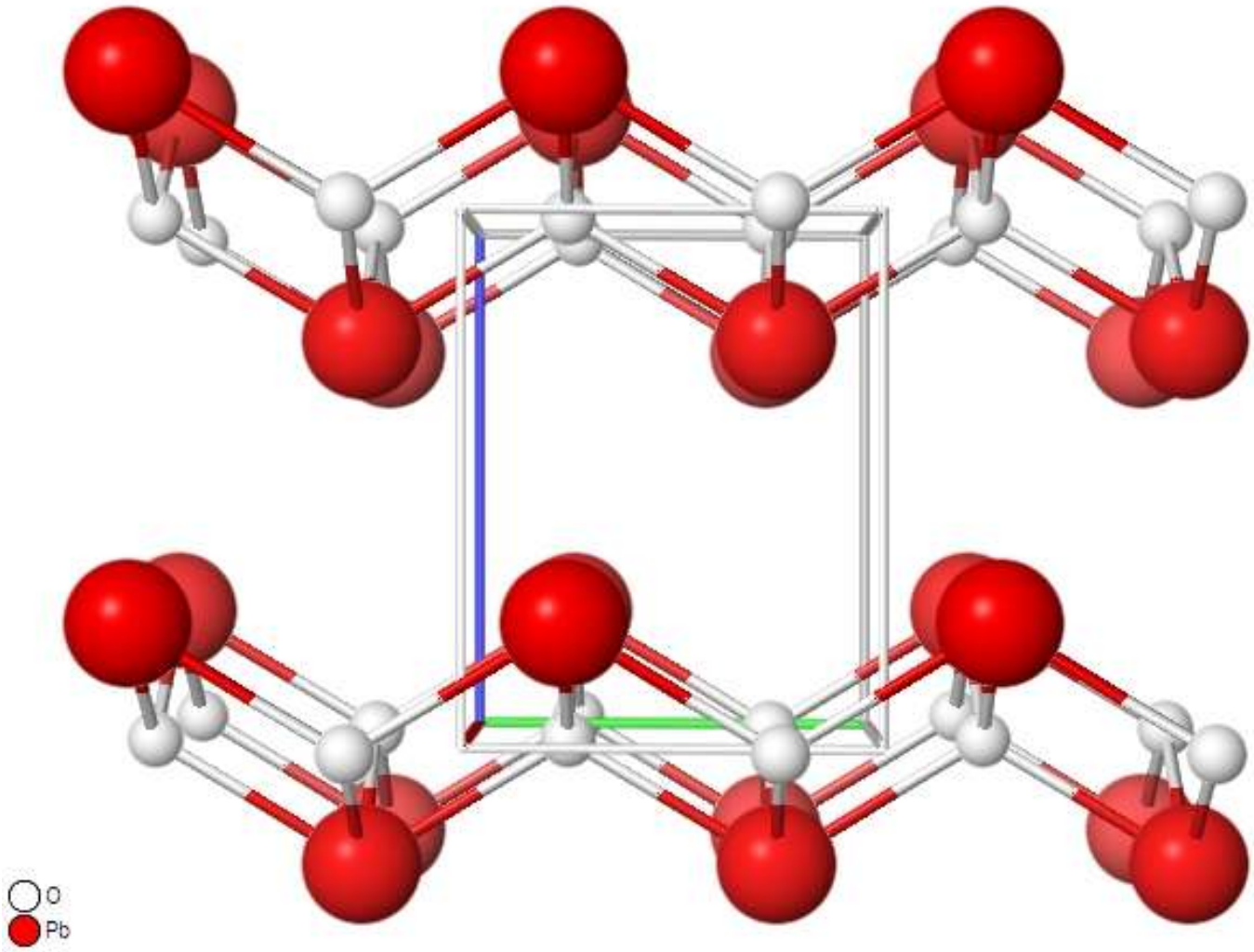


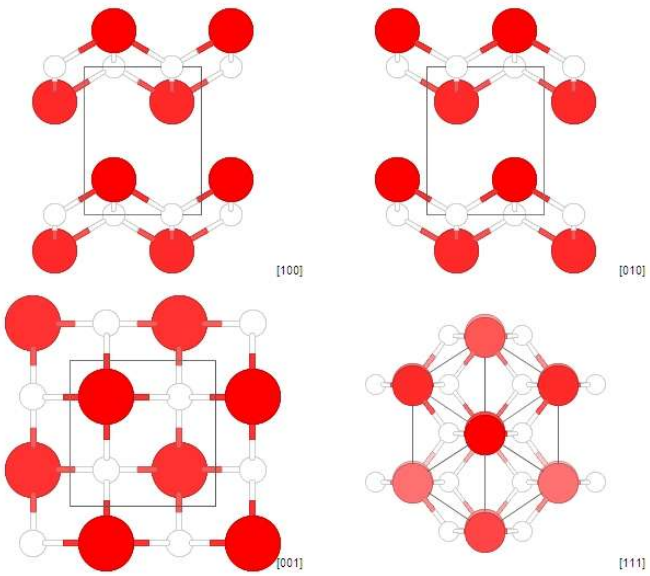
α-BN (AB)



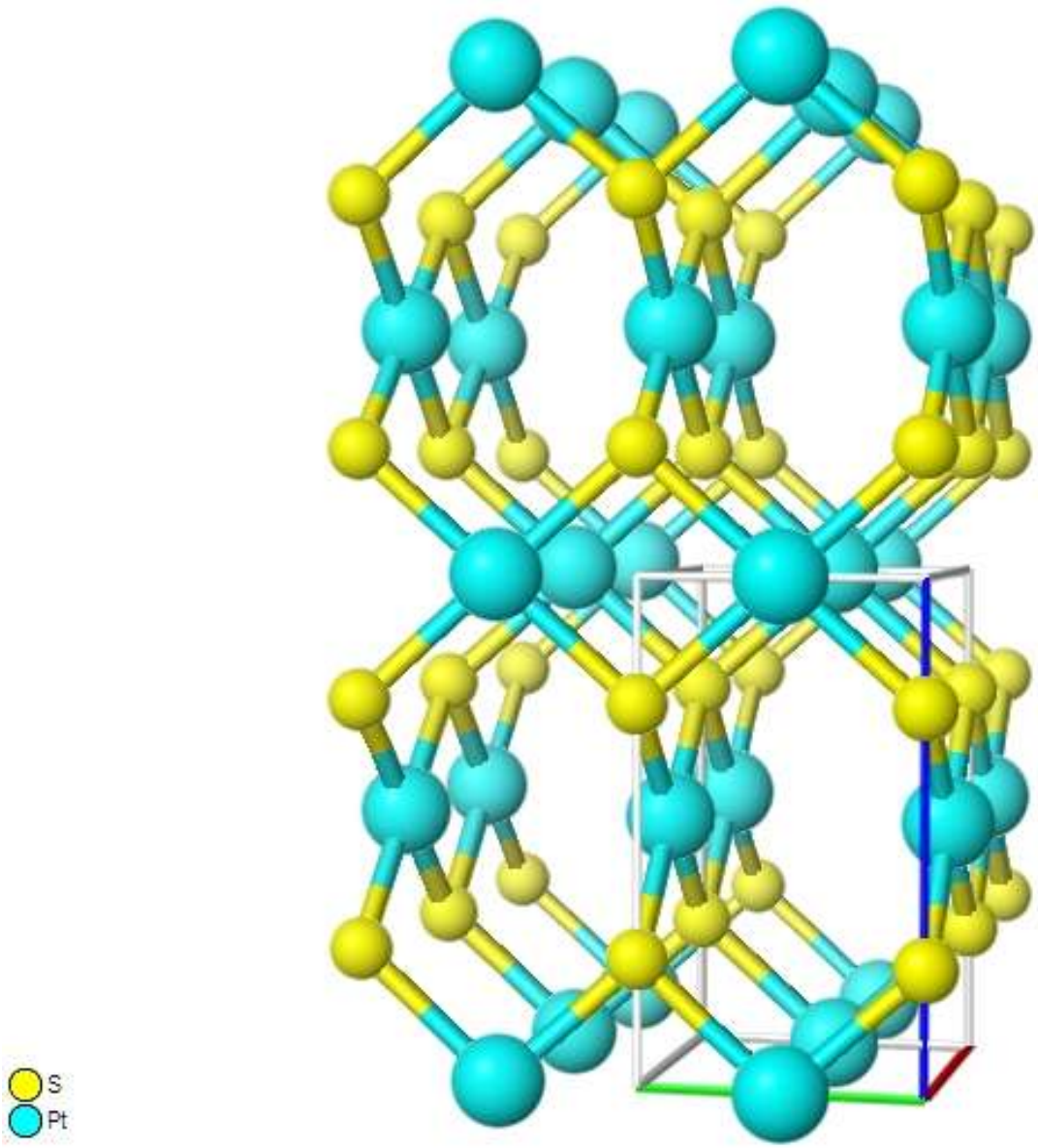


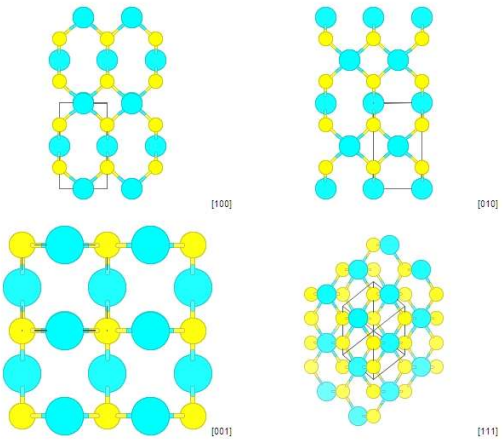
PbO *(AB, PbO-red)*



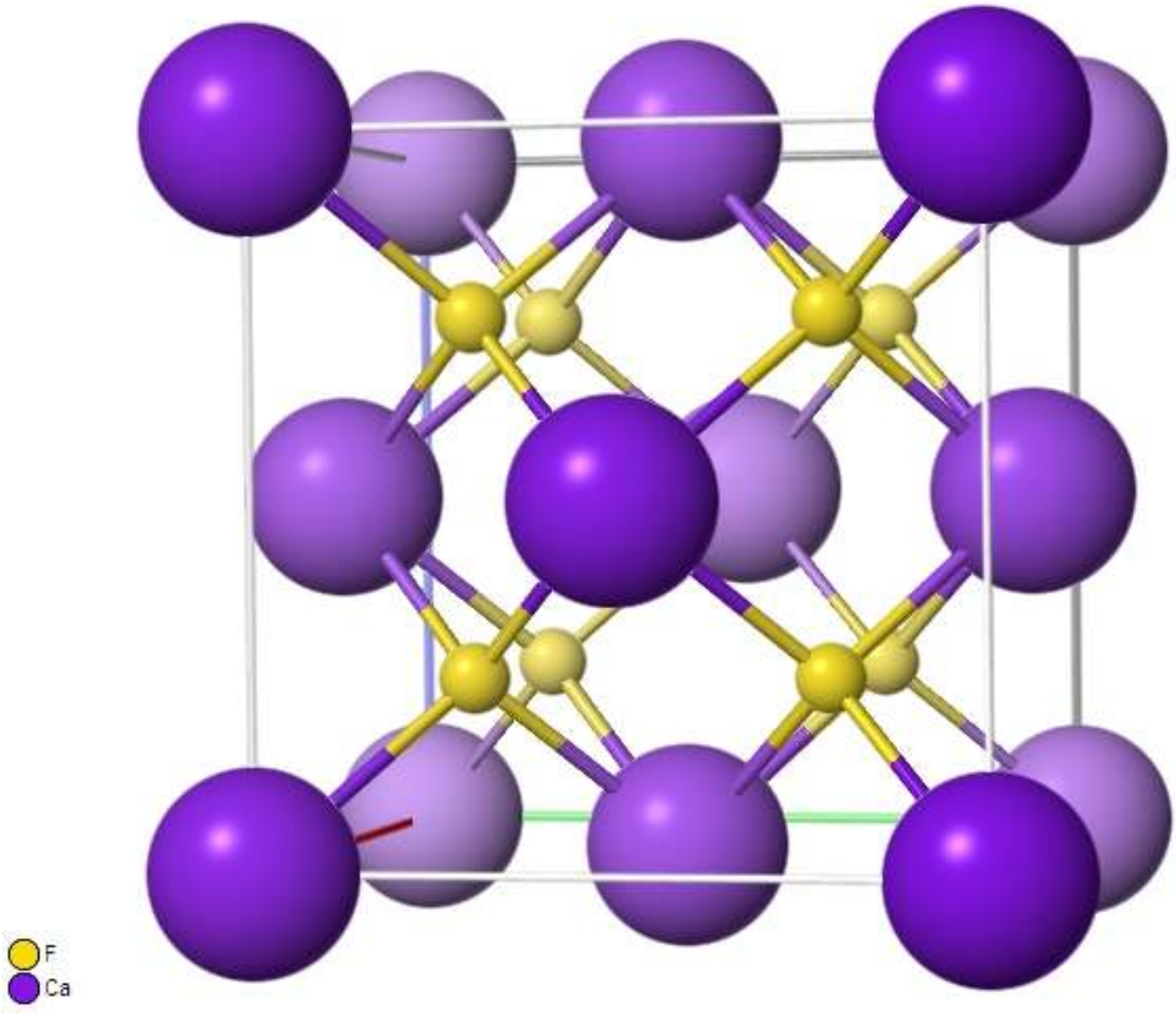


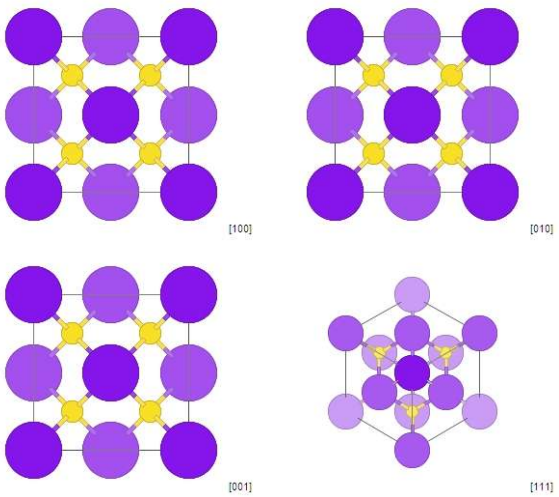
PtS *(AB)*



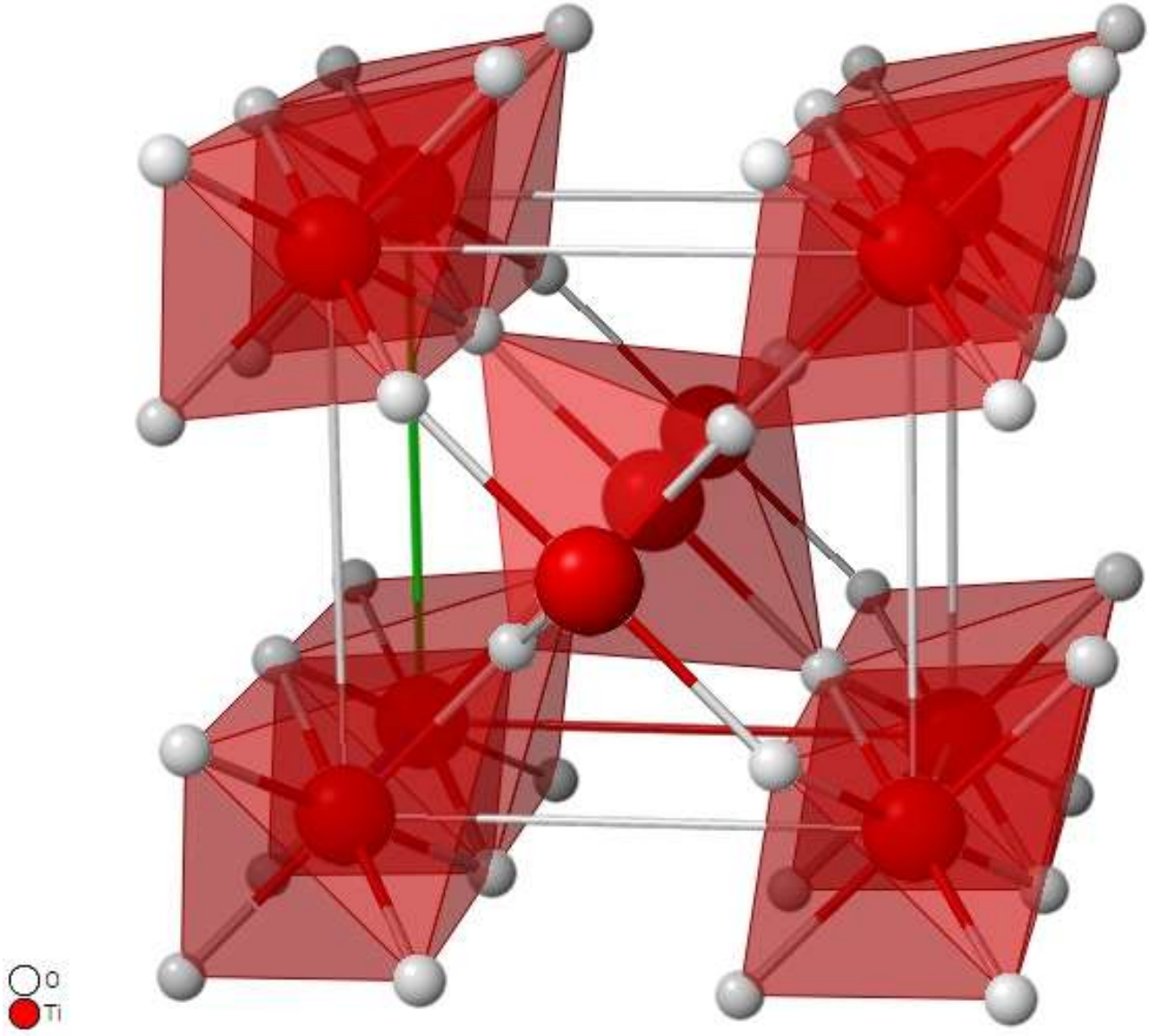


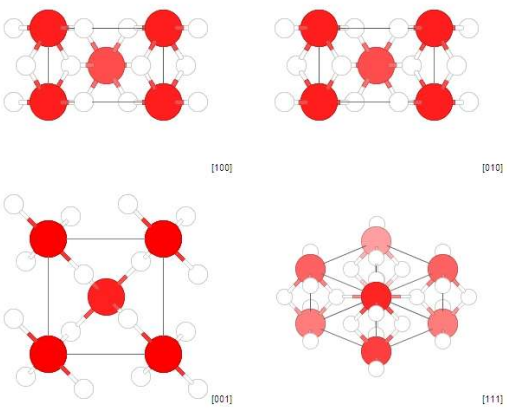
CaF_2 *(AB_2, Fluorite)*



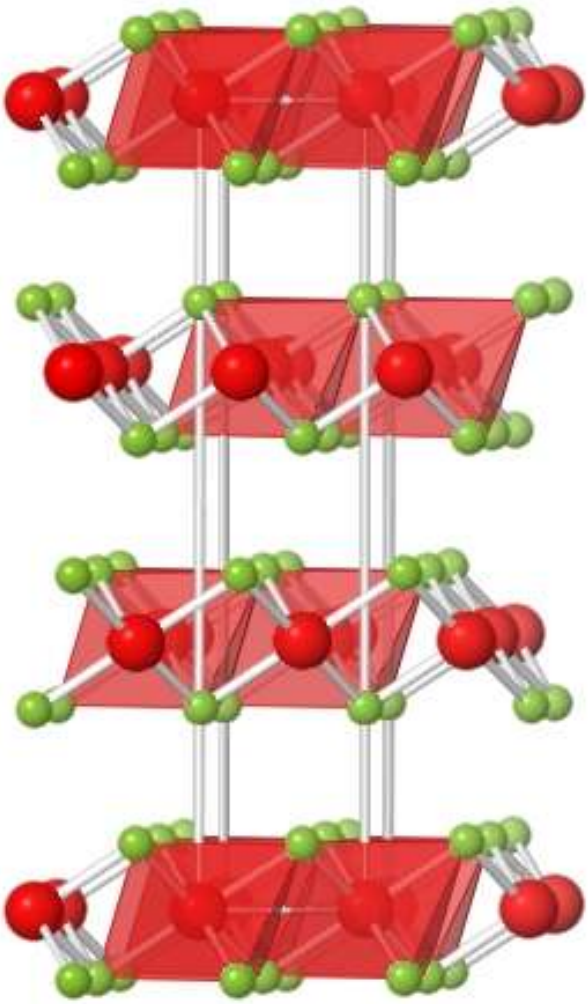


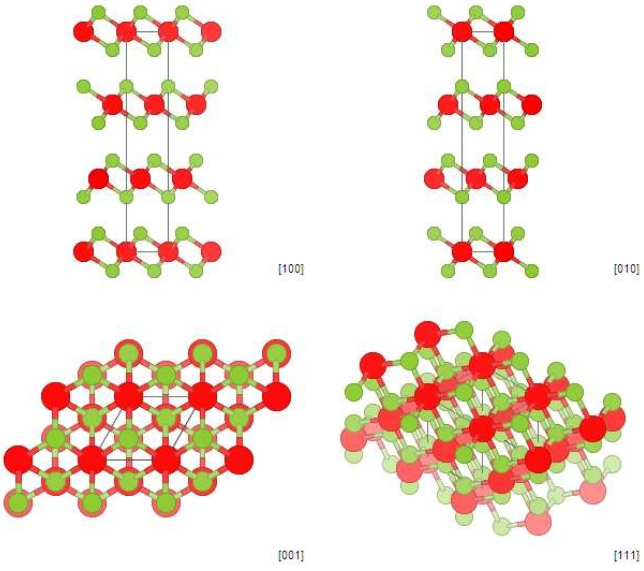
TiO_2 *(AB_2 , Rutile)*





$CdCl_2$ (AB_2)





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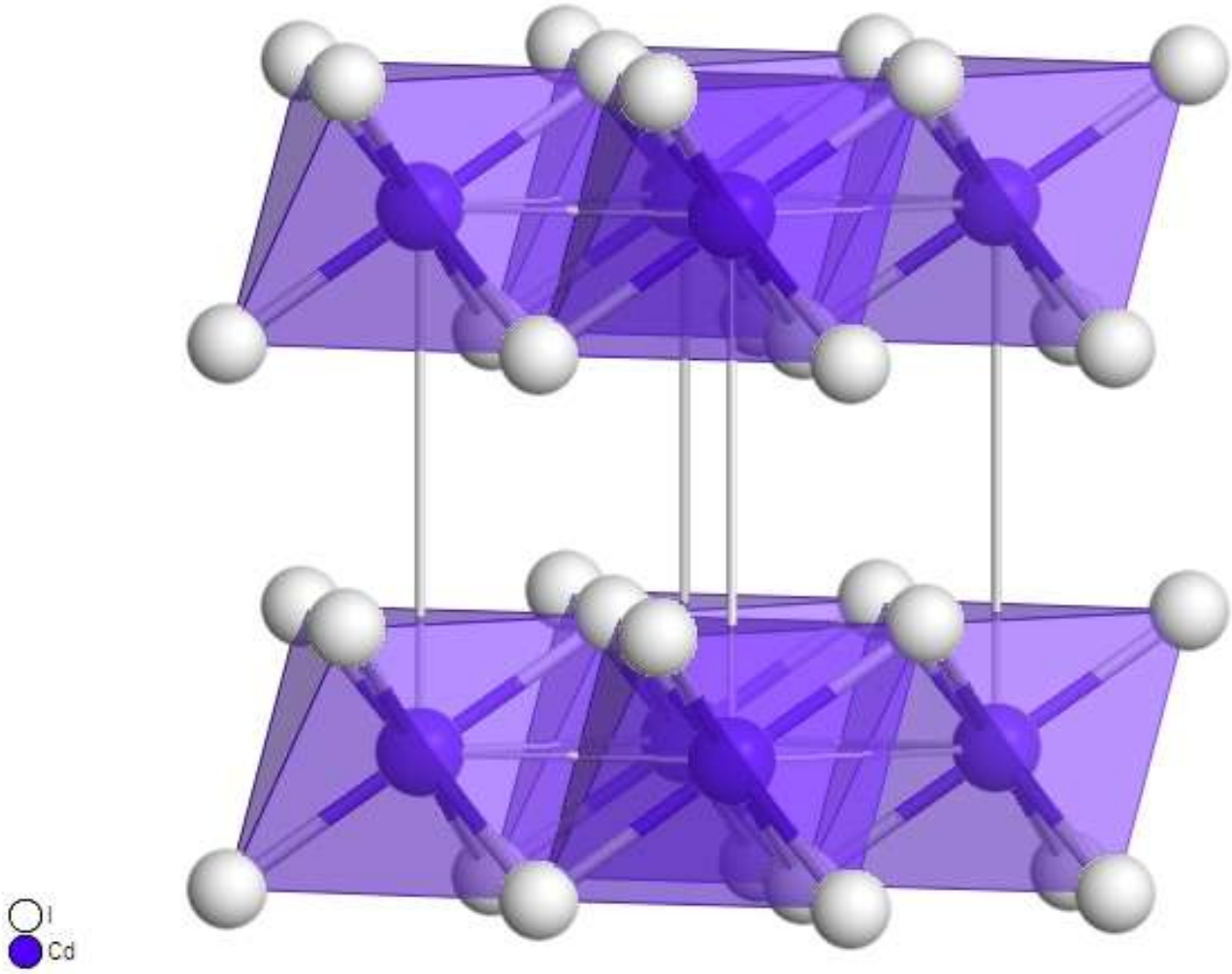
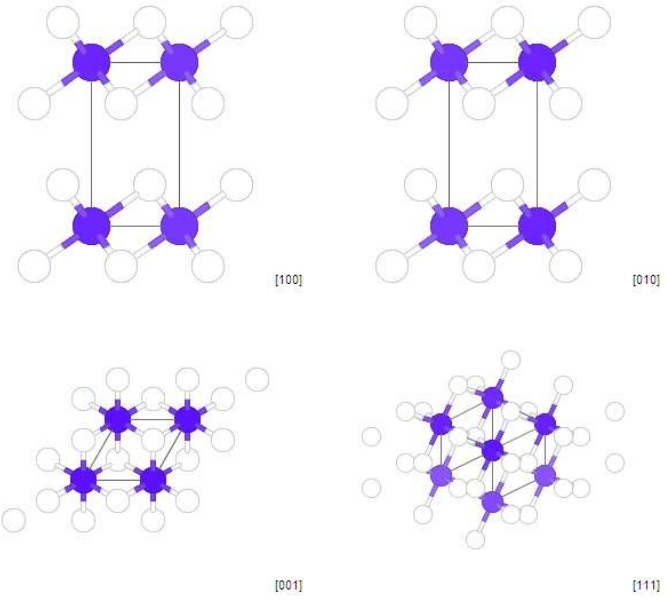
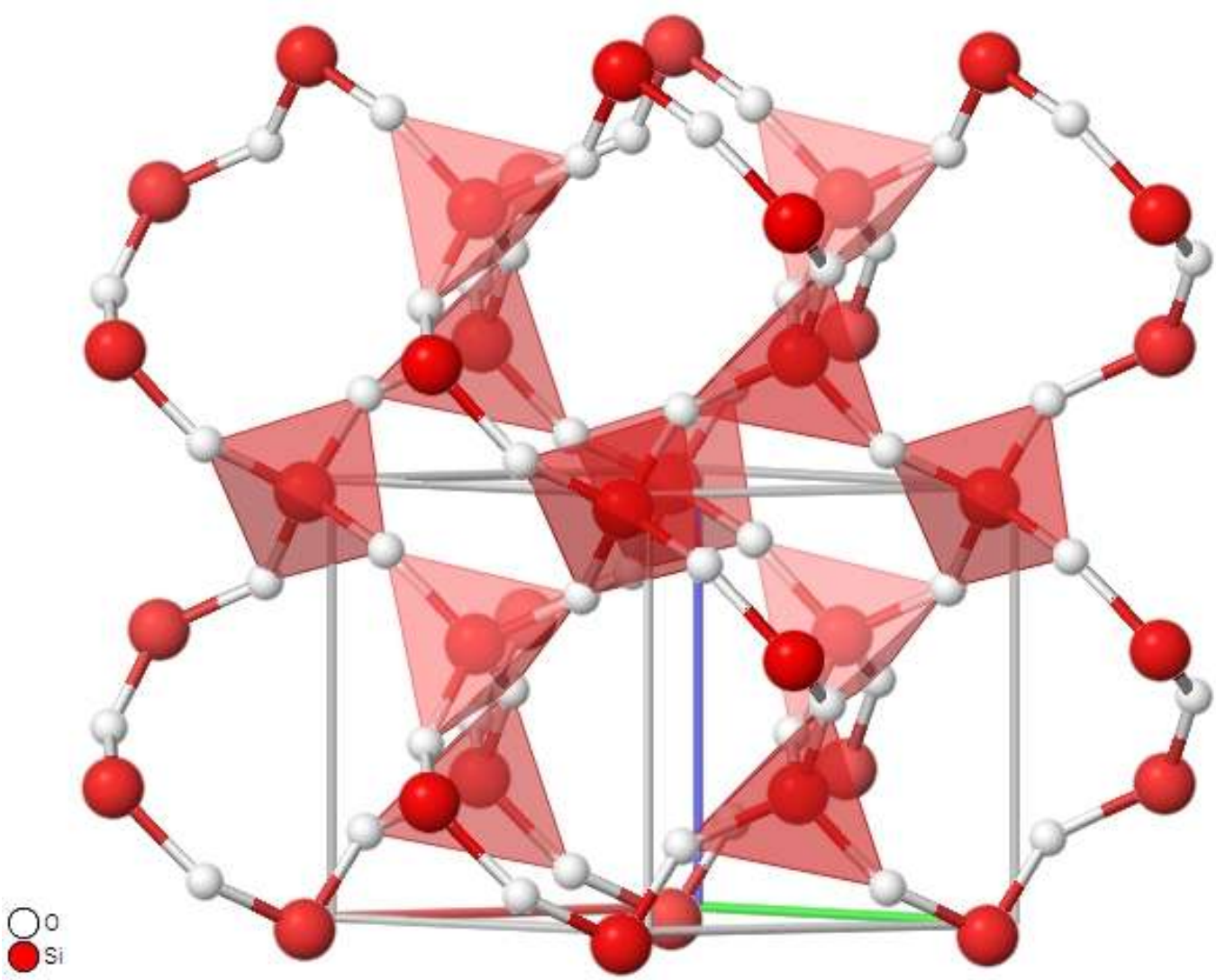
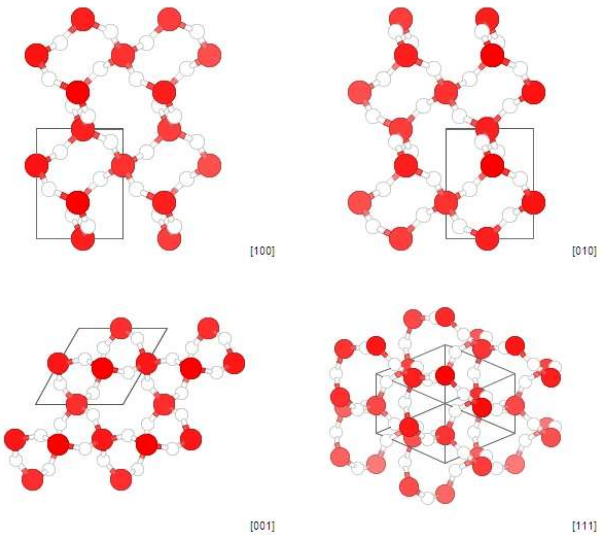


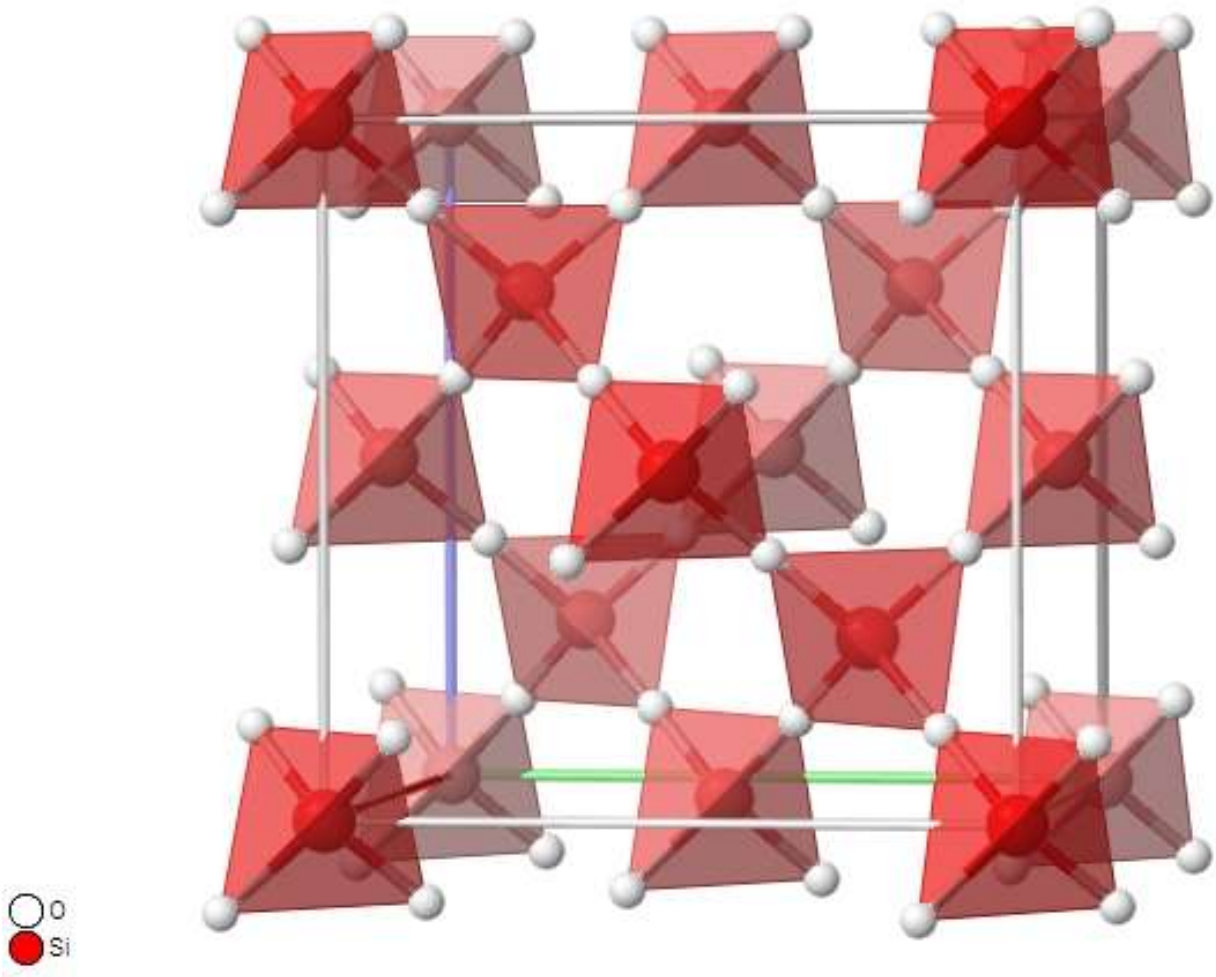


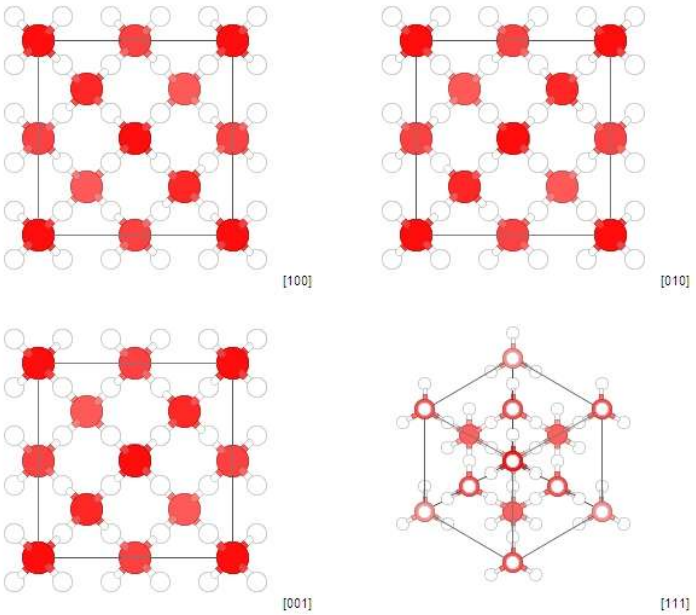
SiO_2 *(AB_2, Quartz)*



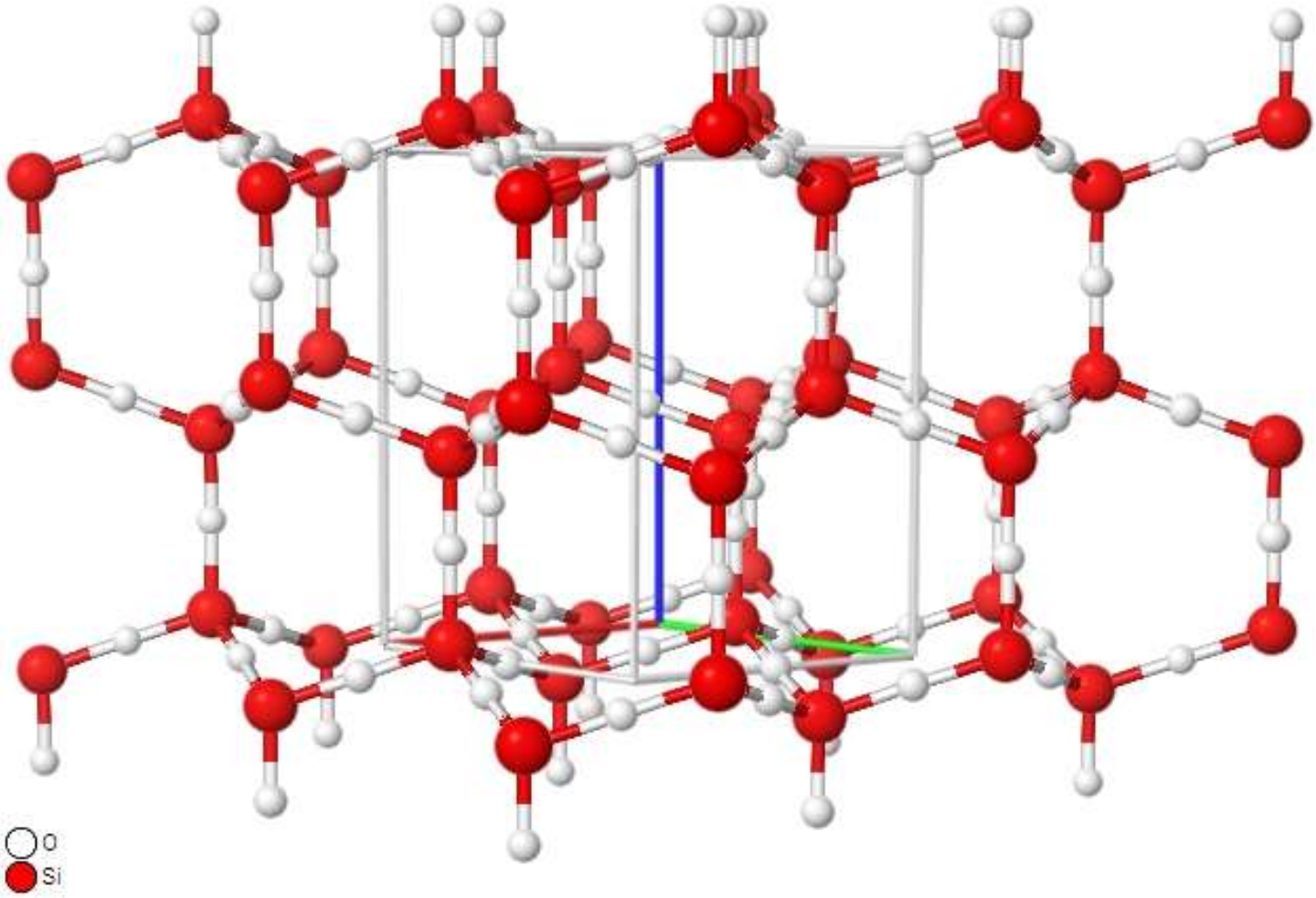


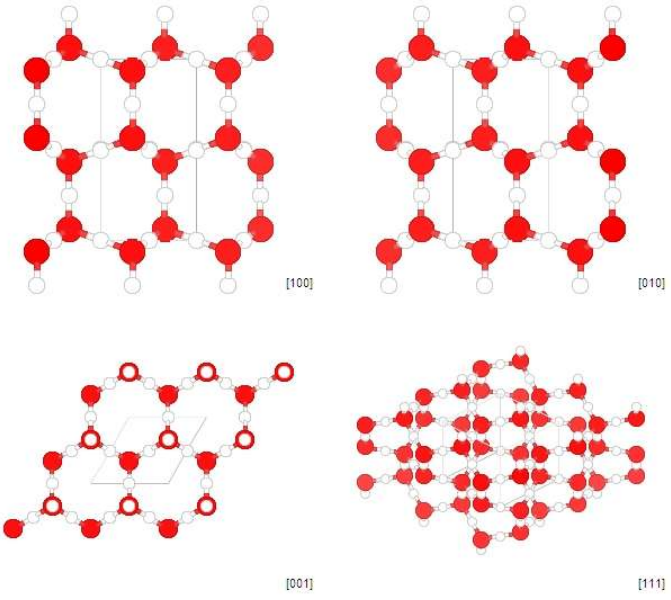
SiO_2 *(AB_2, Cristobalite)*



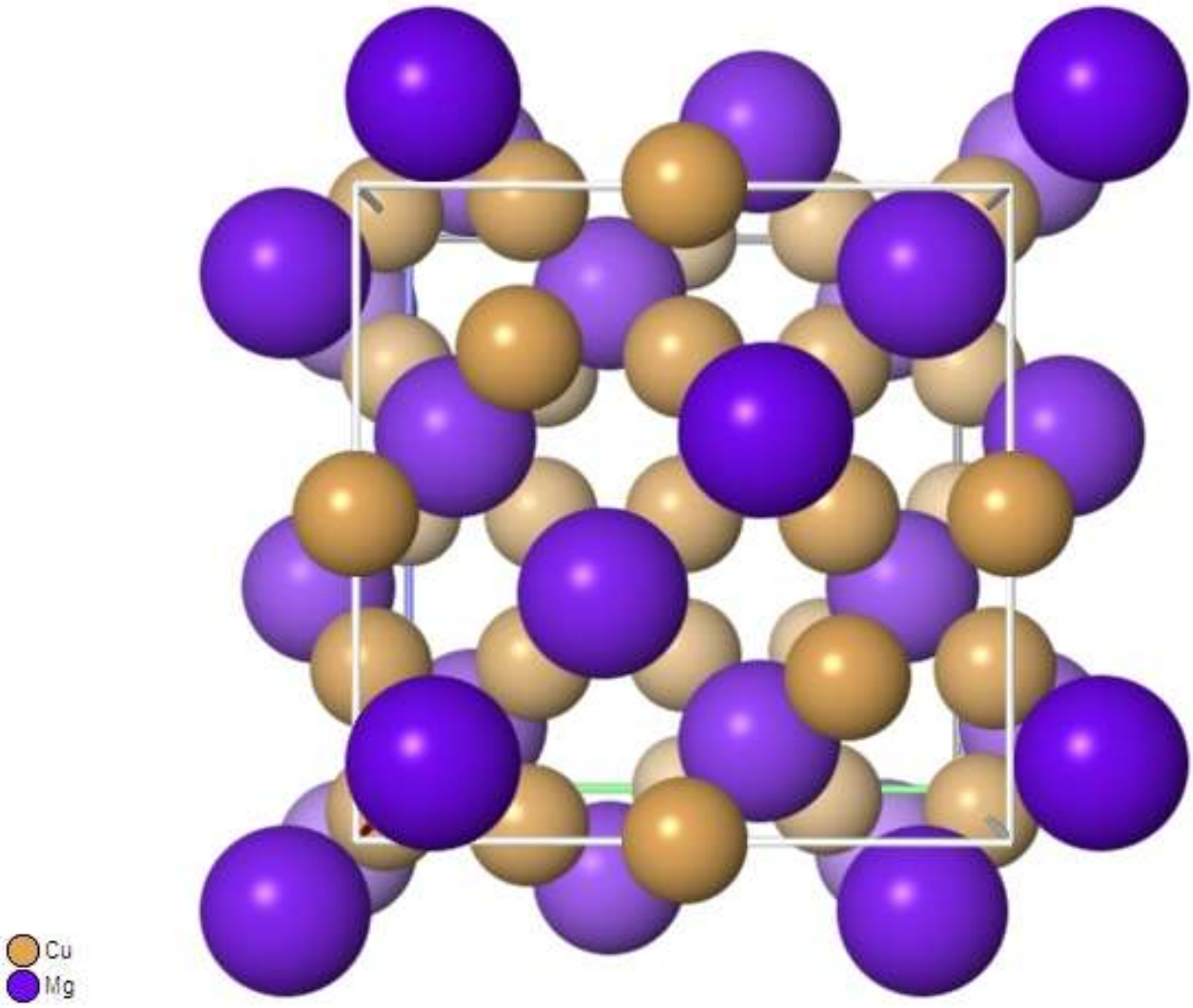


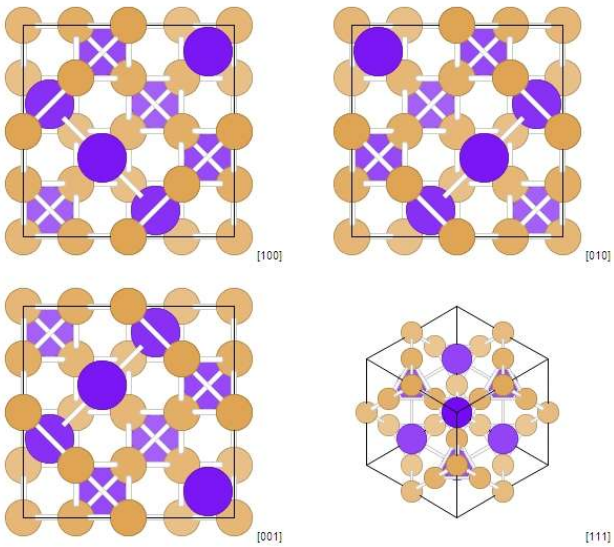
SiO_2 *(AB_2, Tridymite)*



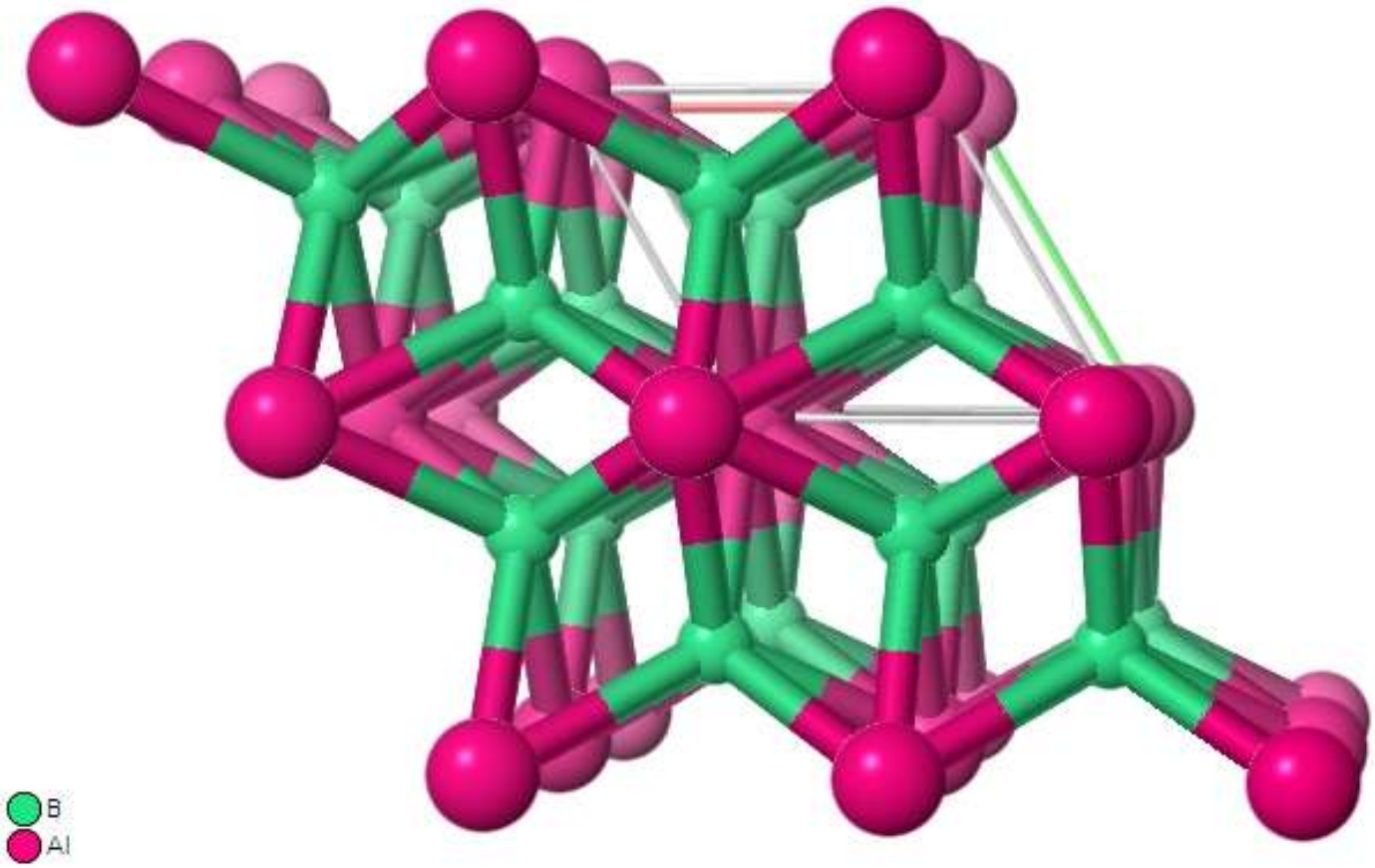


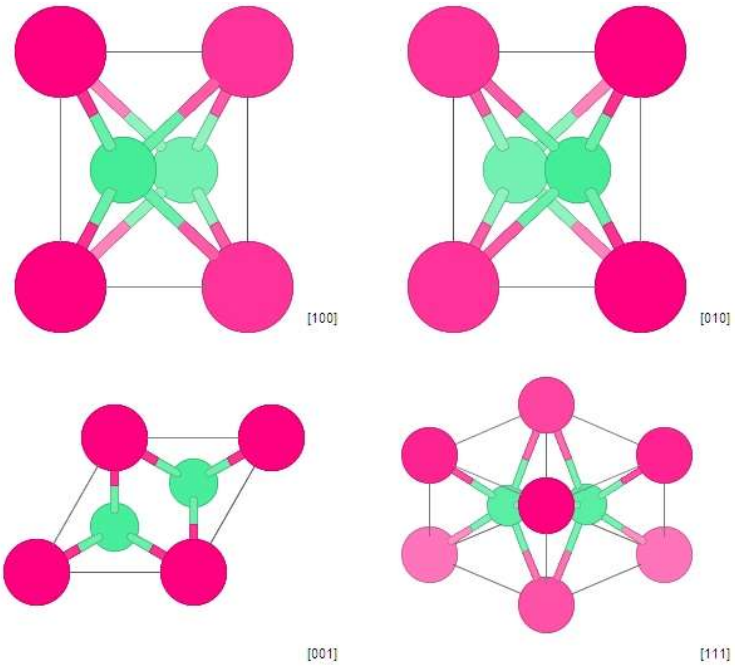
$MgCu_2$ (AB_2)



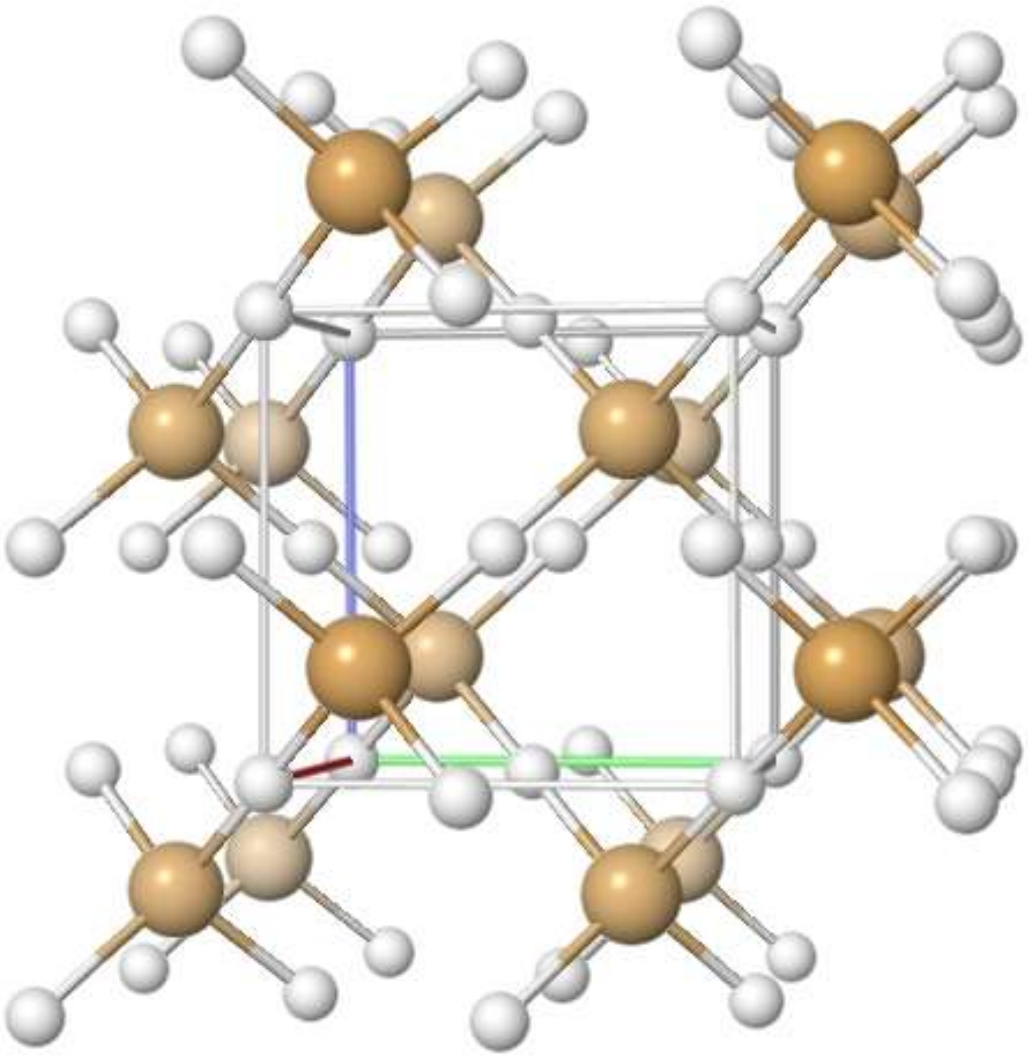


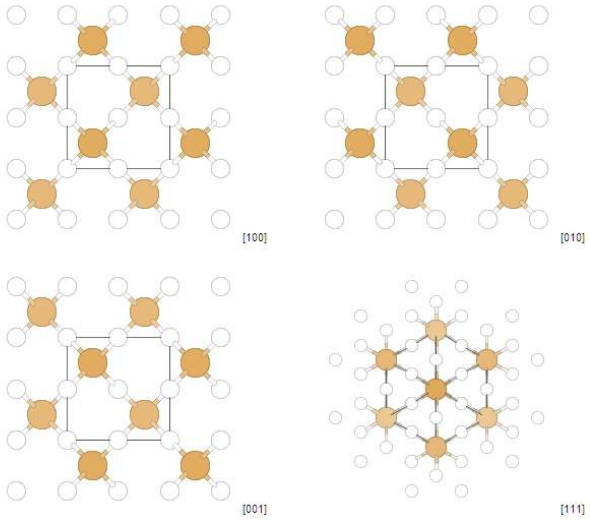
AlB_2 (AB_2)



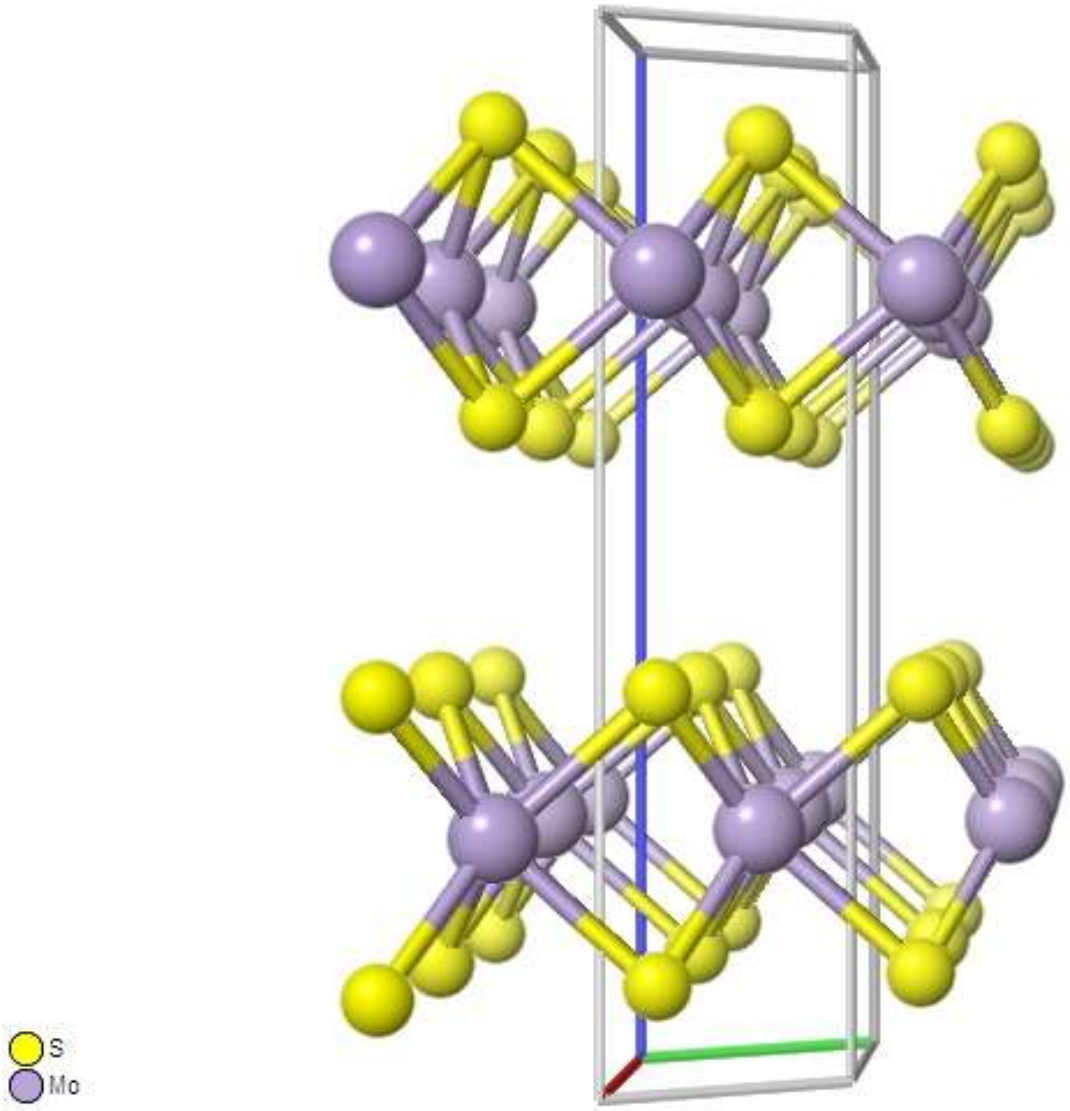


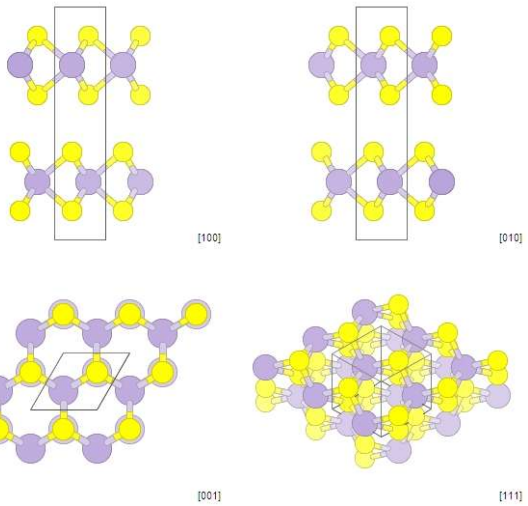
Cu_2O (AB_2)



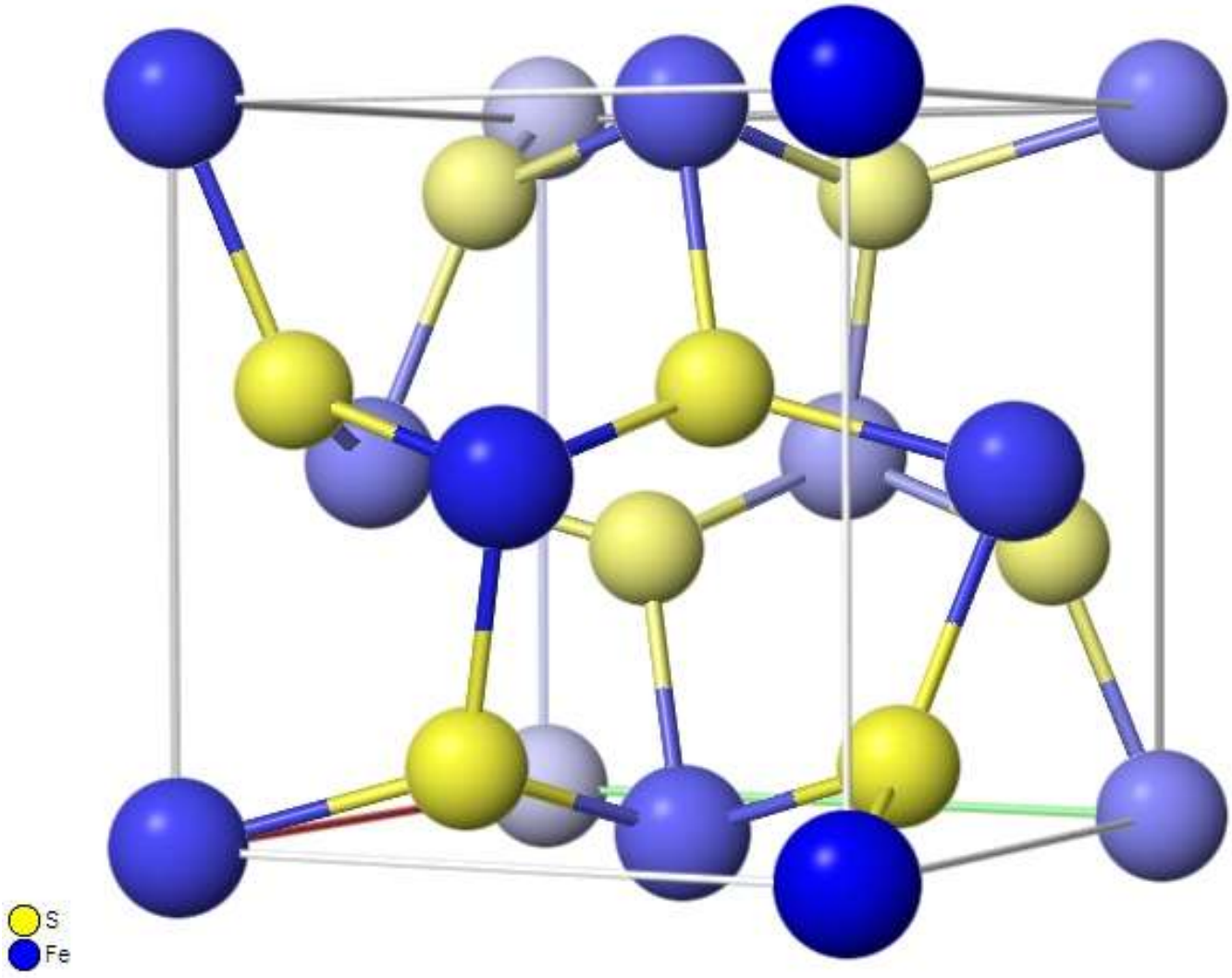


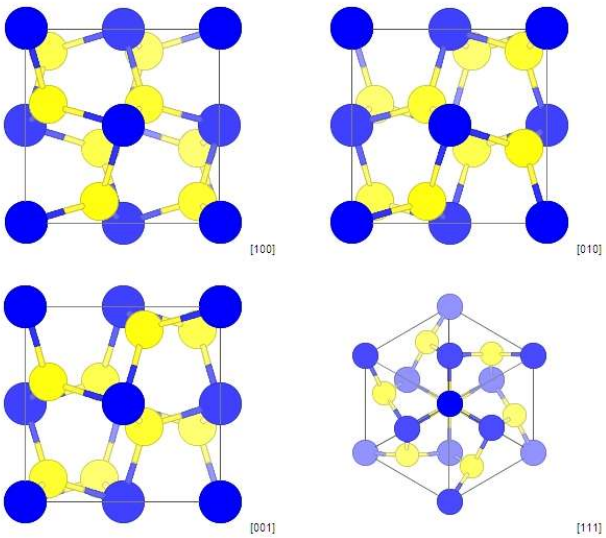
MoS_2 (AB_2)



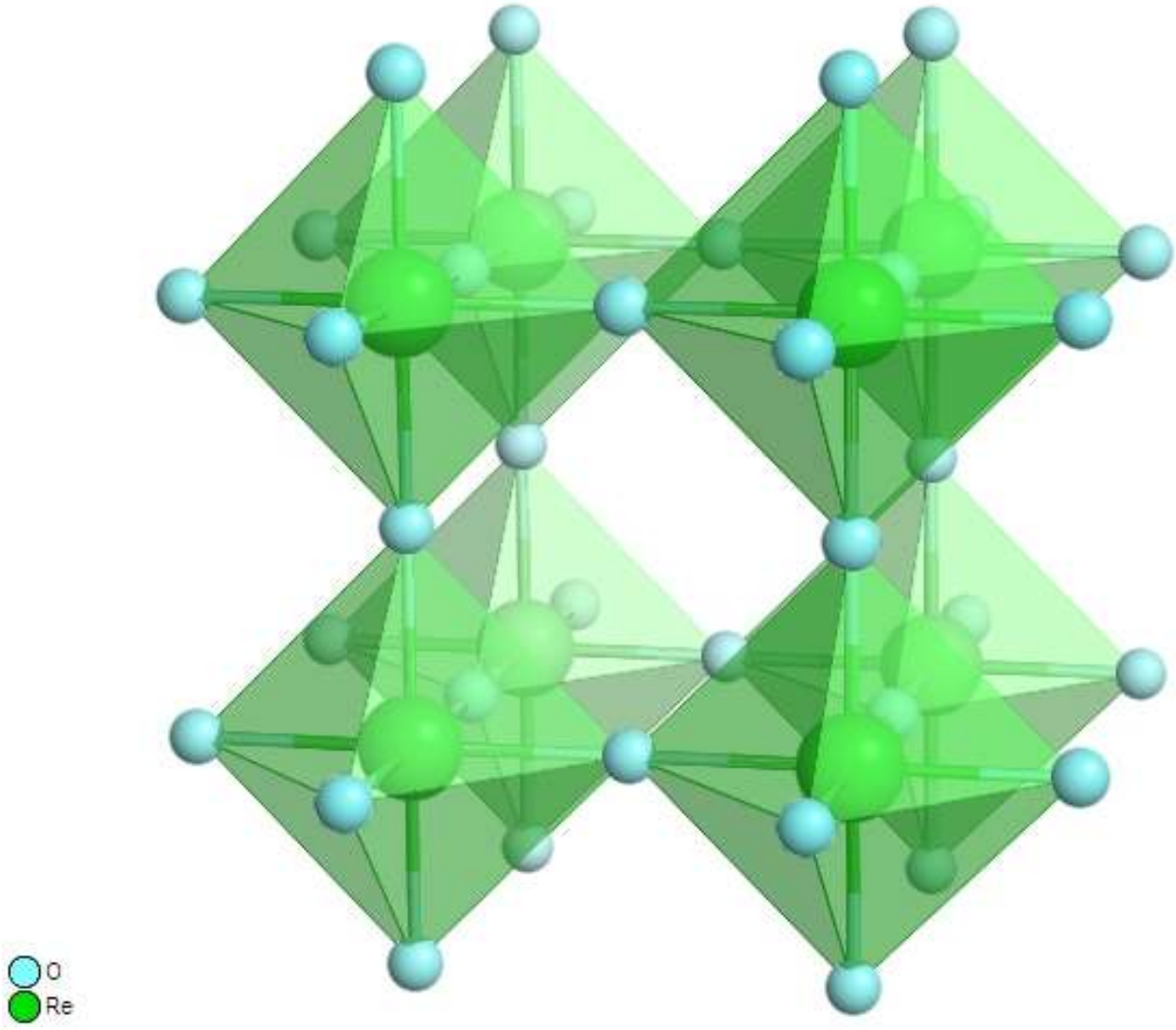


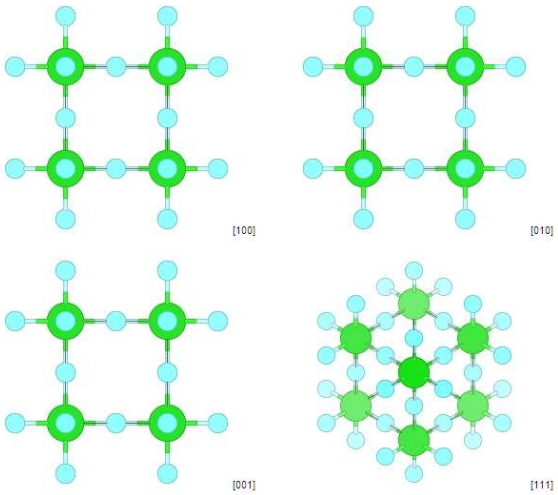
FeS_2 *(AB_2, Pyrite)*



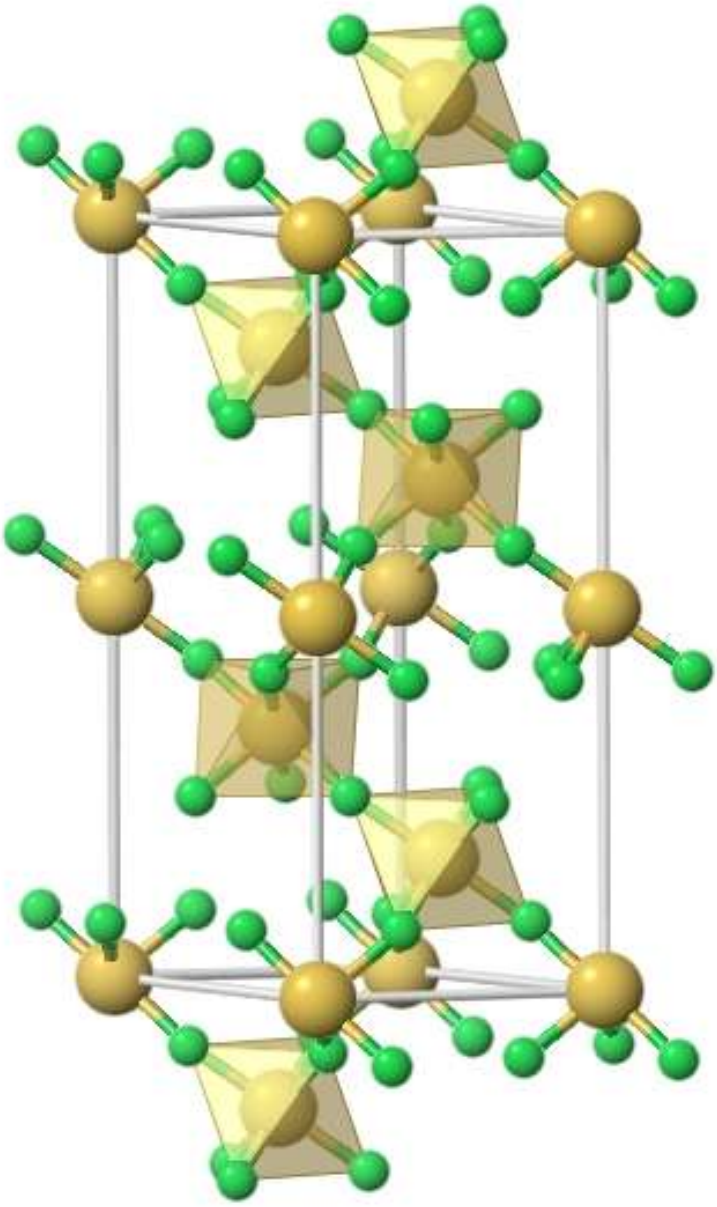


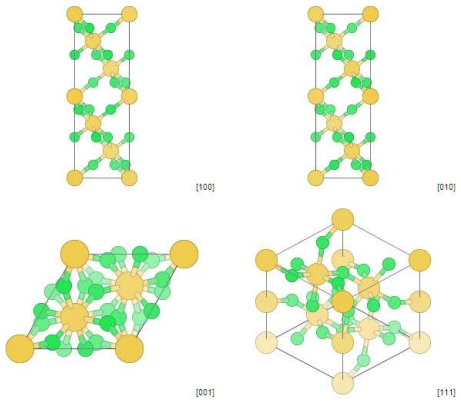
ReO_3 (AB_3)



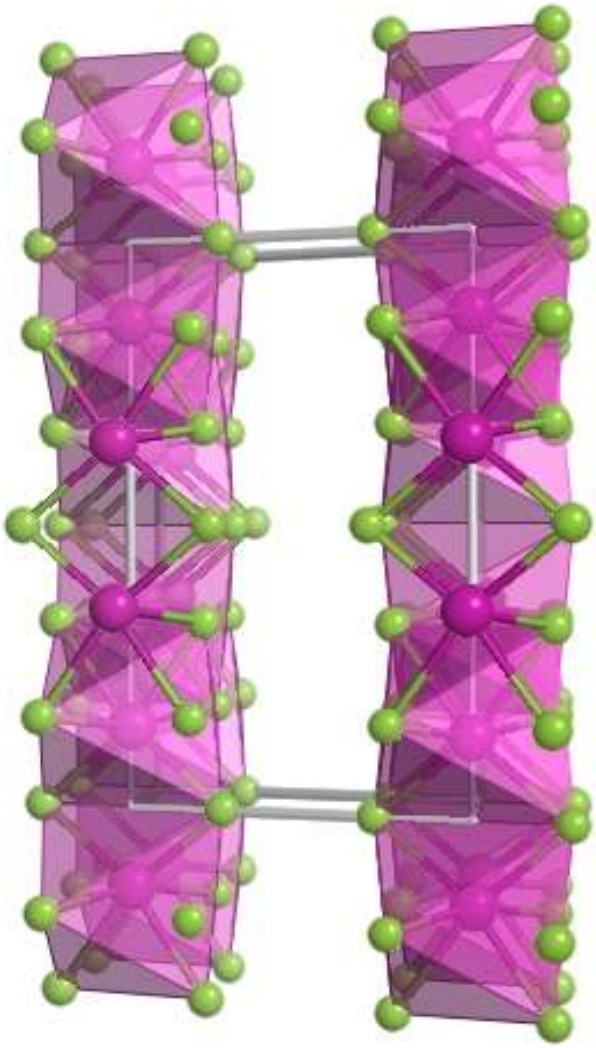


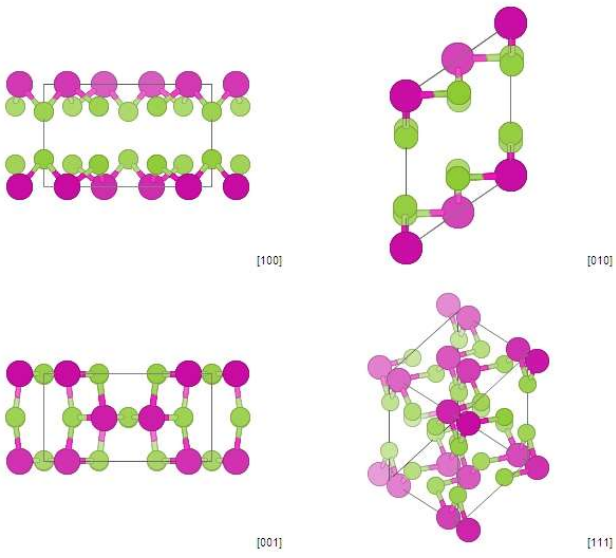
VF_3 (AB_3)



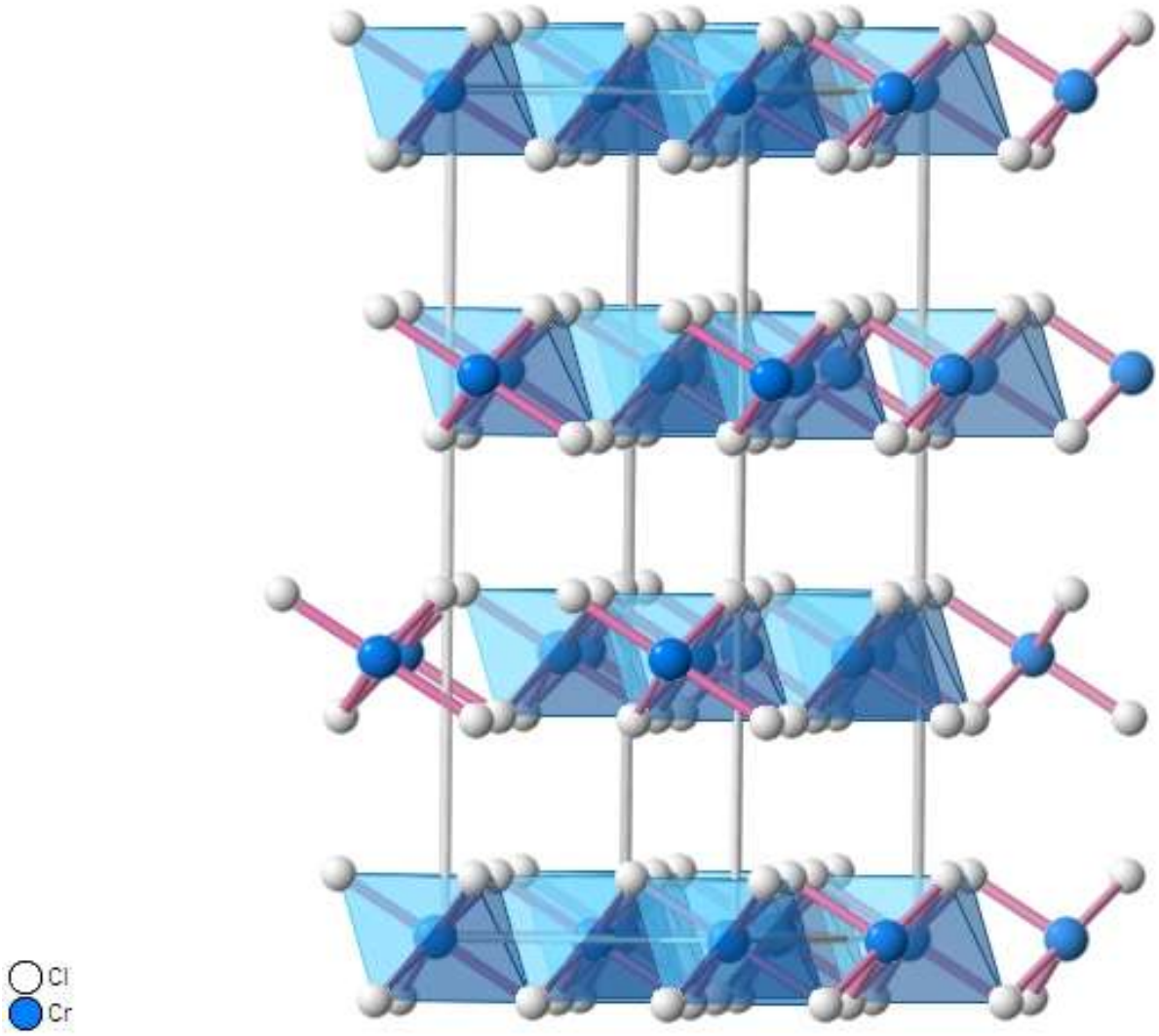


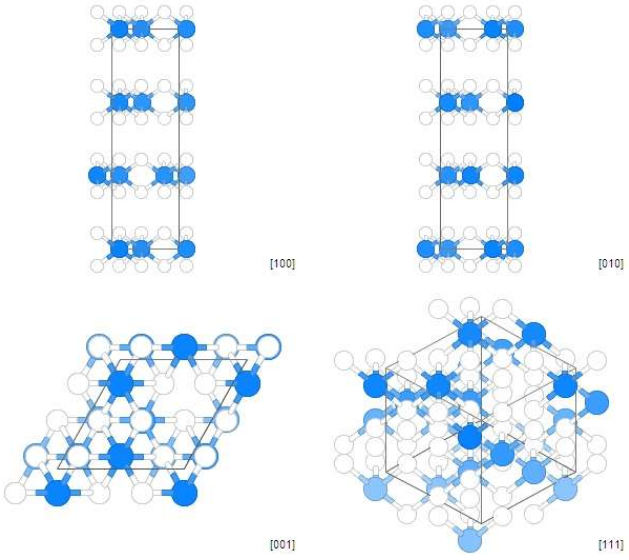
$MoCl_3$ (AB_3)



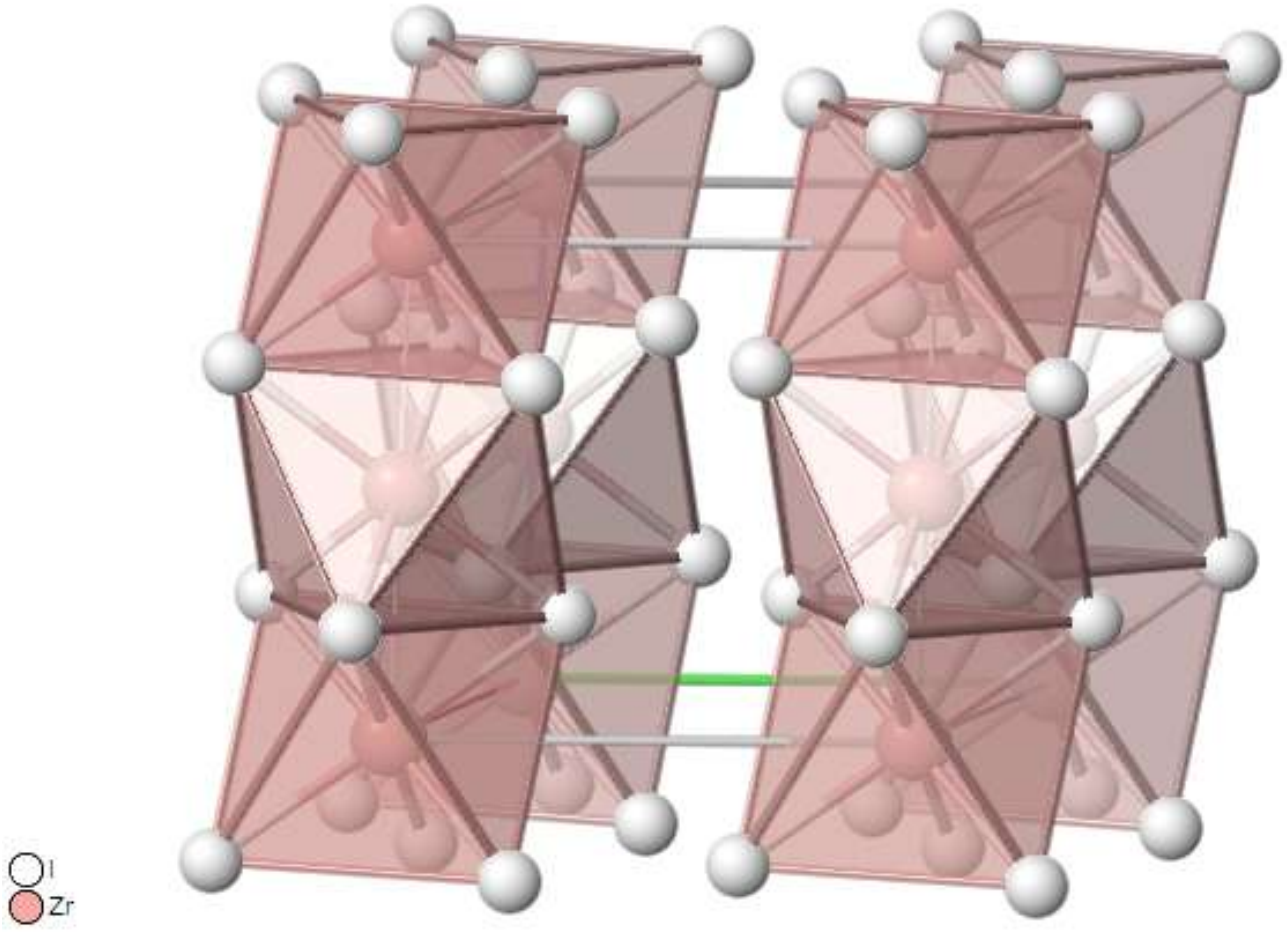


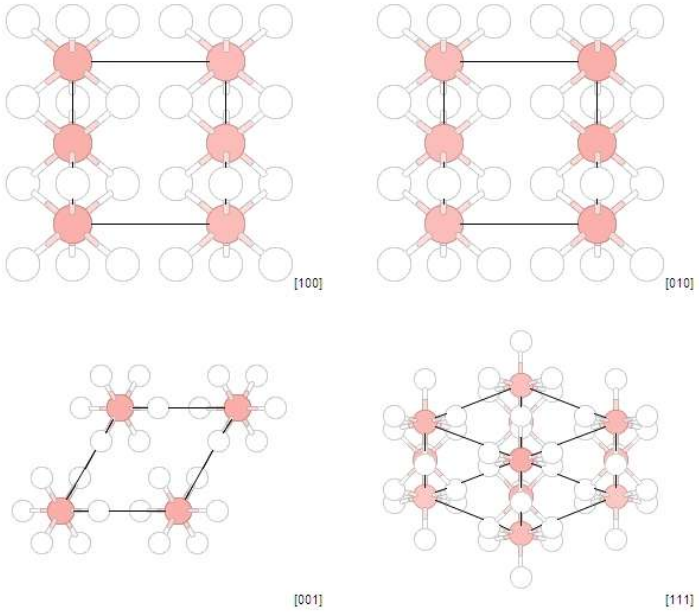
$CrCl_3$ (AB_3)



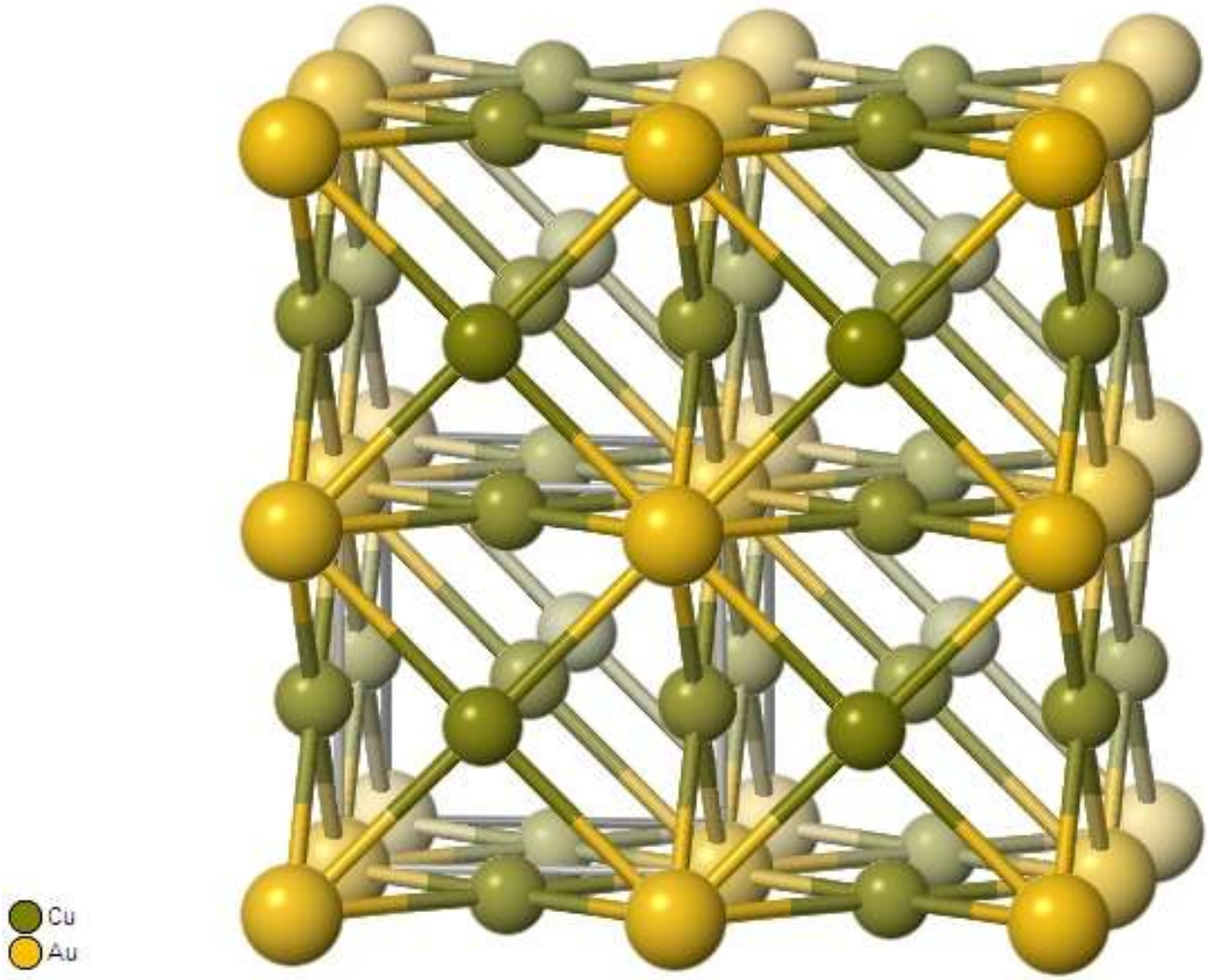


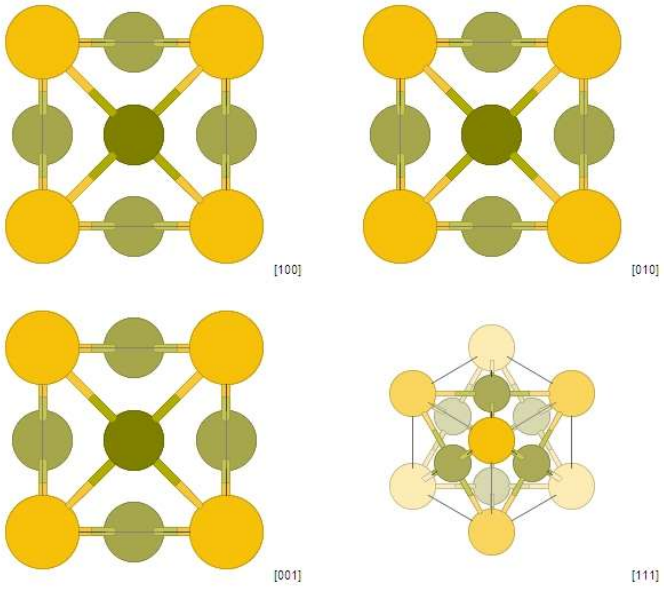
ZrI_3 (AB_3)



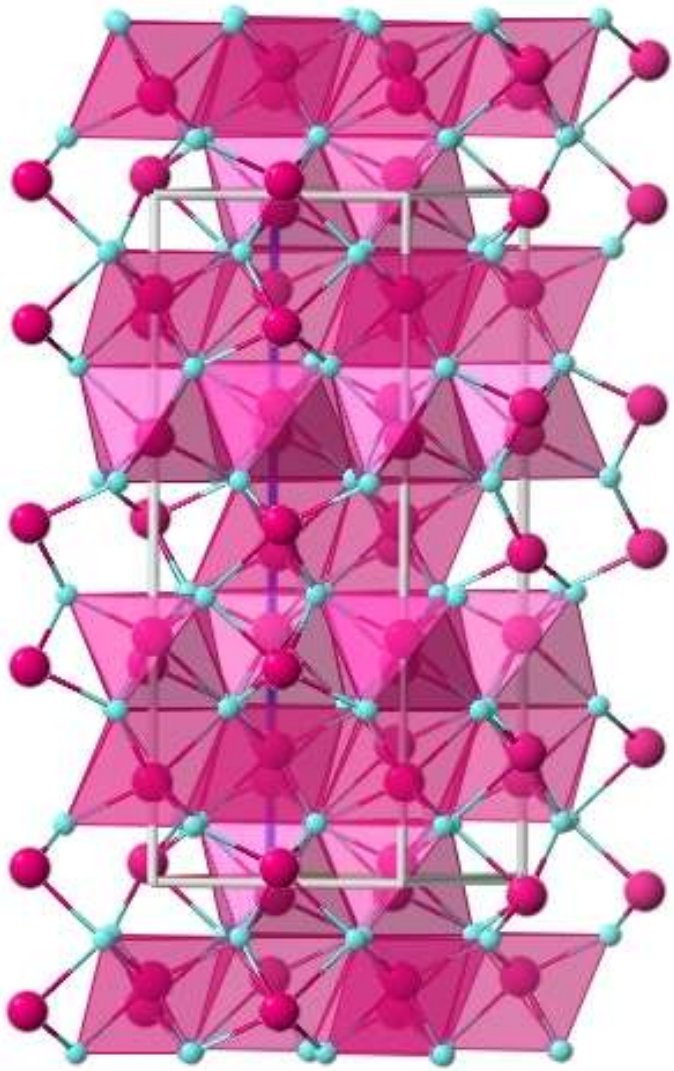


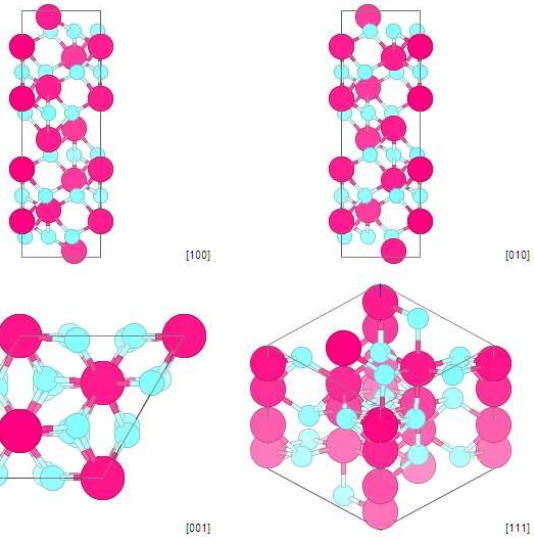
Cu_3Au (AB_3)



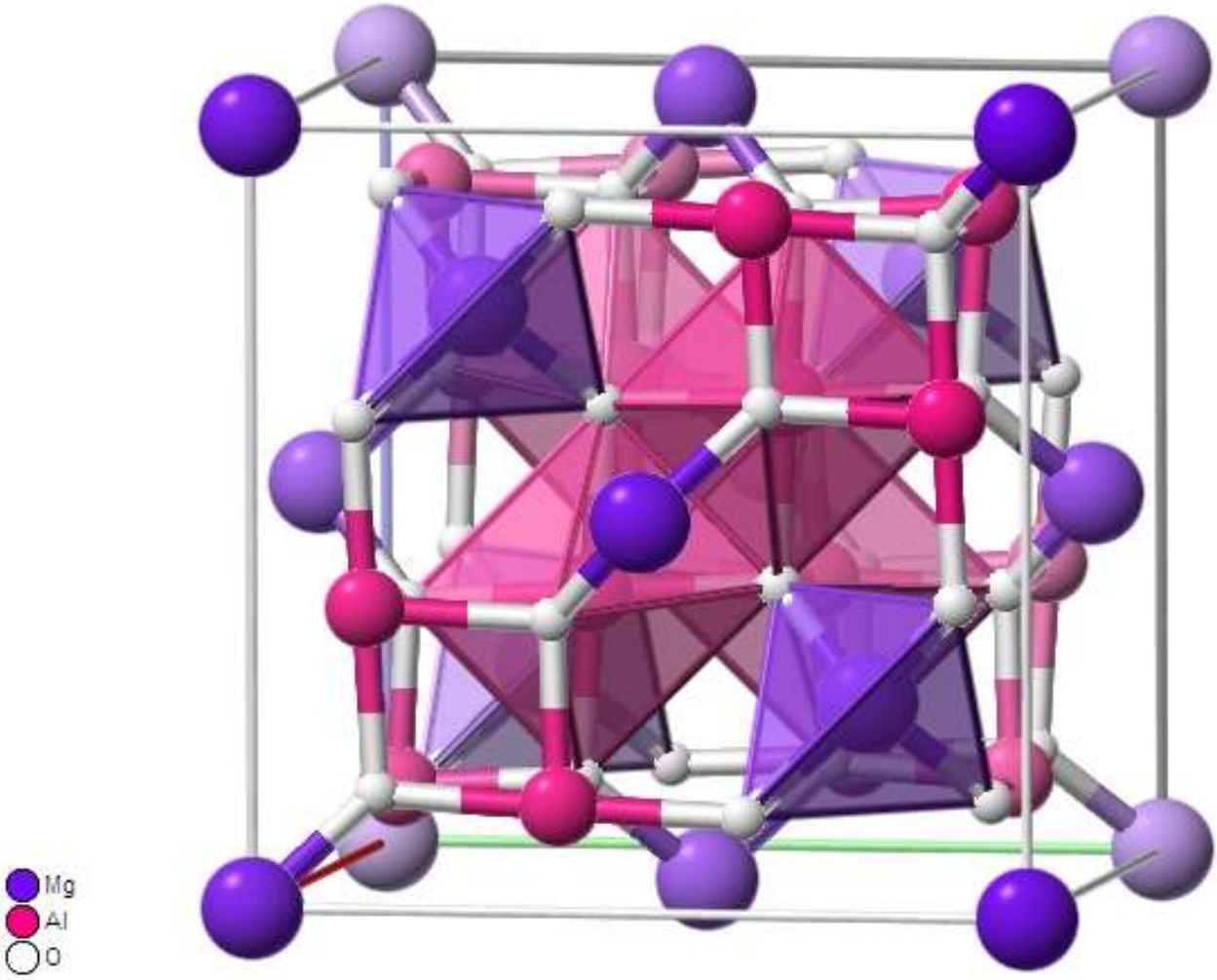


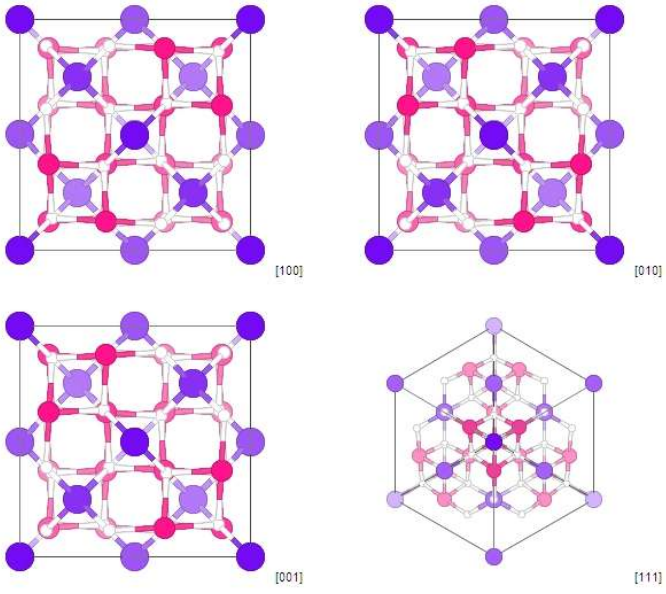
Al_2O_3 (A_2B_3, Corundum)



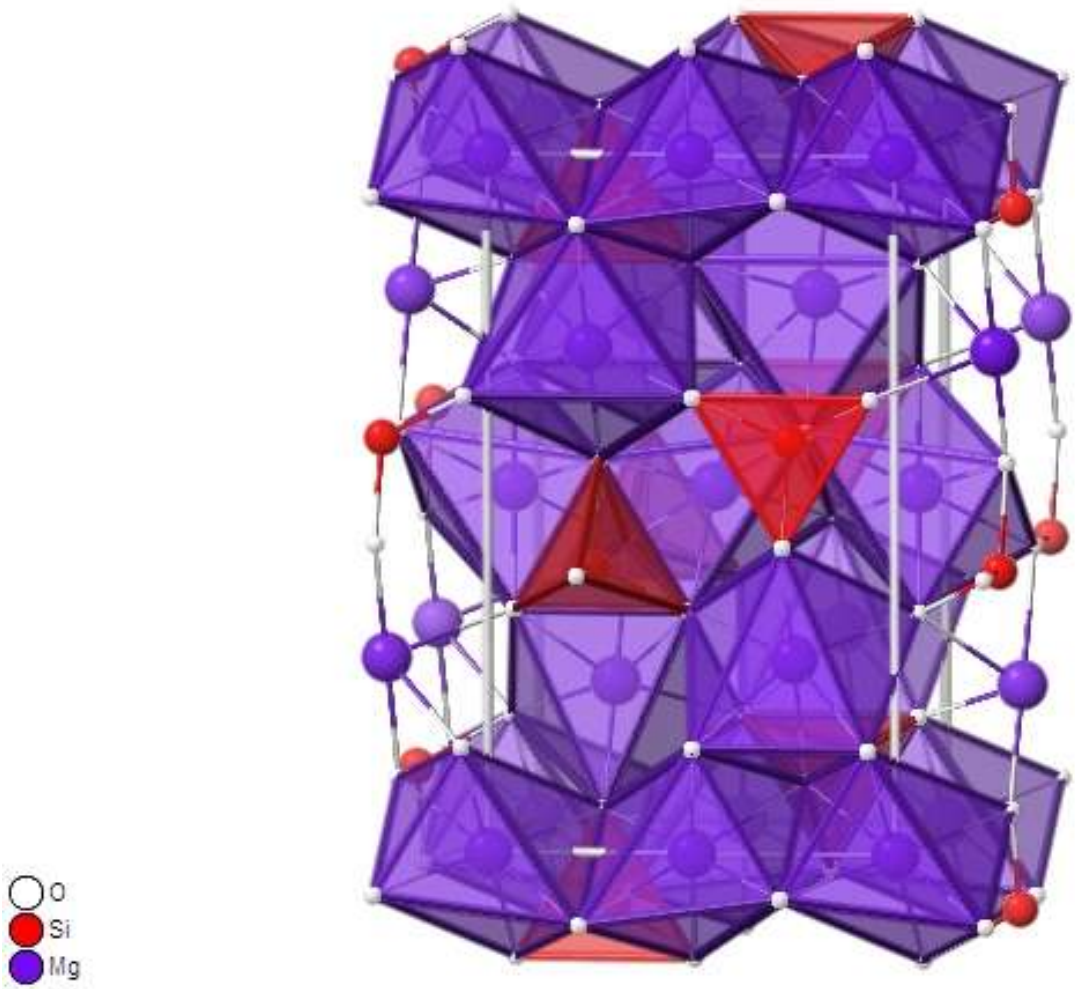


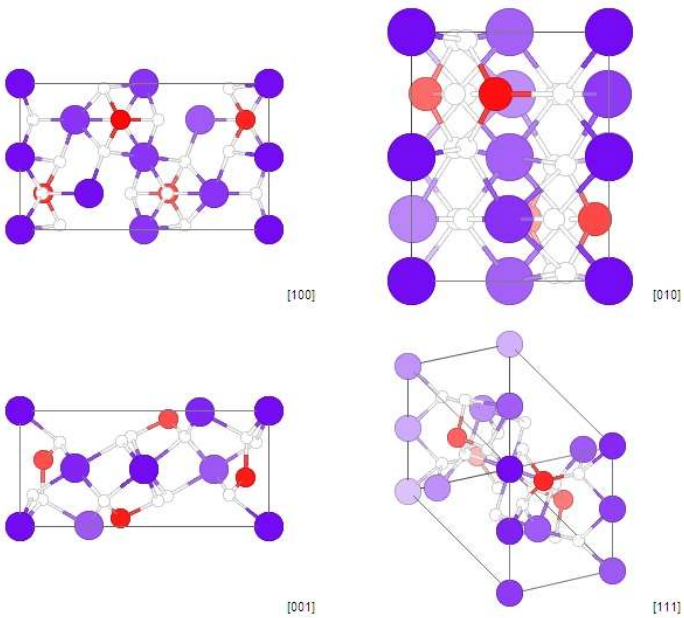
$MgAl_2O_3$ *(A_3B_4, Spinel)*



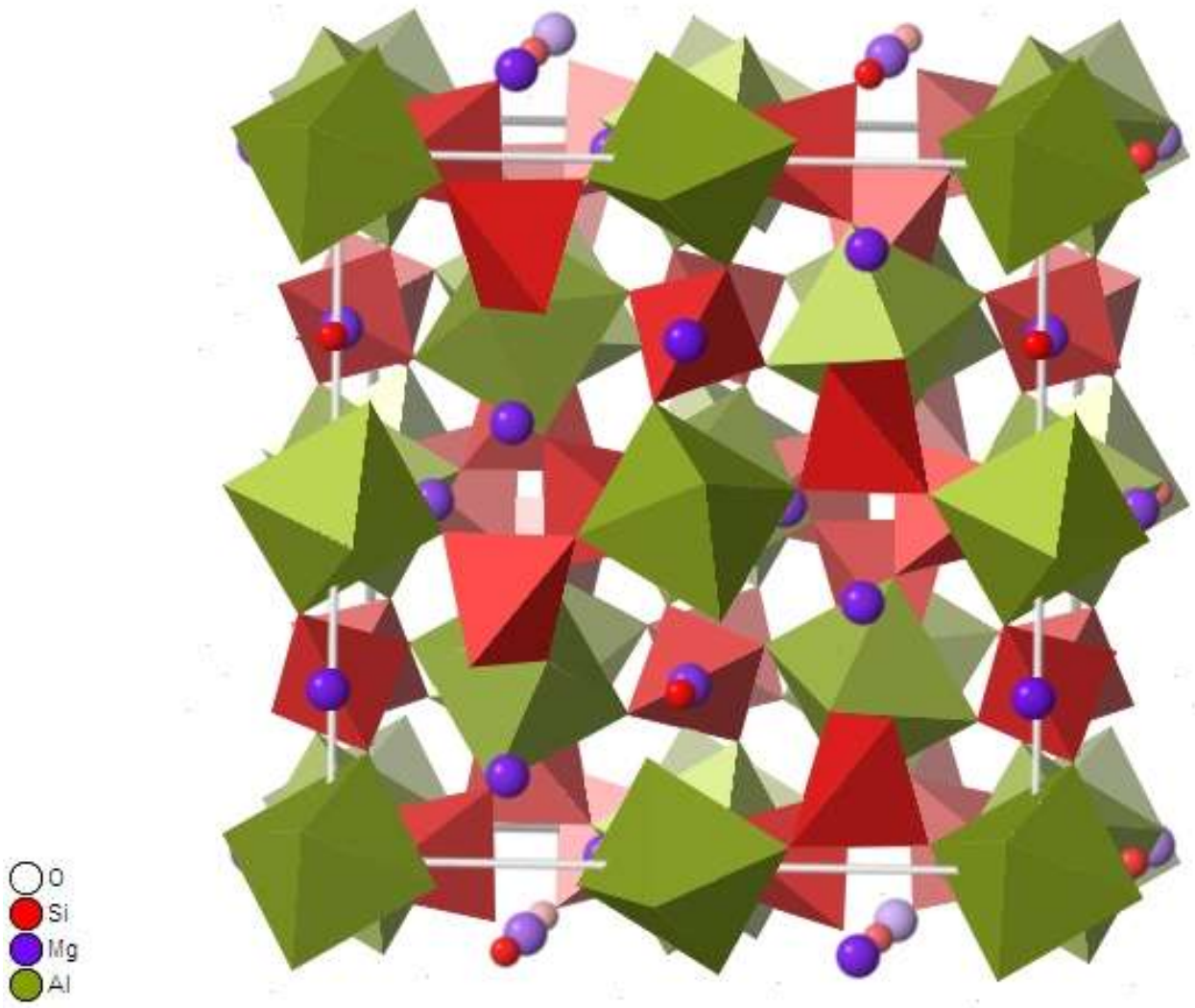


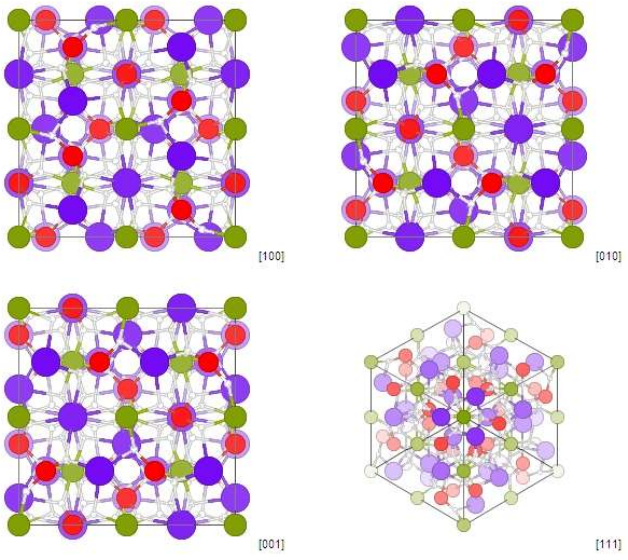
Olivine *(Others, Mg_2SiO_4)*



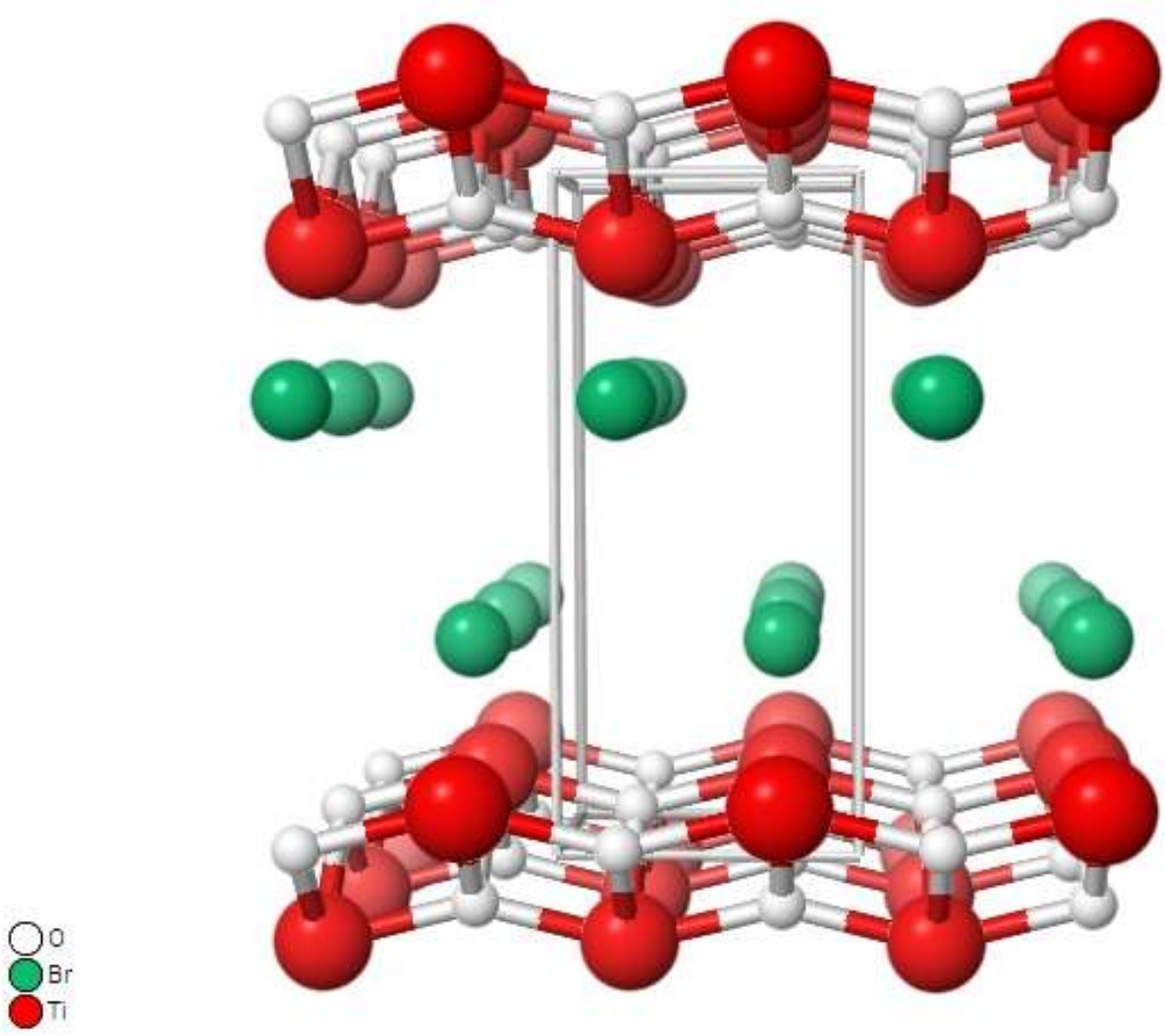


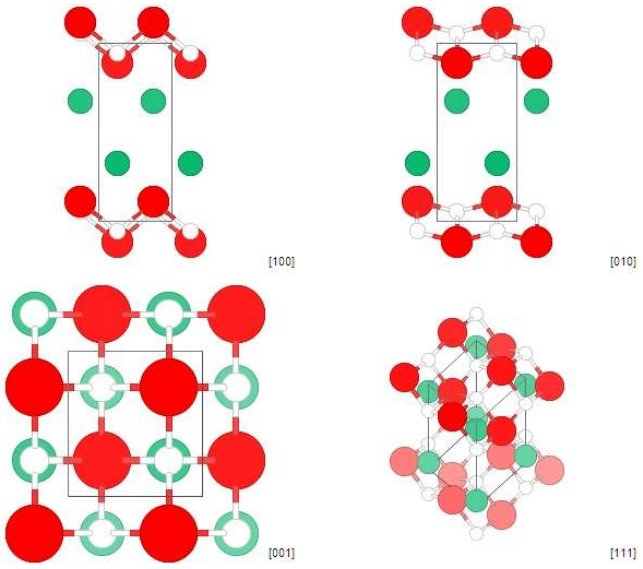
Granate *(Others, Pyrope $Mg_3Al_2Si_3O_{12}$)*



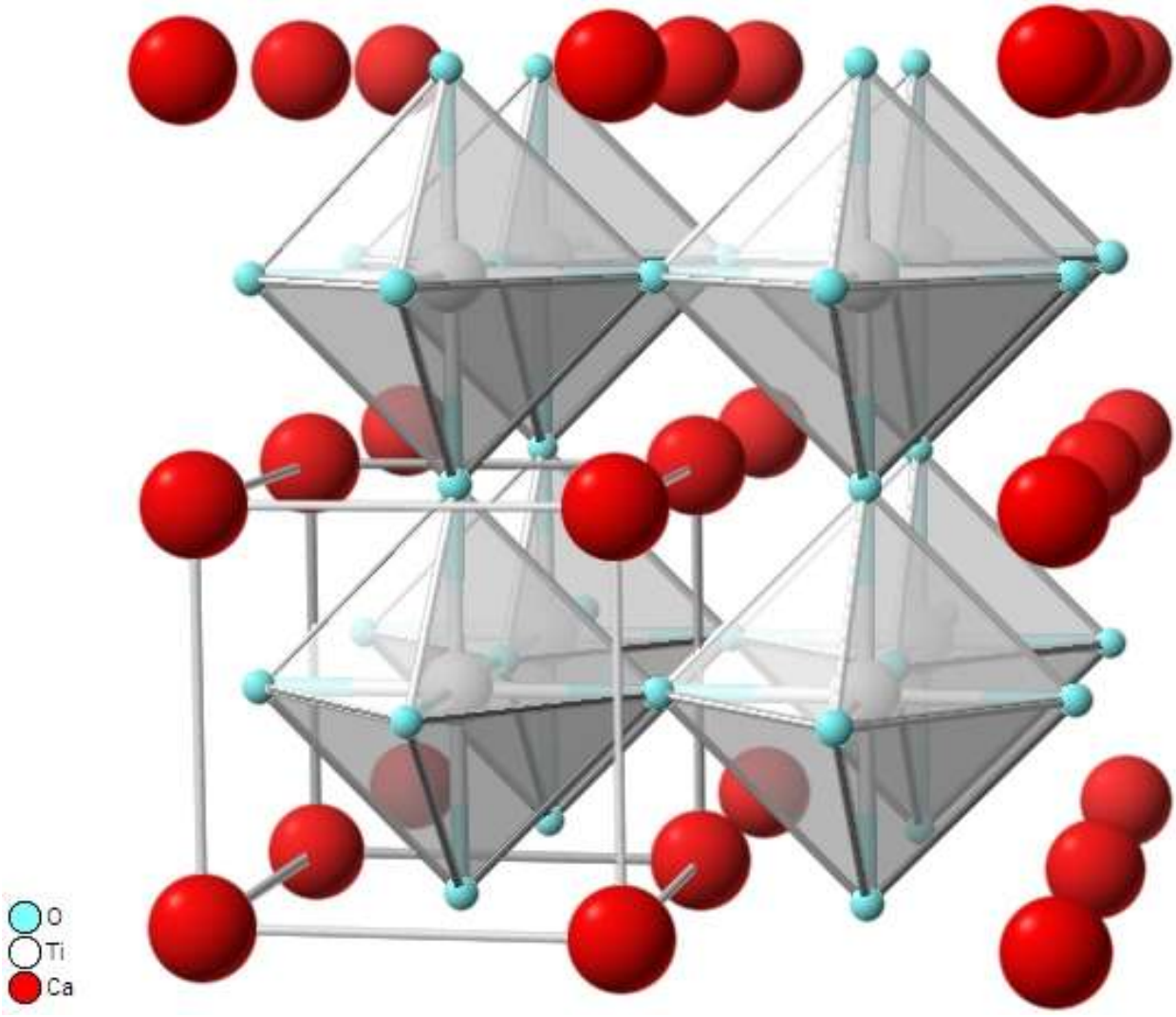


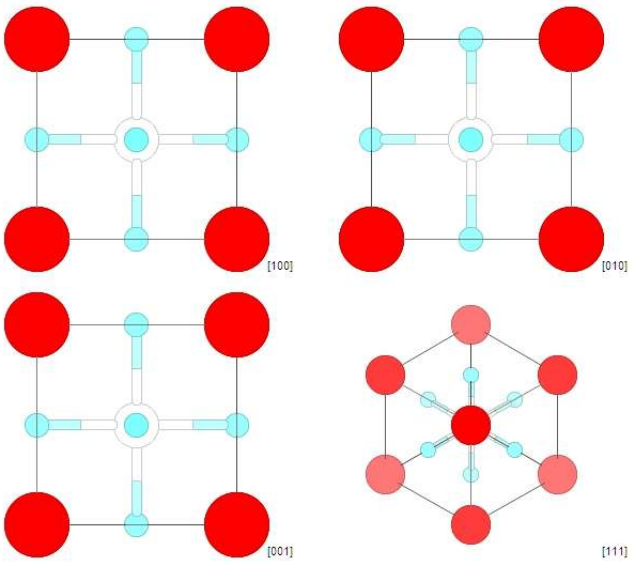
TiOBr *(Others)*



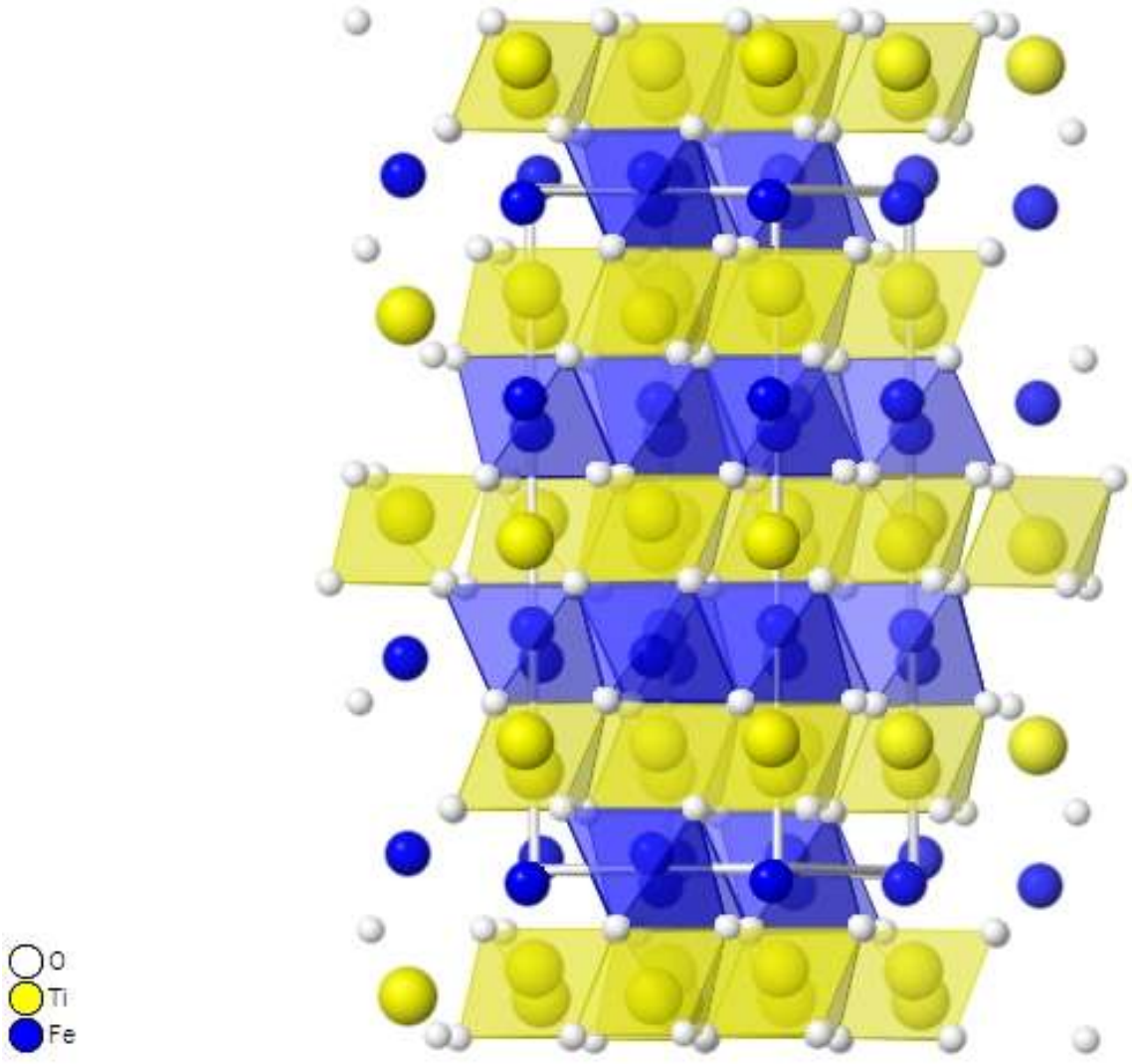


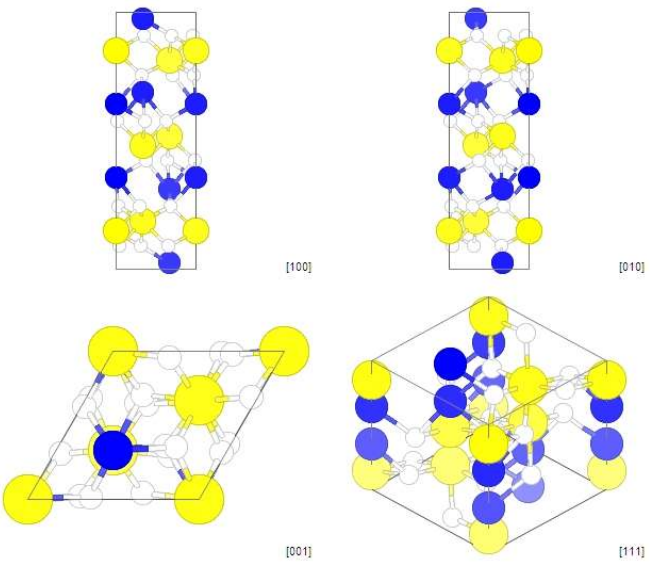
Perovskite *(Others, $CaTiO_3$)*



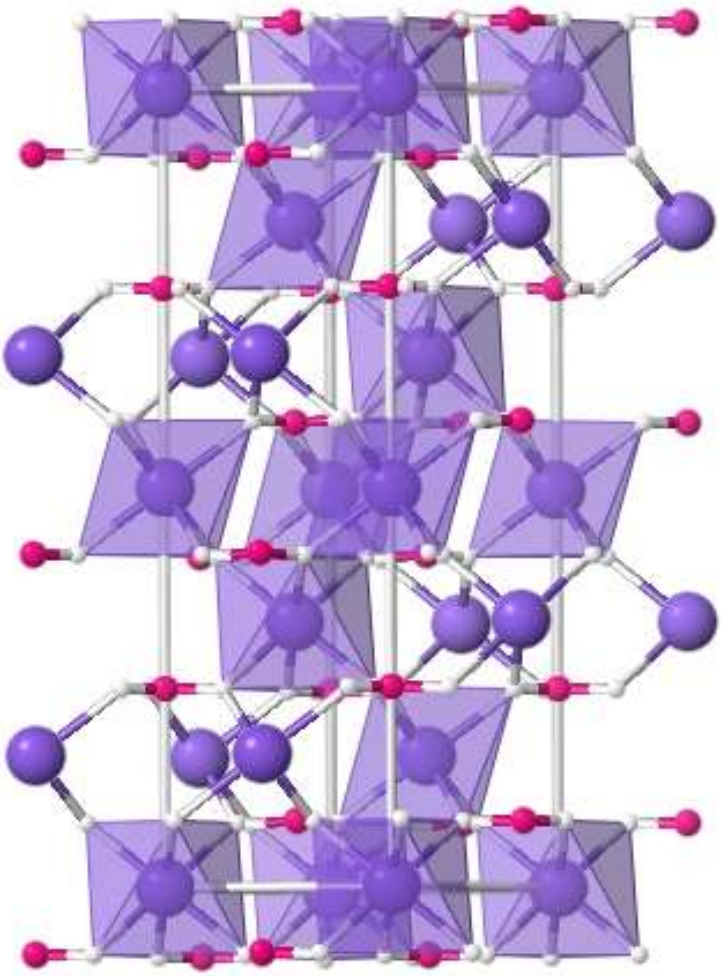


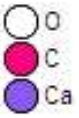
Ilmenite *(Others, $FeTiO_3$)*

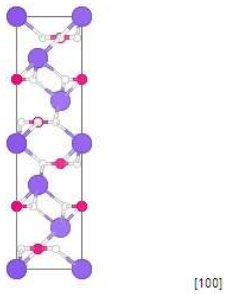


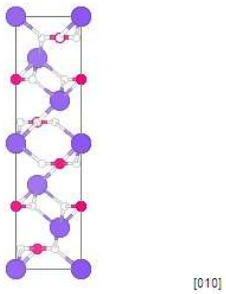


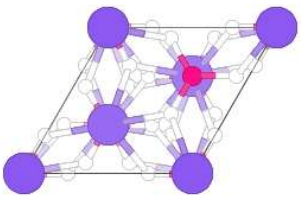
Calcite *(Others, $CaCO_3$)*

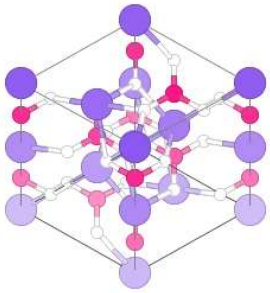




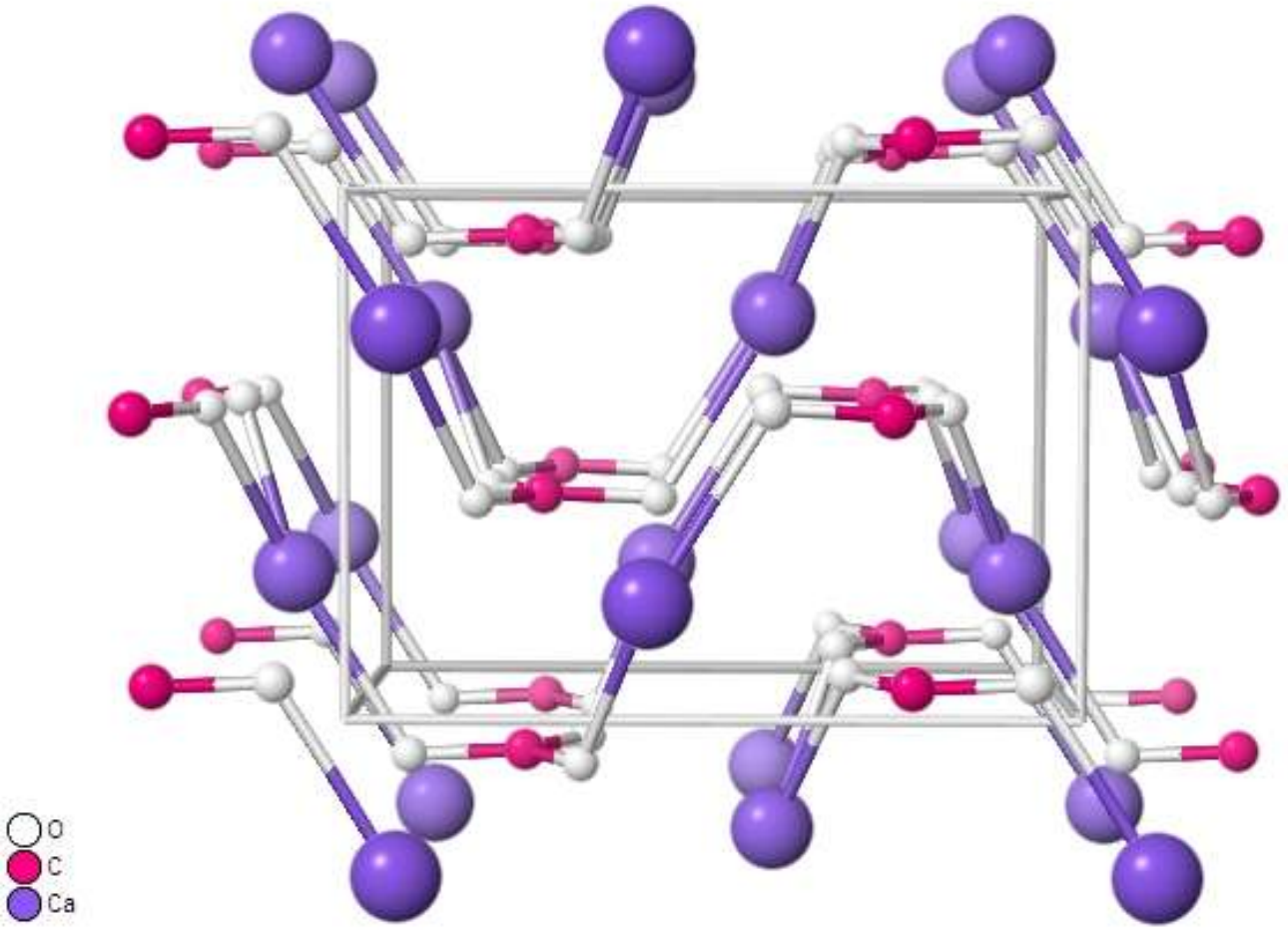


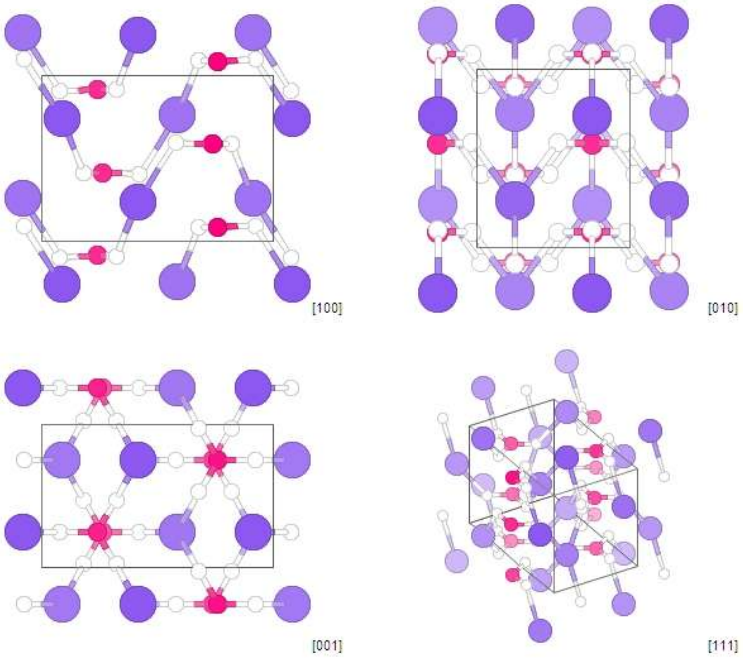






Aragonite *(Others, $CaCO_3$)*





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You may contact me via email at: *steffenweber@comcast.net*

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