

Read Me file for MacDonald et al SERC utilizing X-ray instrumentation combined with 3D printing to increase student's conceptualization and understanding of unit cells teaching activity.

The 3D printing files were generated with the Mercury software from the following files:

Calcite.cif → Calcite (Ca-carbonate) file for Mercury program

The monochrome 3D print files for calcite are:

JM_HRJ_10_21_0m_a_7.stl

JM_HRJ_10_21_0m_a_8.wrl

Dolomite.cif → Dolomite (Ca-Mg-carbonate) file for Mercury program

The monochrome 3D print files for dolomite are:

JM_CA5f_0m_a_1.stl

JM_CA5f_0m_a_2.wrl

Rhodochroste.cif → Rhodochrosite (Mn-carbonate) file for Mercury program

The monochrome 3D print files for rhodochrosite are:

JM_X4d_0m_a_3.stl

JM_X4d_0m_a_4.wrl

If you would like to print them in color you can do so using the Mercury program.