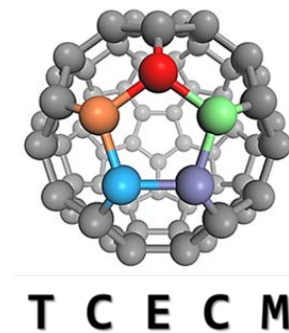


Single crystals growth at NCKU

Chia Nung Kuo (郭家農) & Chin Shan Lue (呂欽山)

kuochianung@gmail.com

cs_lue@mail.ncku.edu.tw



CDW materials and candidates



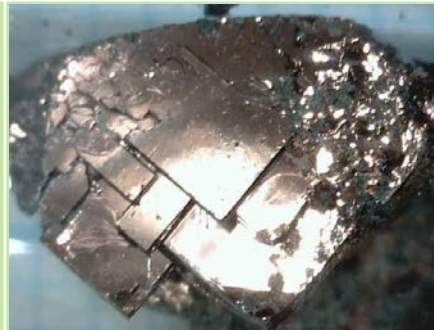
NbTe₄



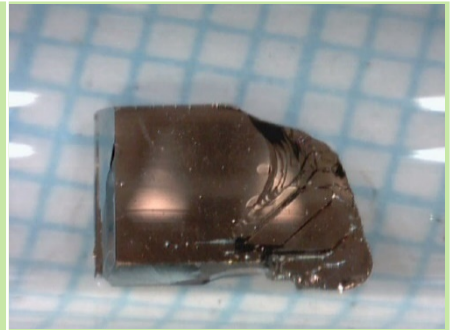
TaTe₄



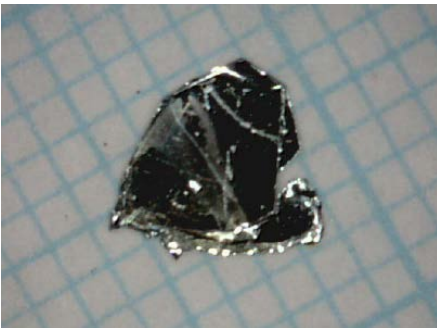
TbTe₃



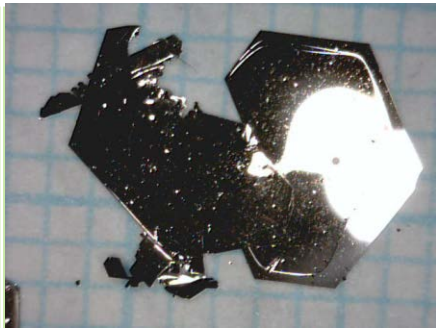
HoTe₃



YTe₃



NbSe₂



VSe₂



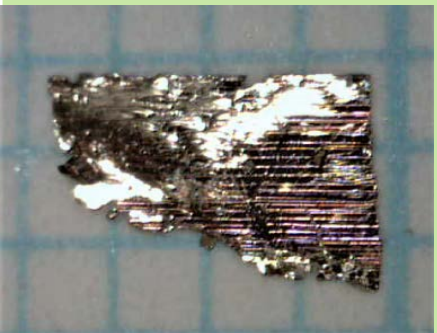
IrTe₂



LaAgSb₂



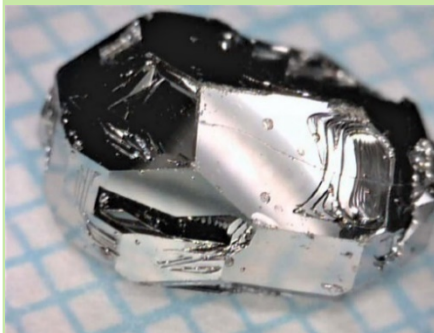
LaSeTe₂



CuTe



BaFe₂Al₉



Ir₂In₈Se



LaAuSb₂

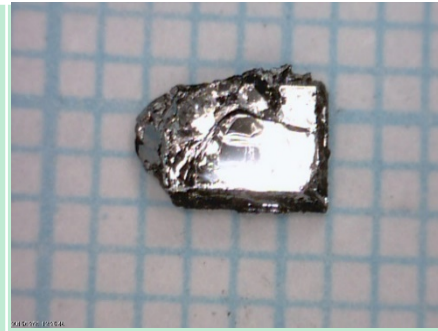


RuP

Strongly correlated systems



$\text{CeFe}_2\text{Al}_{10}$



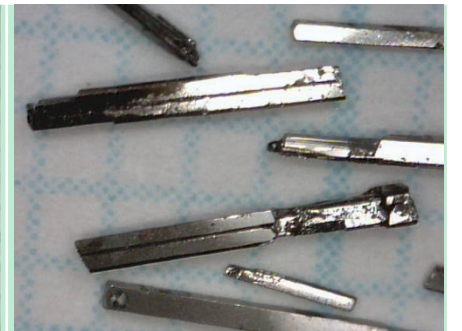
CeAgSb_2



Au_2Pb



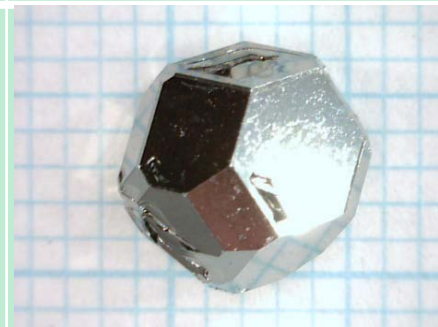
NbSb_2



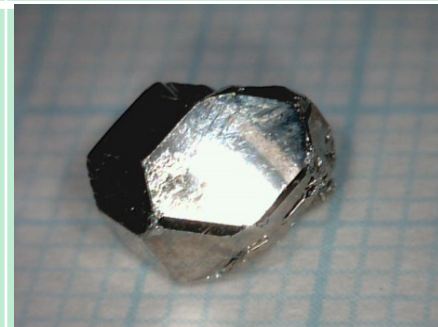
TaSb_2



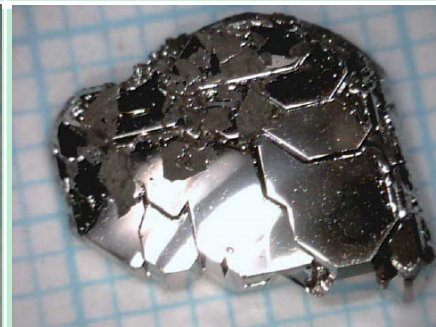
$\text{Ce}_3\text{Co}_4\text{Sn}_{13}$



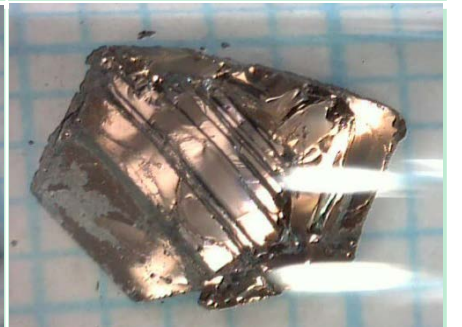
$\text{Ce}_3\text{Rh}_4\text{Sn}_{13}$



$\text{La}_3\text{Rh}_4\text{Sn}_{13}$



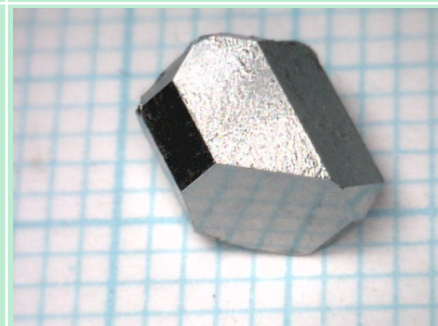
ScSn_2



HfTe_2



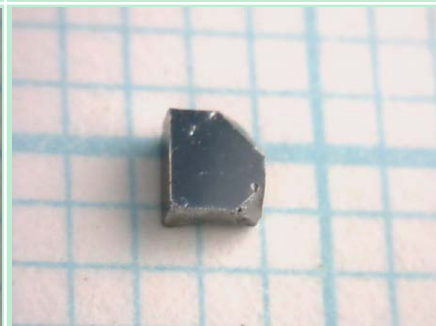
$\text{Nd}_3\text{Co}_4\text{Sn}_{13}$



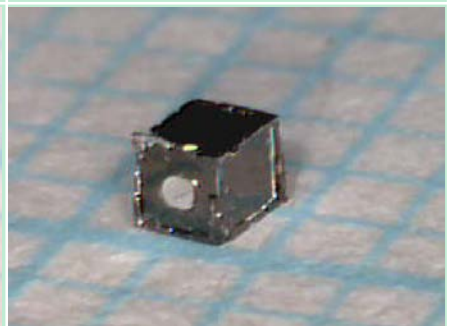
$\text{Sr}_3\text{Ir}_4\text{Sn}_{13}$



CaCdGe

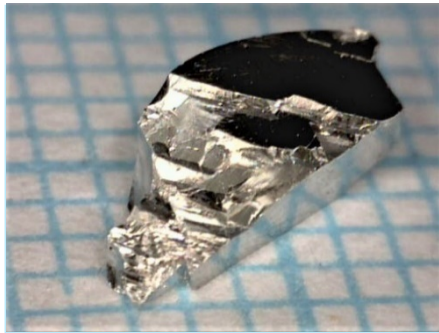


ScSb

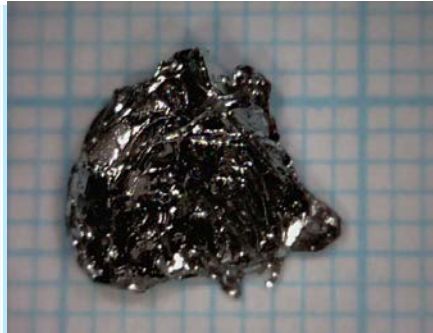


SmSb

Superconductors



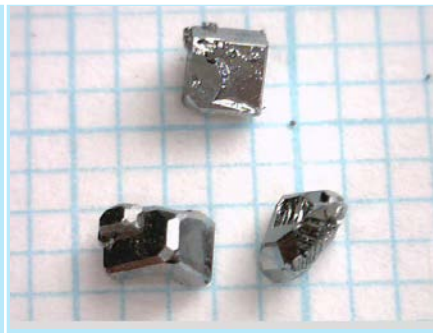
SnAs



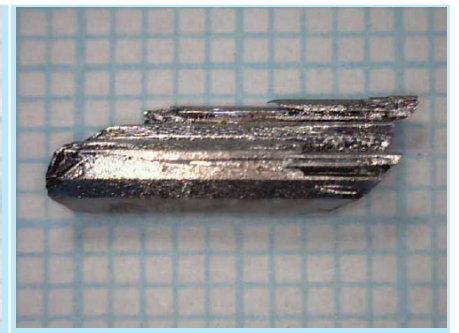
AuSn₄



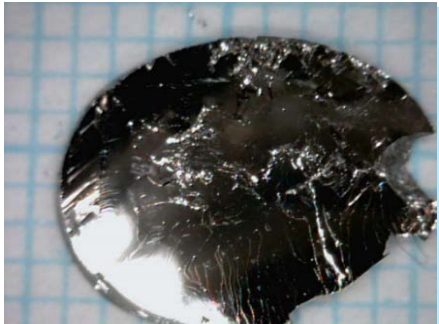
Mo₈Ga₄₁



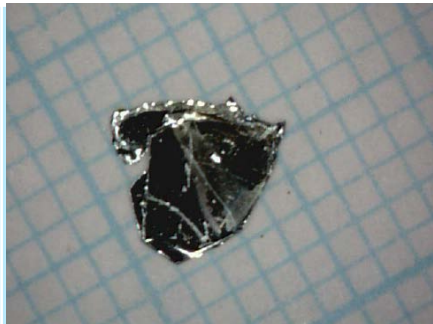
Mo₃Sb₇



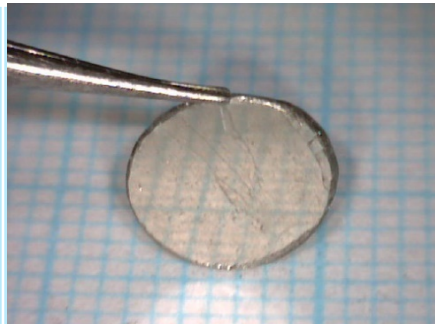
V₂Ga₅



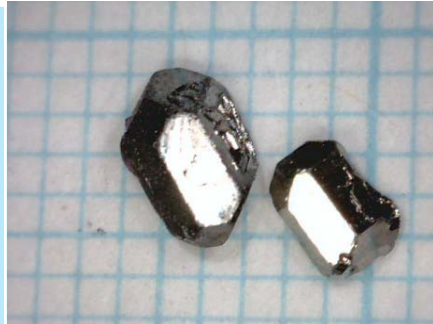
FeTe_{0.55}Se_{0.45}



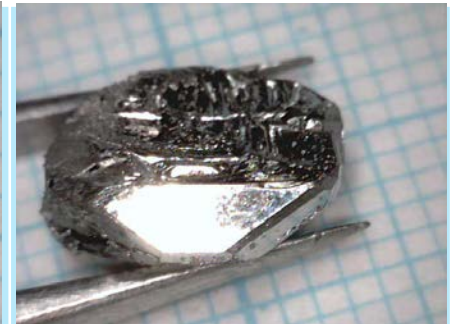
NbSe₂



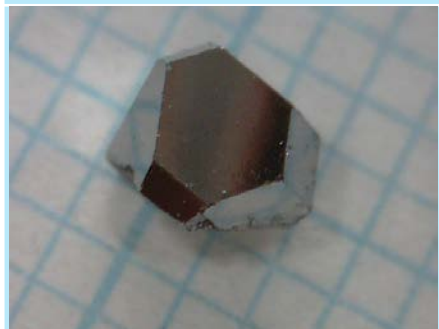
PdTe₂



Ca₃Rh₄Sn₁₃



La₃Co₄Sn₁₃



Y₅Ir₆Sn₁₈



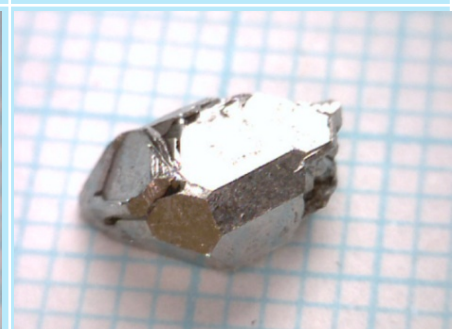
Lu₅Rh₆Sn₁₈



CuS

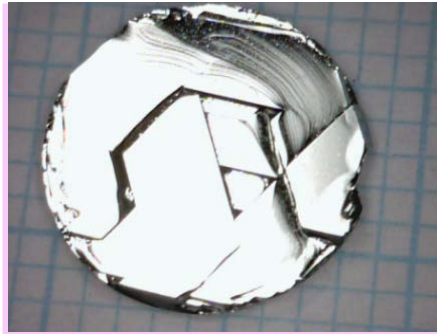


Ca₃Ir₄Sn₁₃

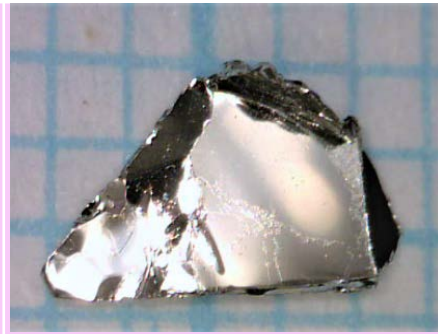


Sr₃Rh₄Sn₁₃

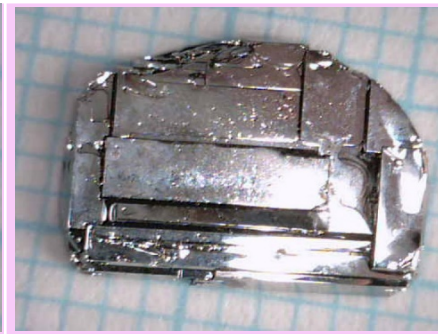
Topological Materials



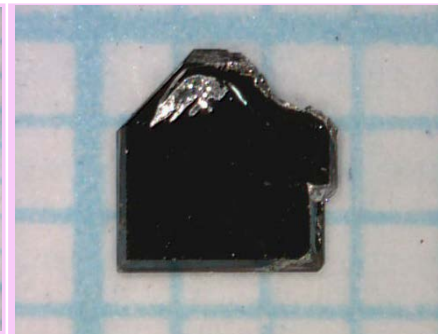
PtTe_2



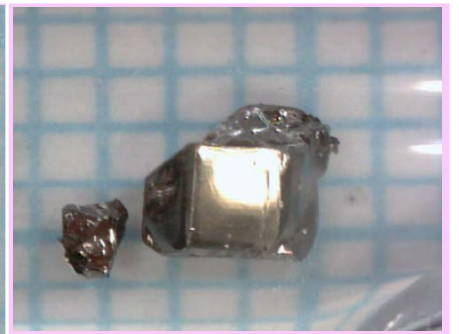
Pt_3Te_4



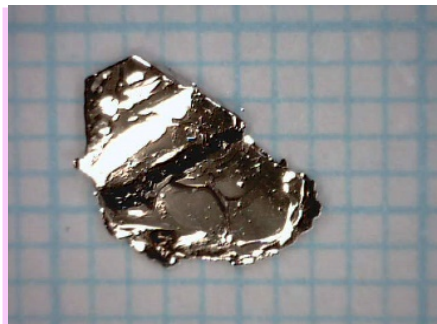
PtSn_4



ZrSnTe



CaMnBi_2



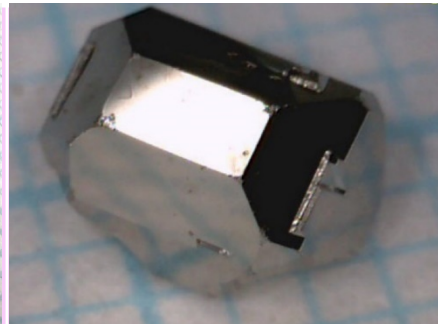
NiTe_2



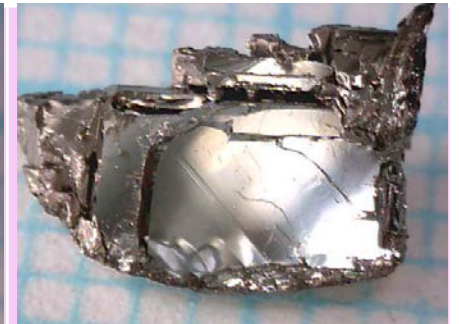
NiTeSe



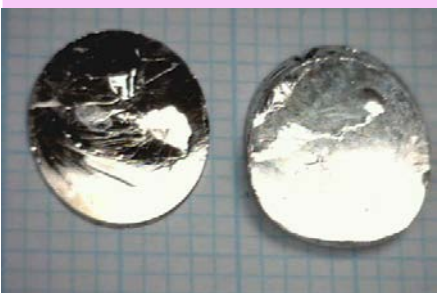
$\text{Bi}_2\text{Te}_2\text{Se}$



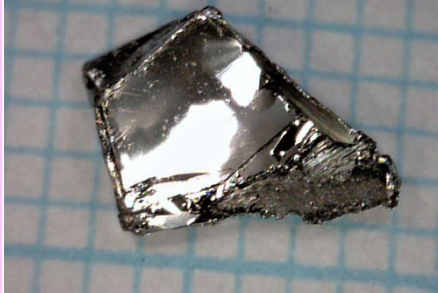
NbP



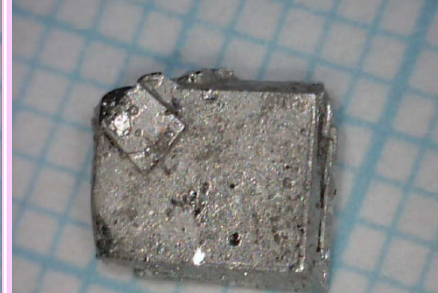
SrMnBi_2



PdTe_2



PdSe_2



PdSn_4



TaP

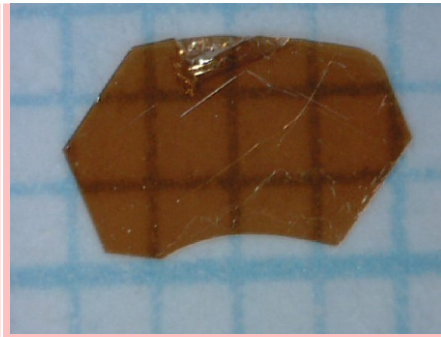


VAl_3

Layered Semiconductors



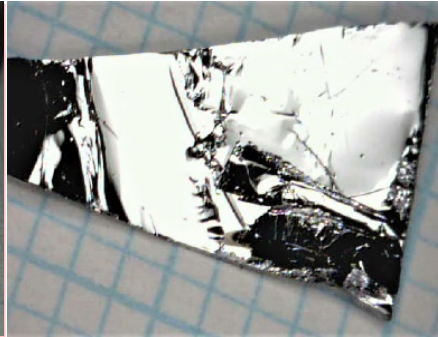
SnS



SnS₂



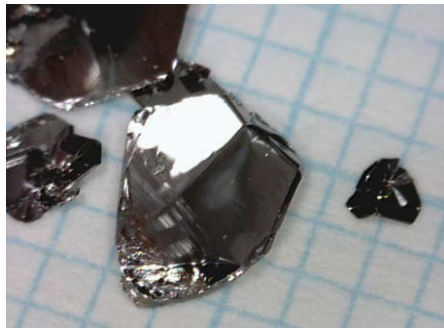
SnSe



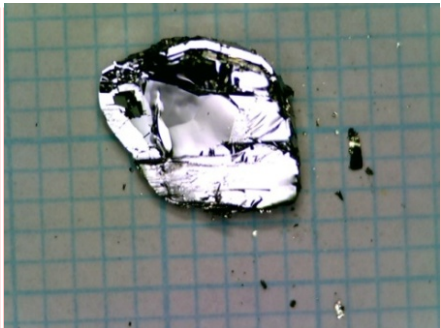
SnSe₂



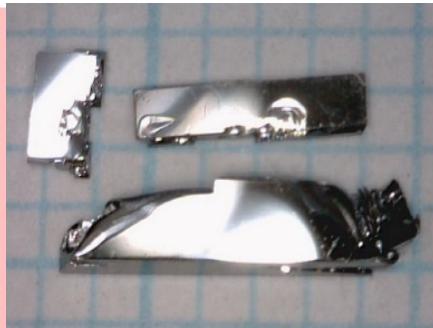
InBi



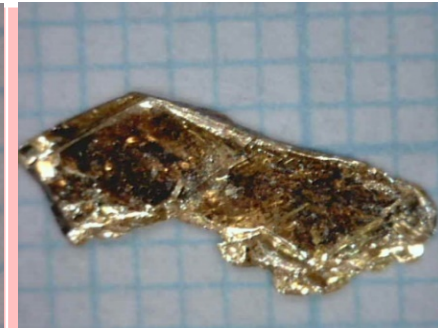
PtS₂



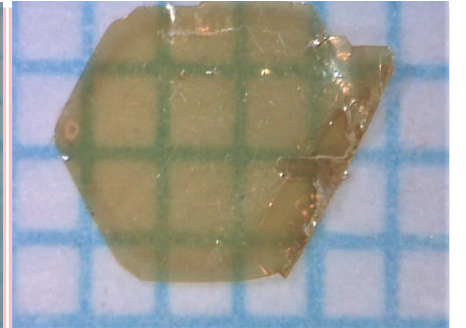
PdSe₂



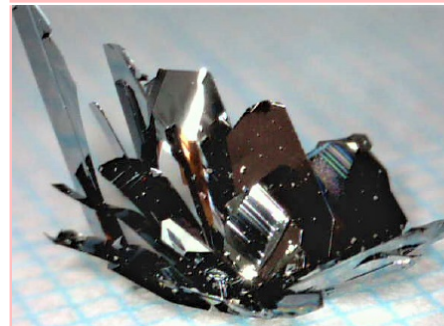
GeSe



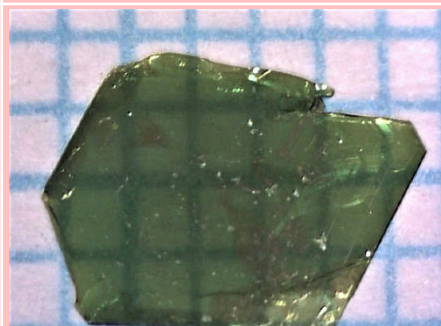
GeSe₂



CuInP₂S₆



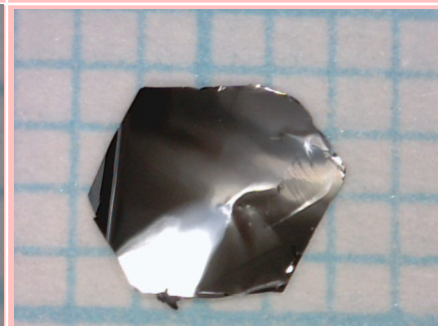
CrPS₄



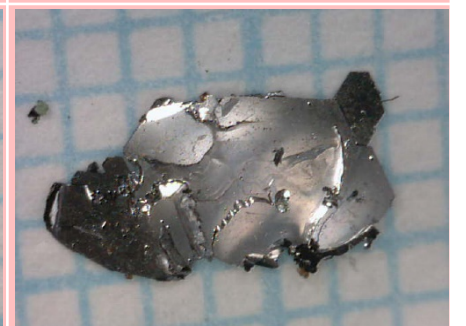
MnPS₃



MnPSe₃

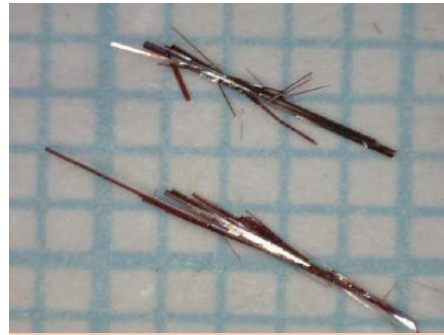


FePS₃

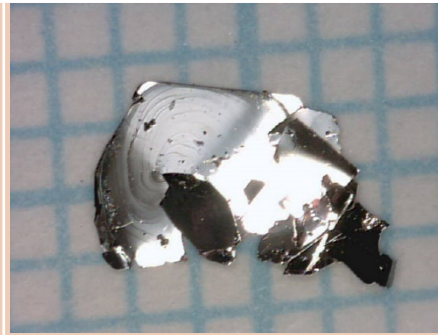


CuCrP₂S₆

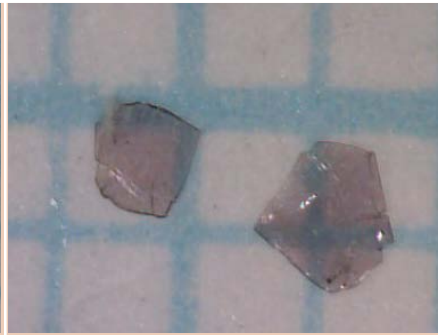
Semiconducting compounds



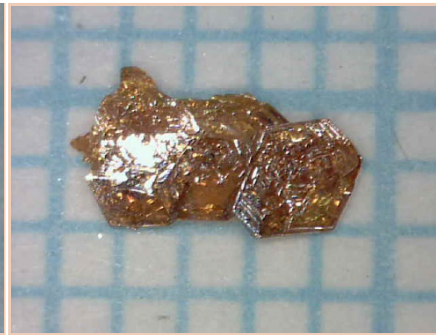
Nb₄P₂S₂₁



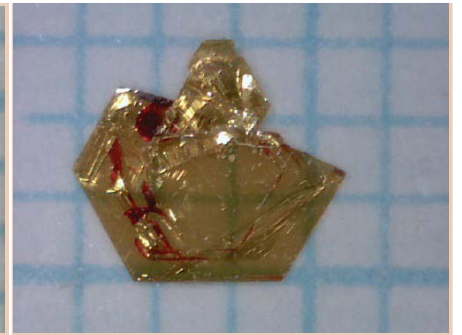
SnSeS



NaYbS₂



CdPSe₃



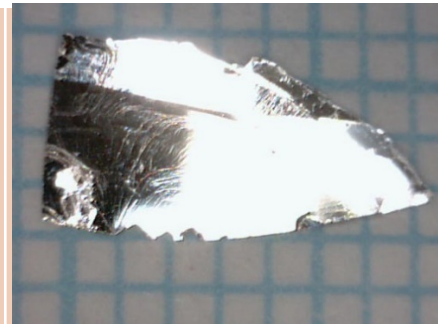
ZnPSe₃



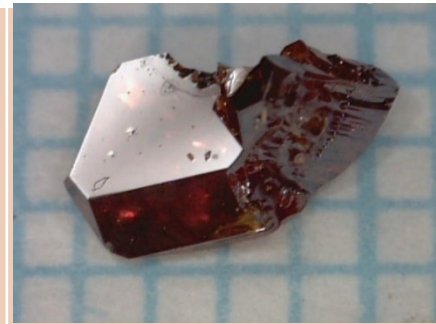
GaPS₄



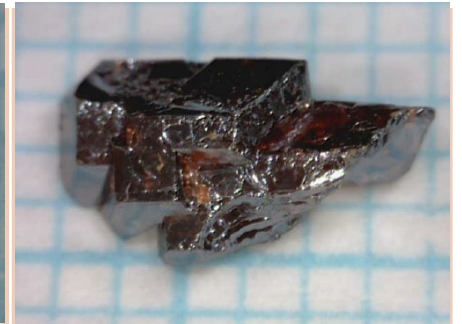
Pd₃P₂S₈



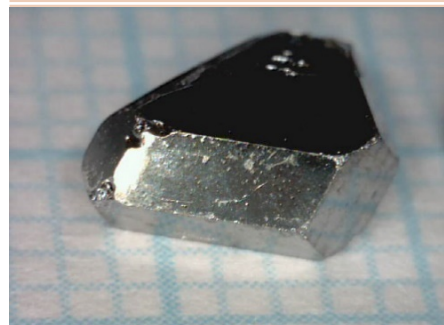
Sb₂Te



Pb₂P₂S₆



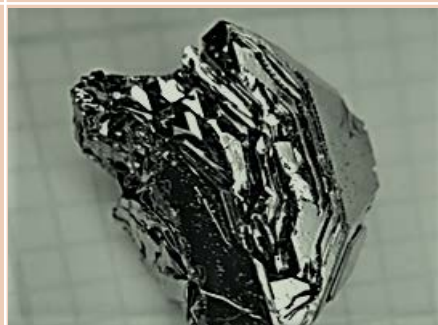
Sn₂P₂S₆



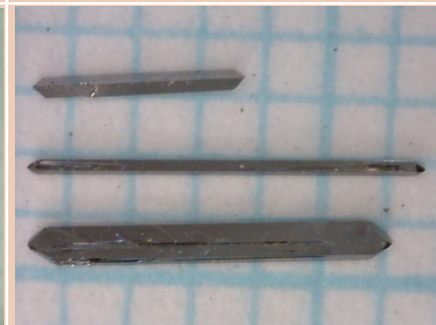
CrGa₄



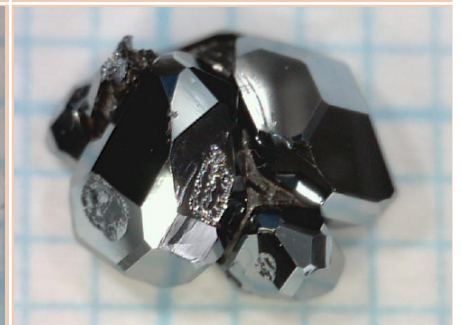
FeGa₃



RuGa₃

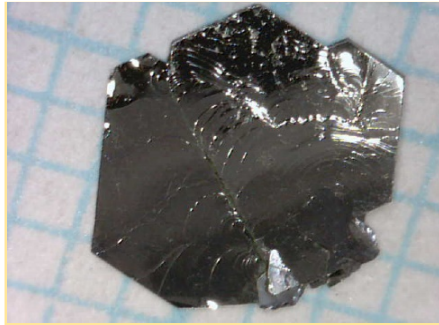


RuP₂



RhP₃

Layered magnetic materials



CrGeTe₃



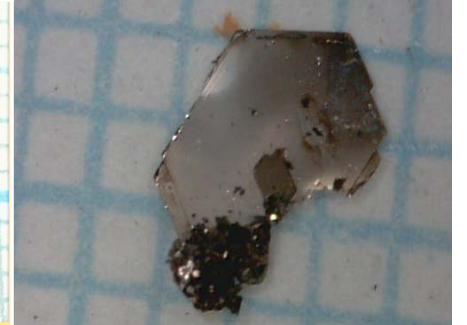
LaCrSb₃



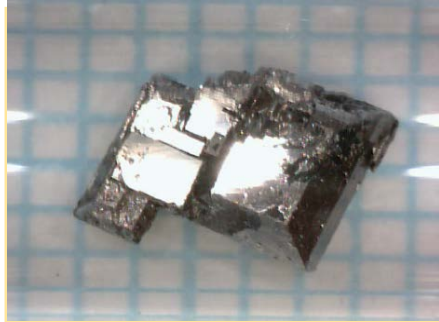
Cr₅Te₈



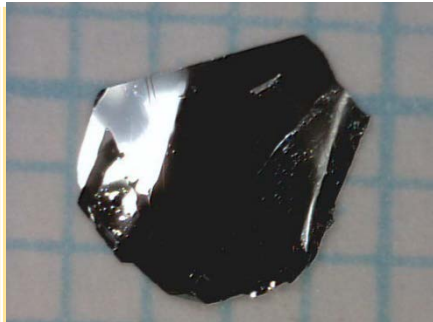
Fe_xNbS₂



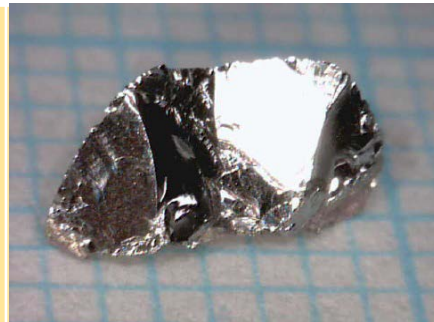
Fe₅GeTe₂



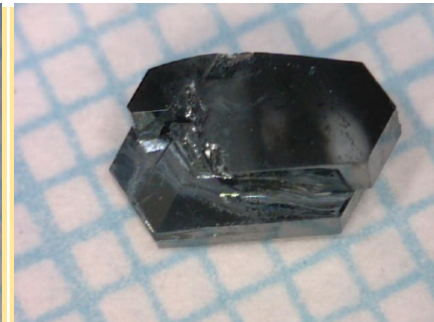
YbMnBi₂



FePSe₃



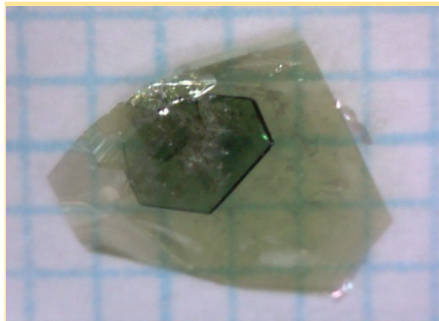
Co₃Sn₂S₂



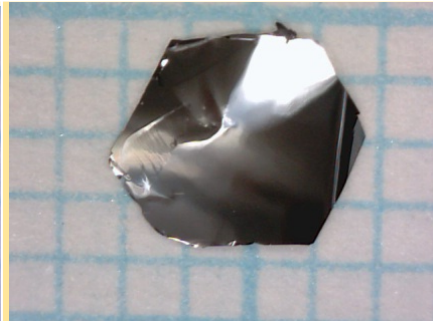
Fe_xTaS₂



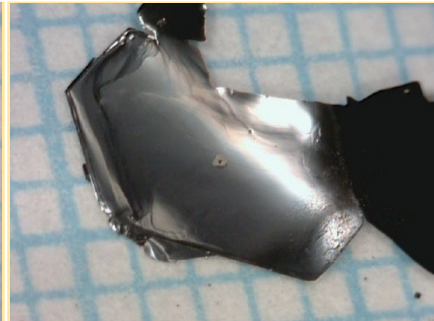
ErMn₆Sn₆



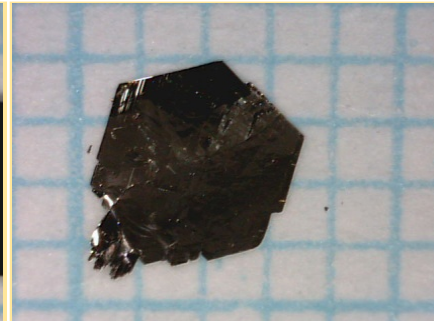
MnPS₃



FePS₃



CoPS₃



NiPS₃

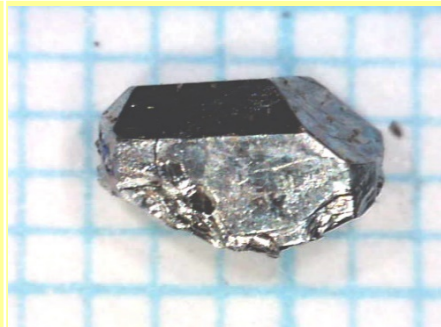


LuV₆Sn₆

Other intermetallics



SrCo_2Al_9



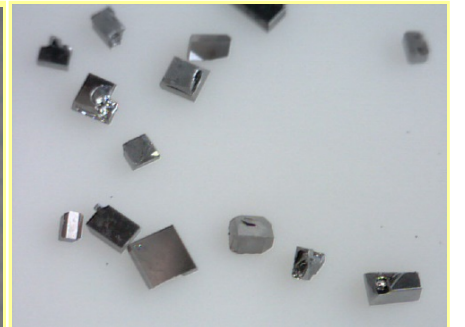
$\text{YFe}_2\text{Al}_{10}$



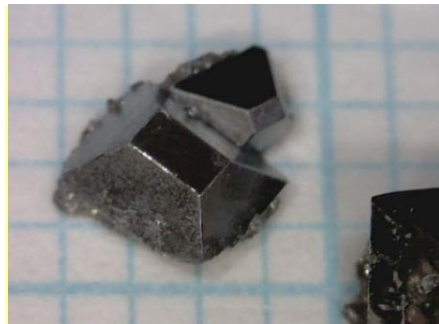
$\text{Sc}_5\text{Rh}_6\text{Sn}_{18}$



$\text{Ni}_3\text{In}_2\text{S}_2$



NbGa_3



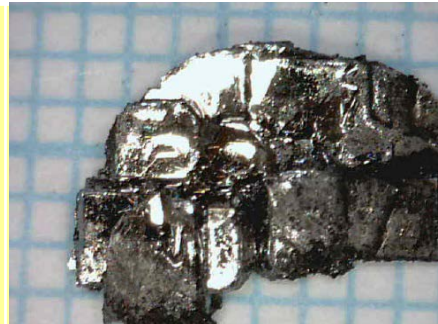
Co_2ZrSn



CoSi



CoSb_3



LaCuSb_2



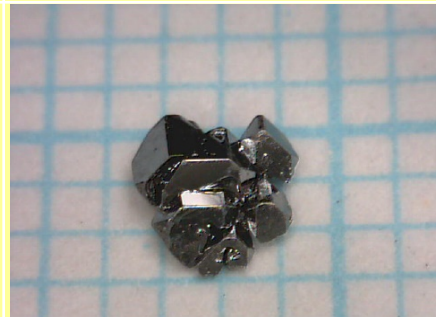
Mn_3Sn



WTe_2



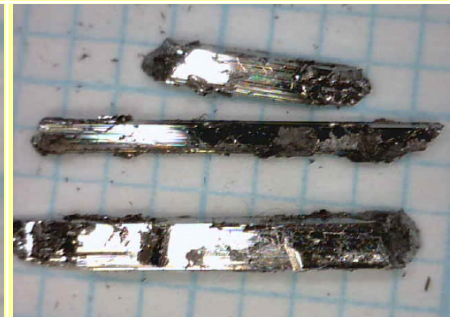
WP_2



NiP_2



NiSe_2



ZrBi_2