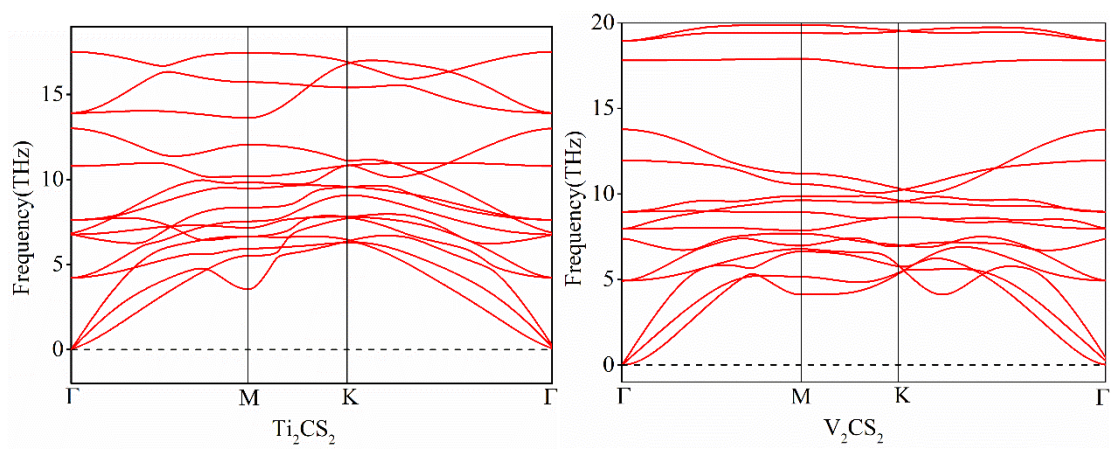
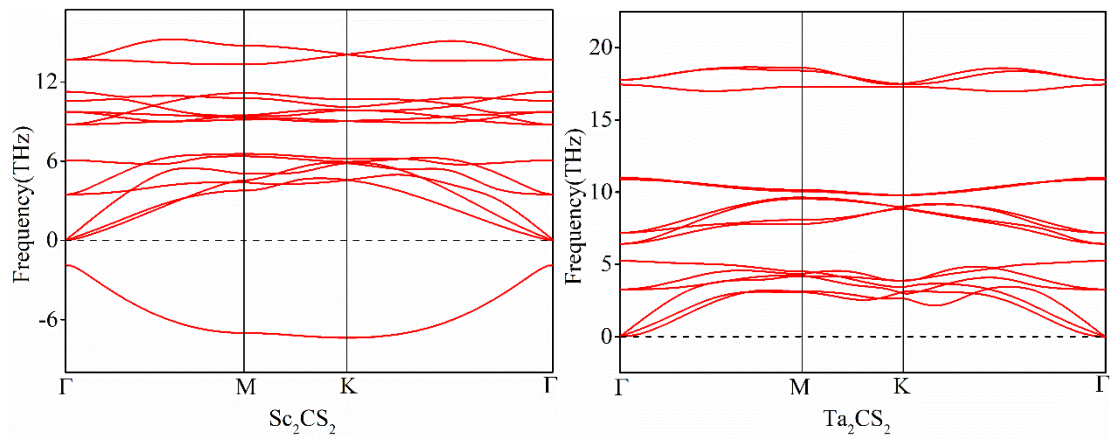
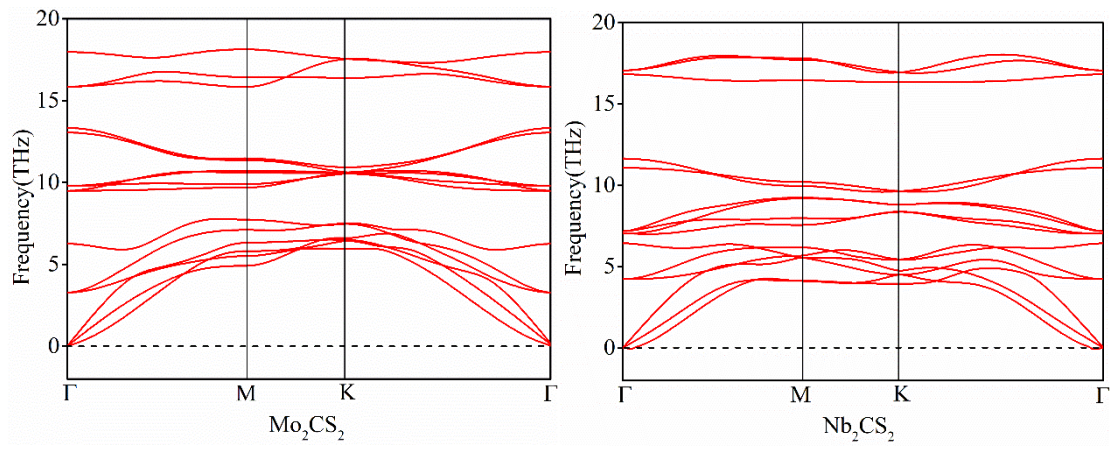
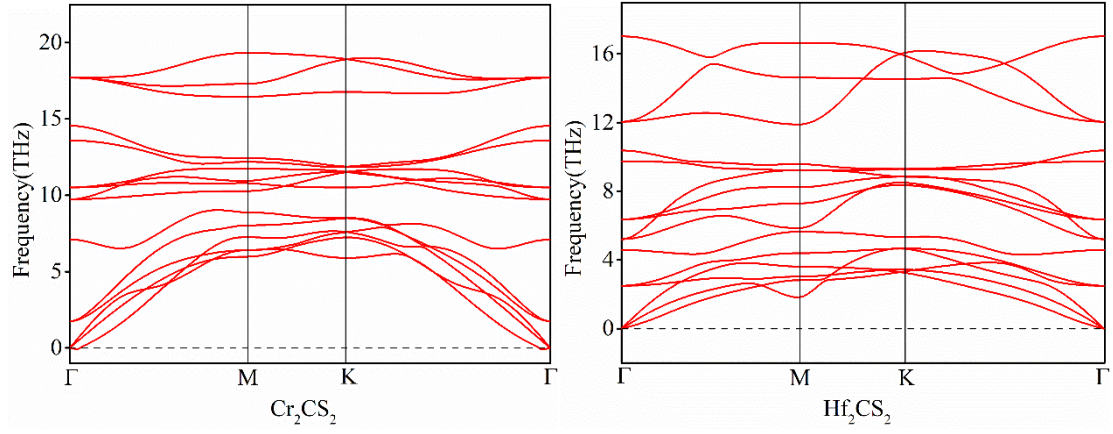


Fig. S1 Calculated formation energies of the most stable  $M_2CS_2$ .



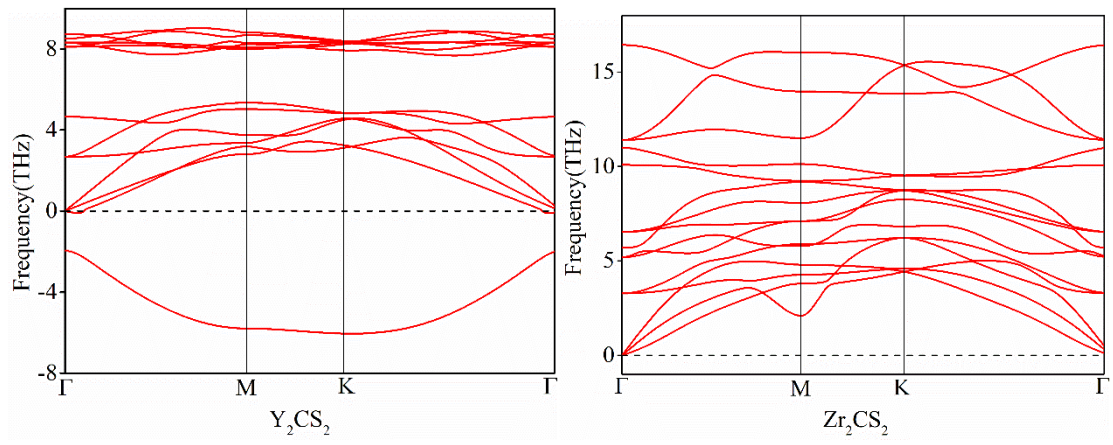


Fig. S2 Phonon dispersion curves for the most stable  $M_2CS_2$ .

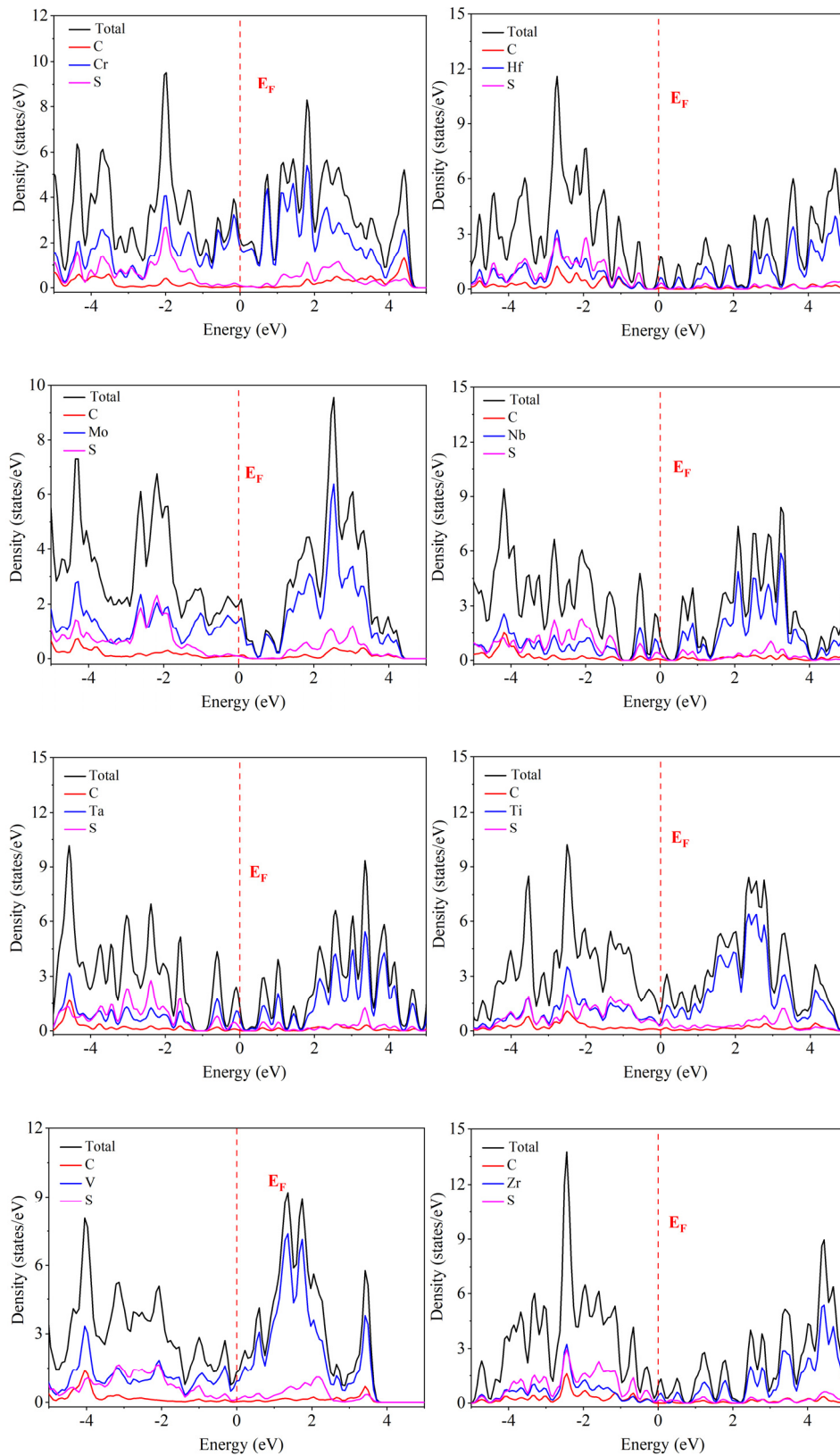


Fig. S3 Total and partial density of states of  $M_2CS_2$

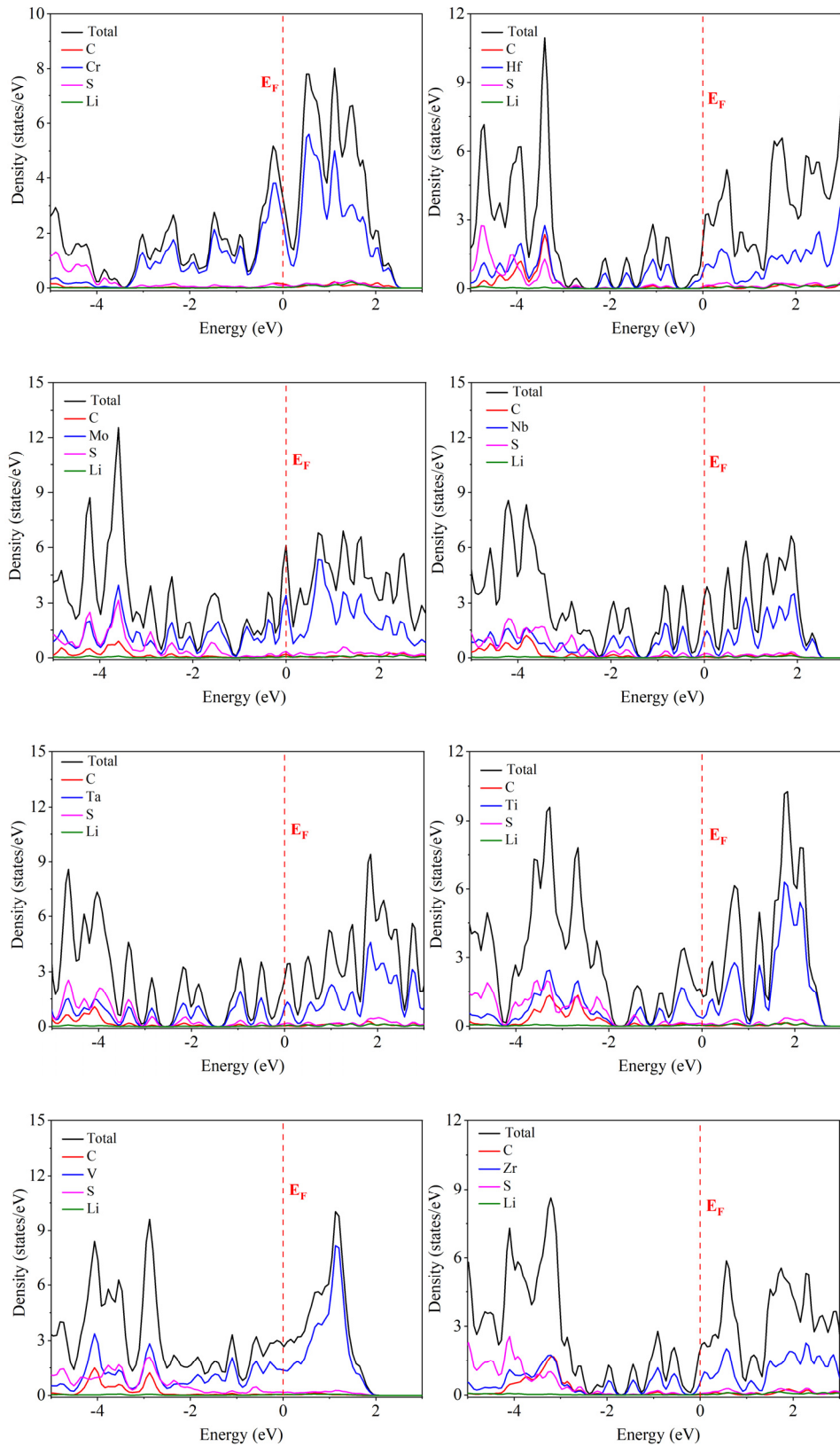


Fig. S4 Total and partial density of states of  $M_2CS_2Li_2$

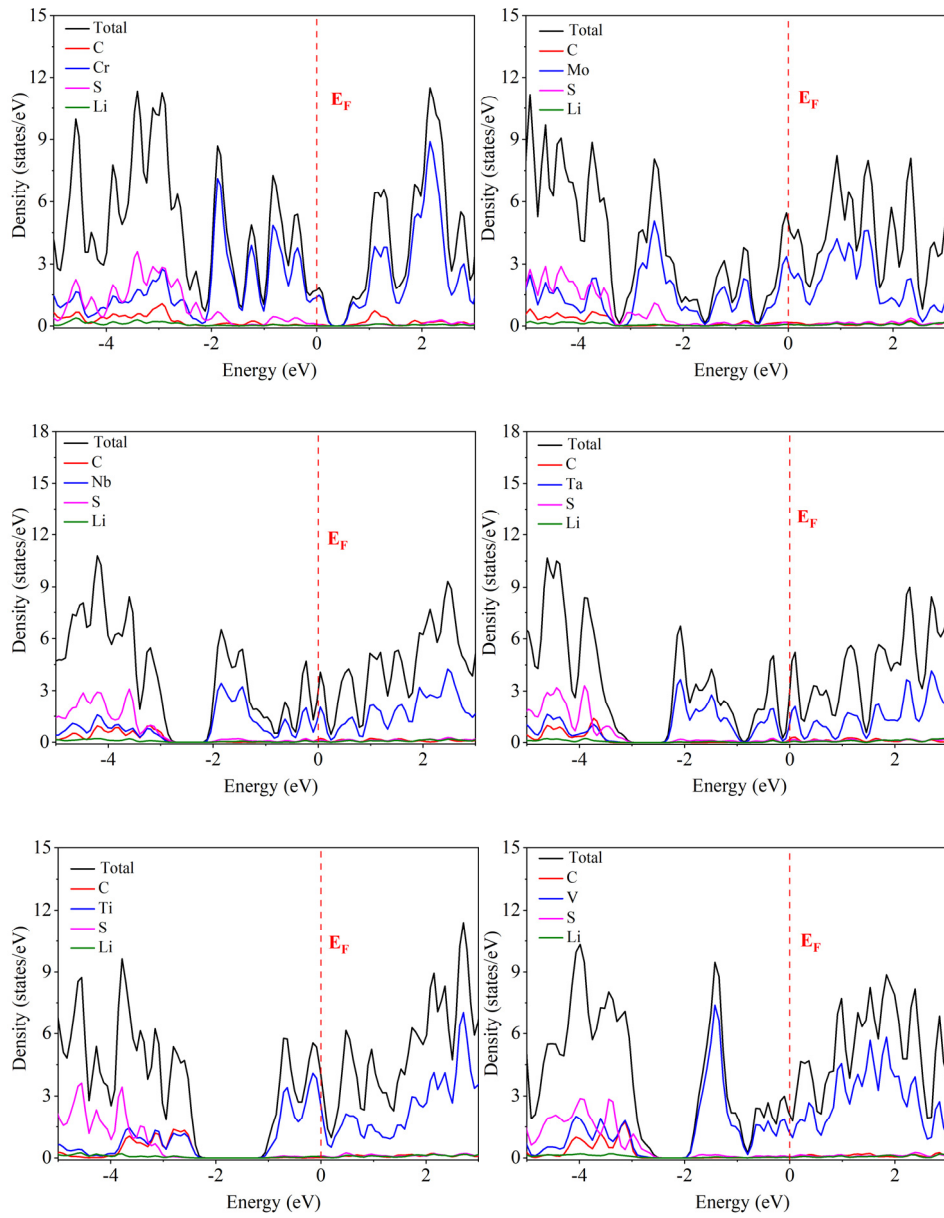


Fig. S5 Total and partial density of states of  $M_2CS_2Li_4$