$\begin{array}{c} PEA_{2}MA_{n-1}Pb_{n}I_{3n+1} \\ ABX_{3} \text{ e.g:} MA^{+}, Cs^{+}, FA^{+} \\ \text{e.g:} Pb^{2+}, Sn^{2+} \ (LA)_{2}(A)_{2}B_{n}X_{3n+1} \end{array}$