

Triel Bonds within Anion...Anion Complexes

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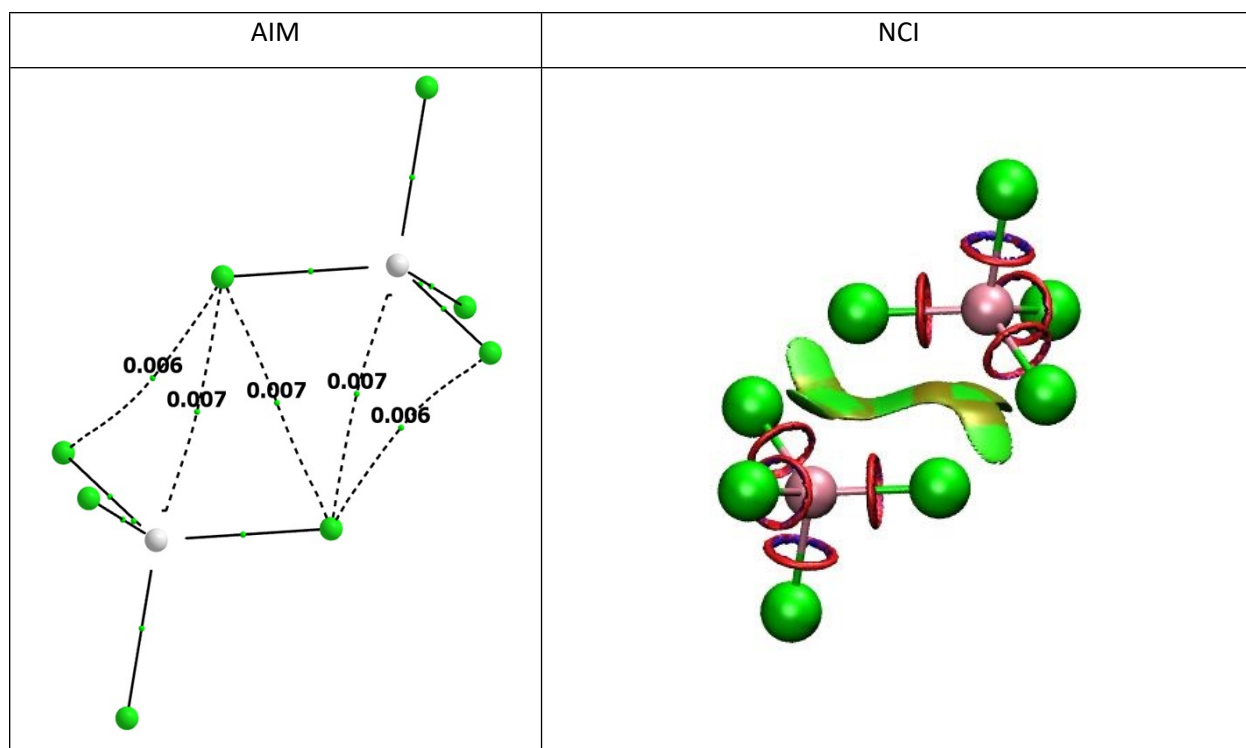


Fig S1. AIM and NCI analyses of the TlCl₄⁻ dimer, with geometry extracted from the X-ray structure.

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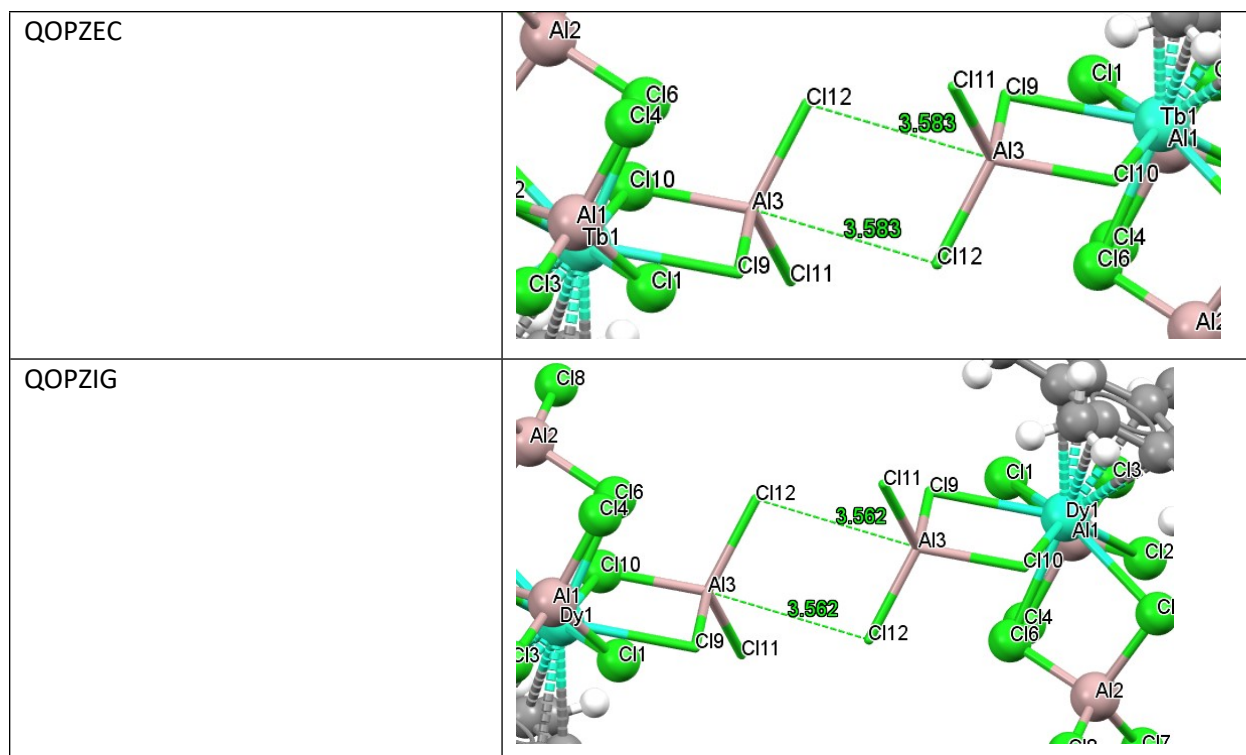
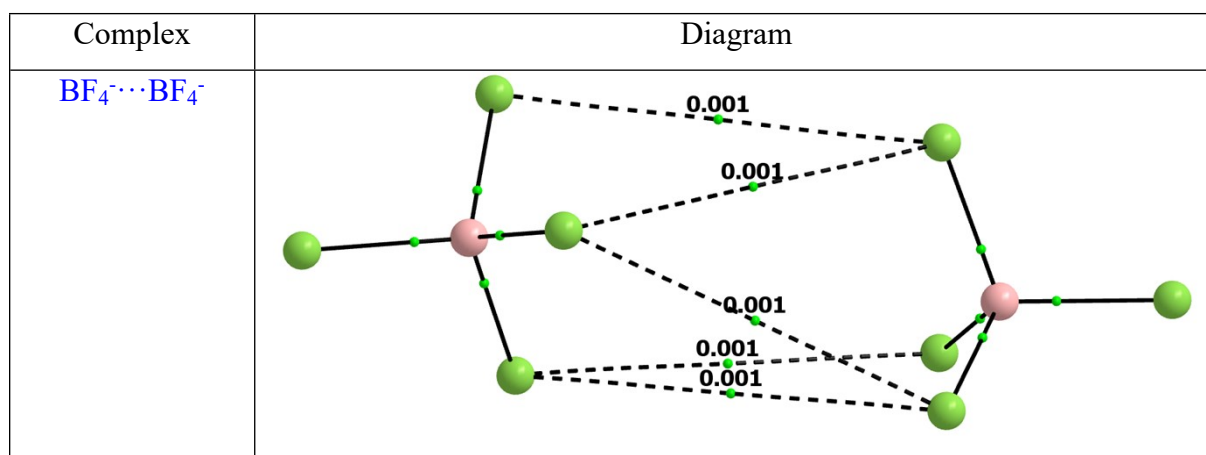
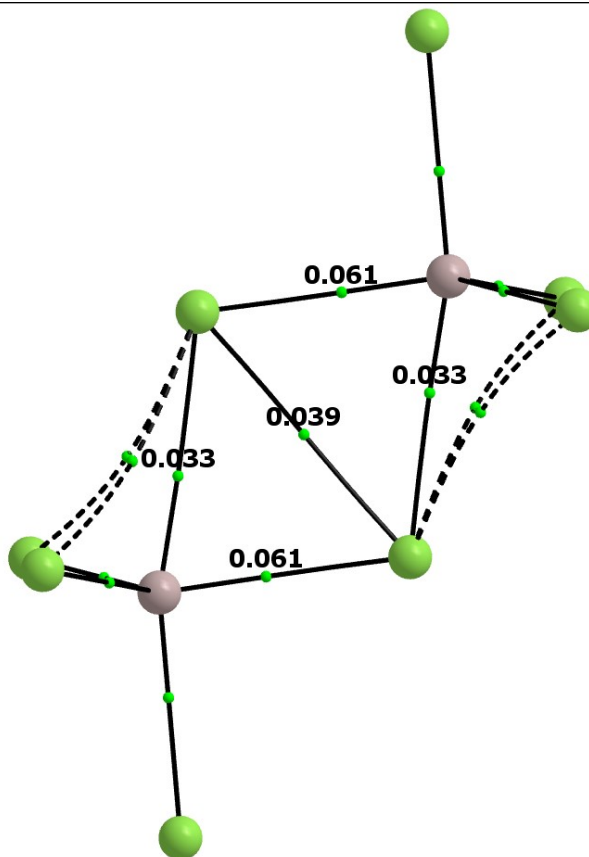


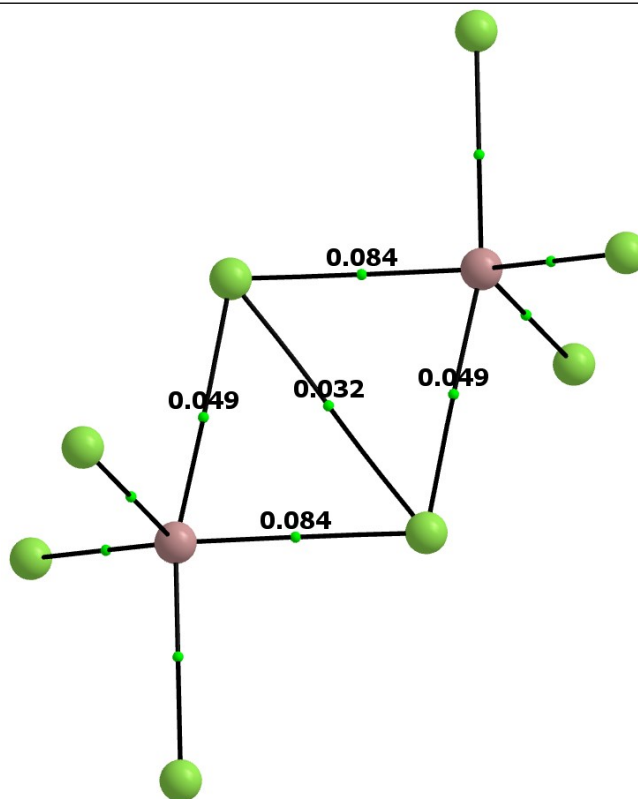
Fig. S2 Examples of the structures with similar organization as that discussed in current work. Interanionic interactions are indicated by green dashed lines. Distances given in Å.



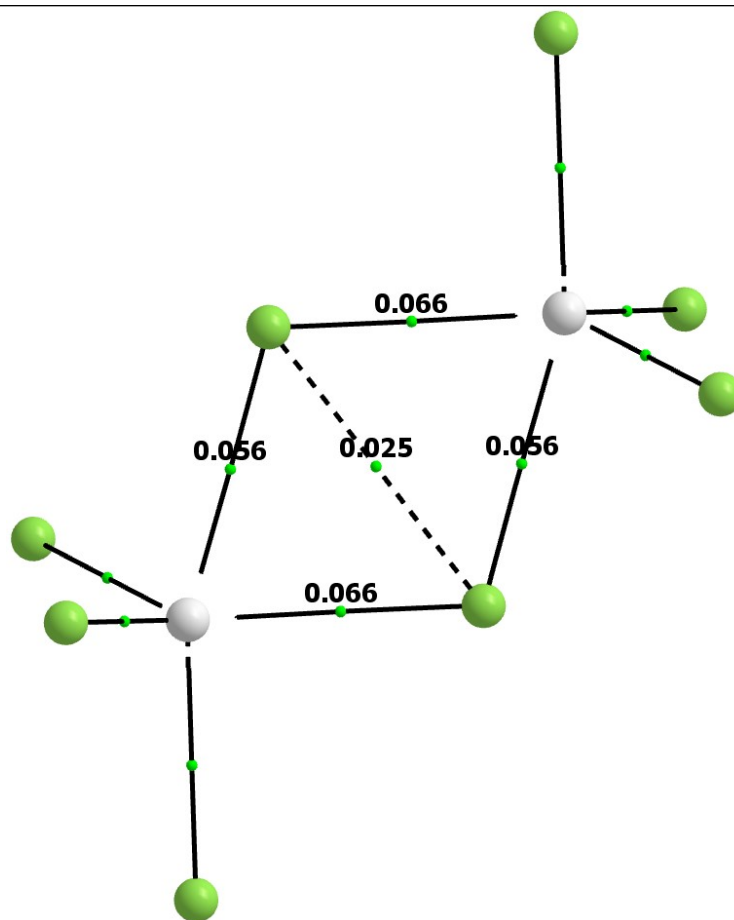
$\text{AlF}_4^- \cdots \text{AlF}_4^-$



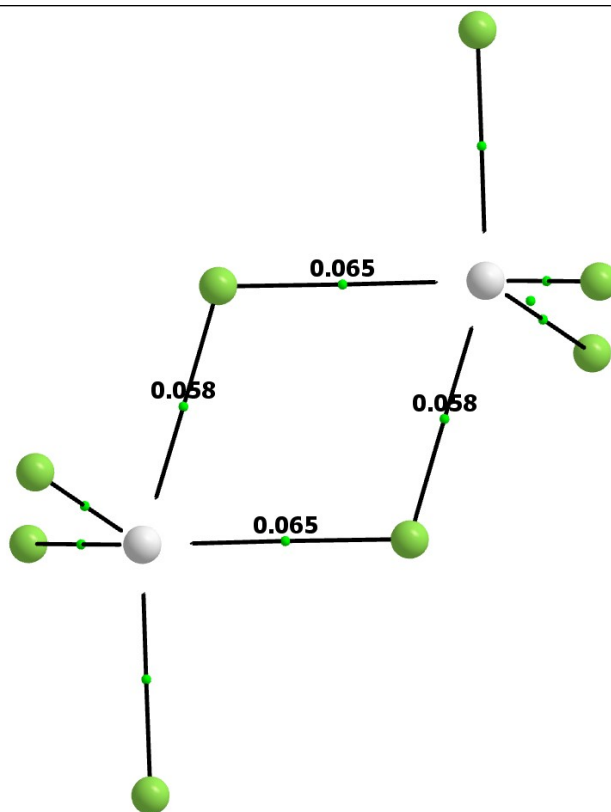
$\text{GaF}_4^- \cdots \text{GaF}_4^-$



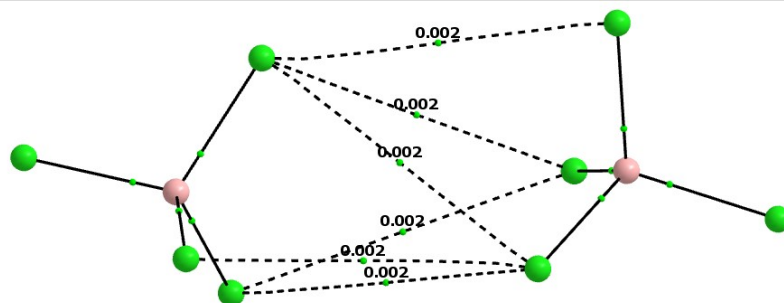
$\text{InF}_4^- \cdots \text{InF}_4^-$



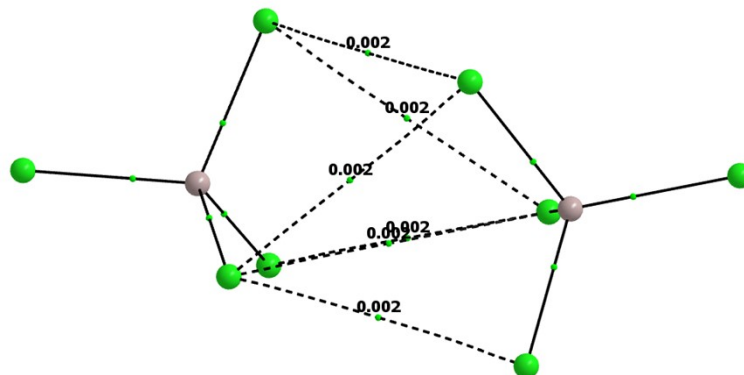
$\text{TlF}_4^- \cdots \text{TlF}_4^-$



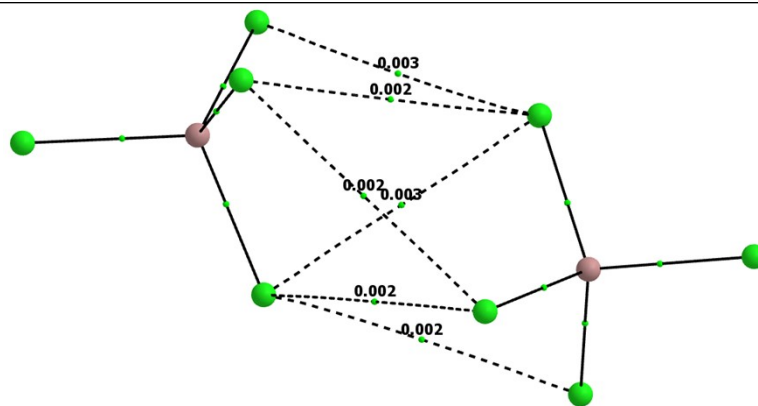
$\text{BCl}_4^- \cdots \text{BCl}_4^-$



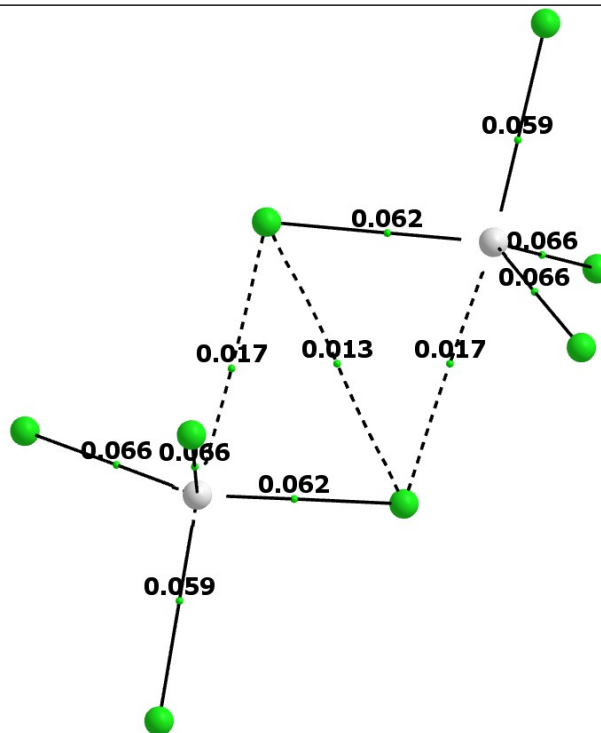
$\text{AlCl}_4^- \cdots \text{AlCl}_4^-$



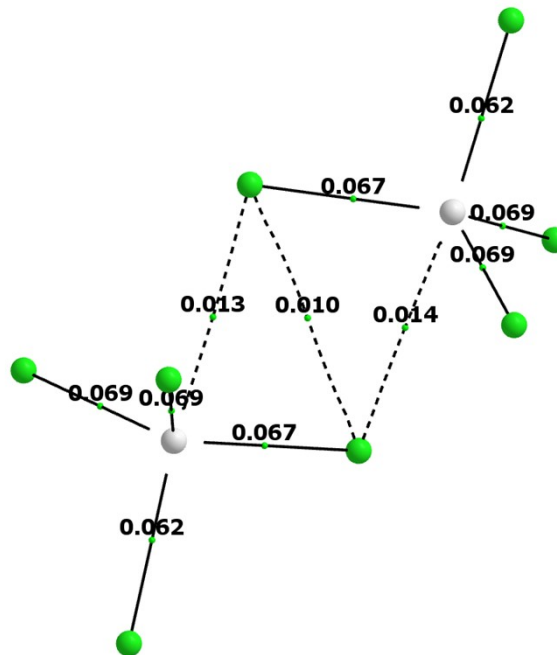
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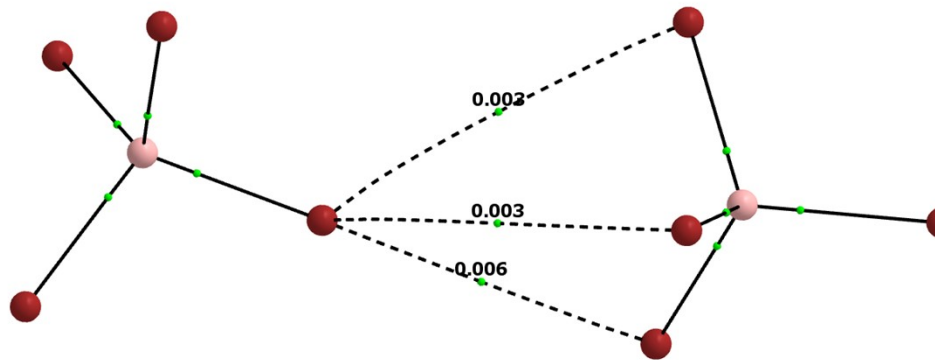
$\text{InCl}_4^- \cdots \text{InCl}_4^-$



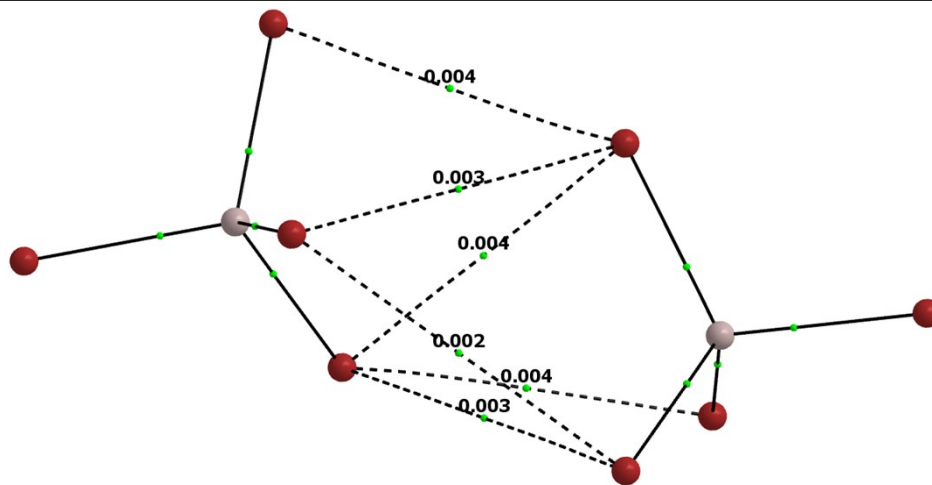
$\text{TlCl}_4^- \cdots \text{TlCl}_4^-$



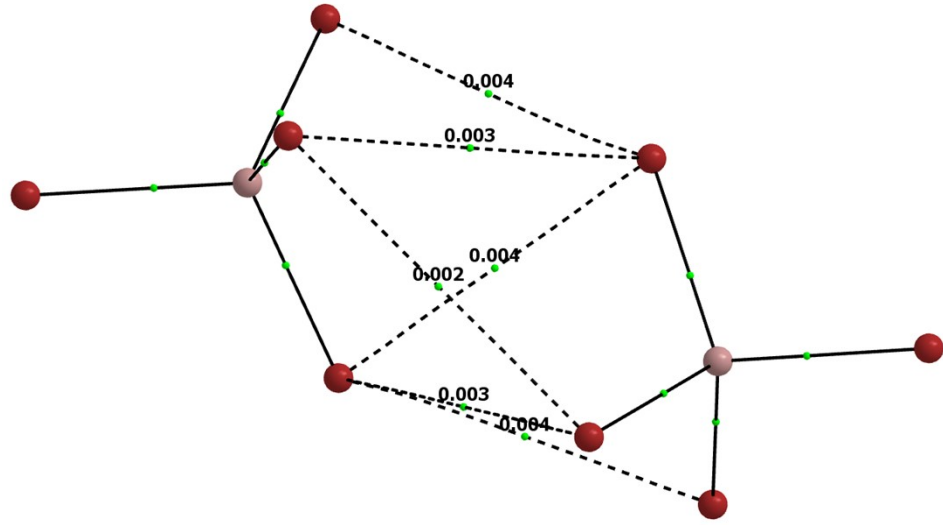
$\text{BBr}_4^- \cdots \text{BBr}_4^-$



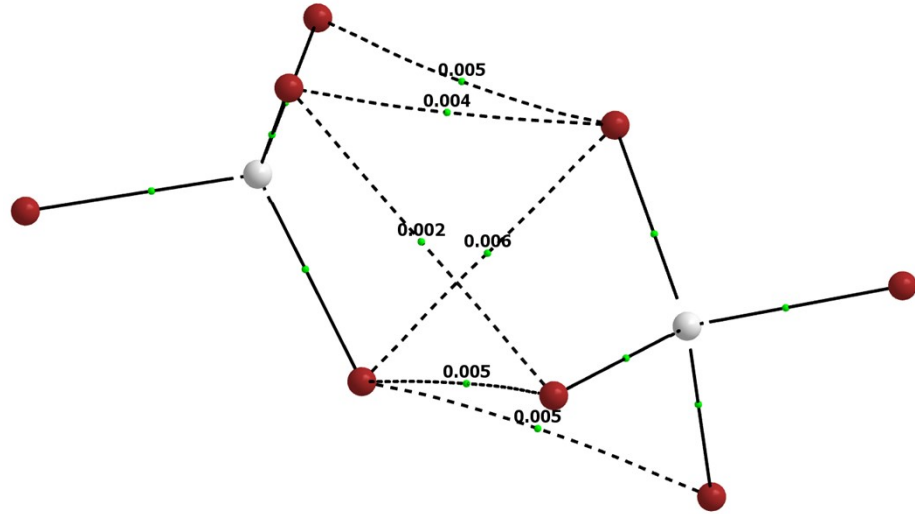
$\text{AlBr}_4^- \cdots \text{AlBr}_4^-$



$\text{GaBr}_4^- \cdots \text{GaBr}_4^-$



$\text{InBr}_4^- \cdots \text{InBr}_4^-$



$\text{TlBr}_4^- \cdots \text{TlBr}_4^-$

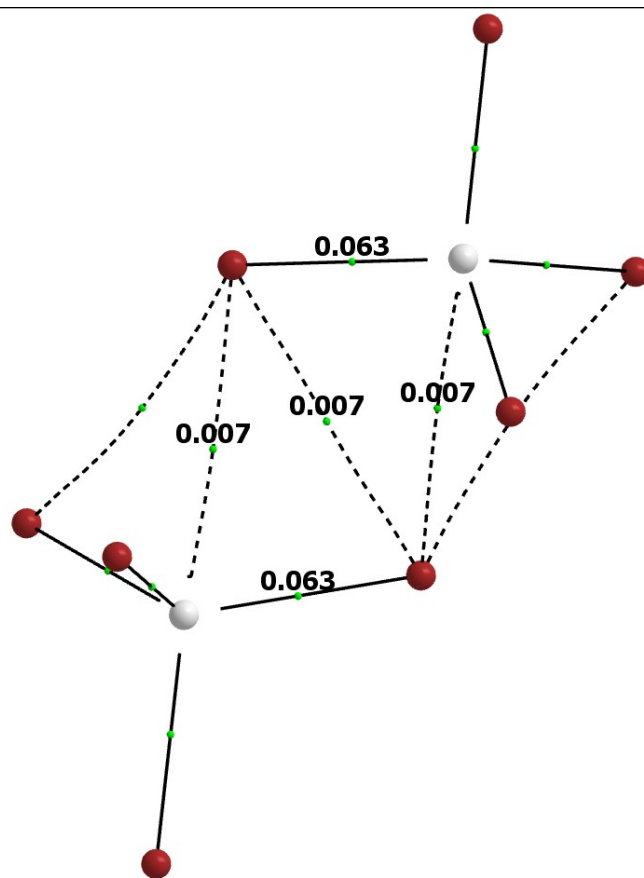


Fig. S3. AIM diagrams of investigated homodimers.