

Supplementary information

$OLi_3@nCF$

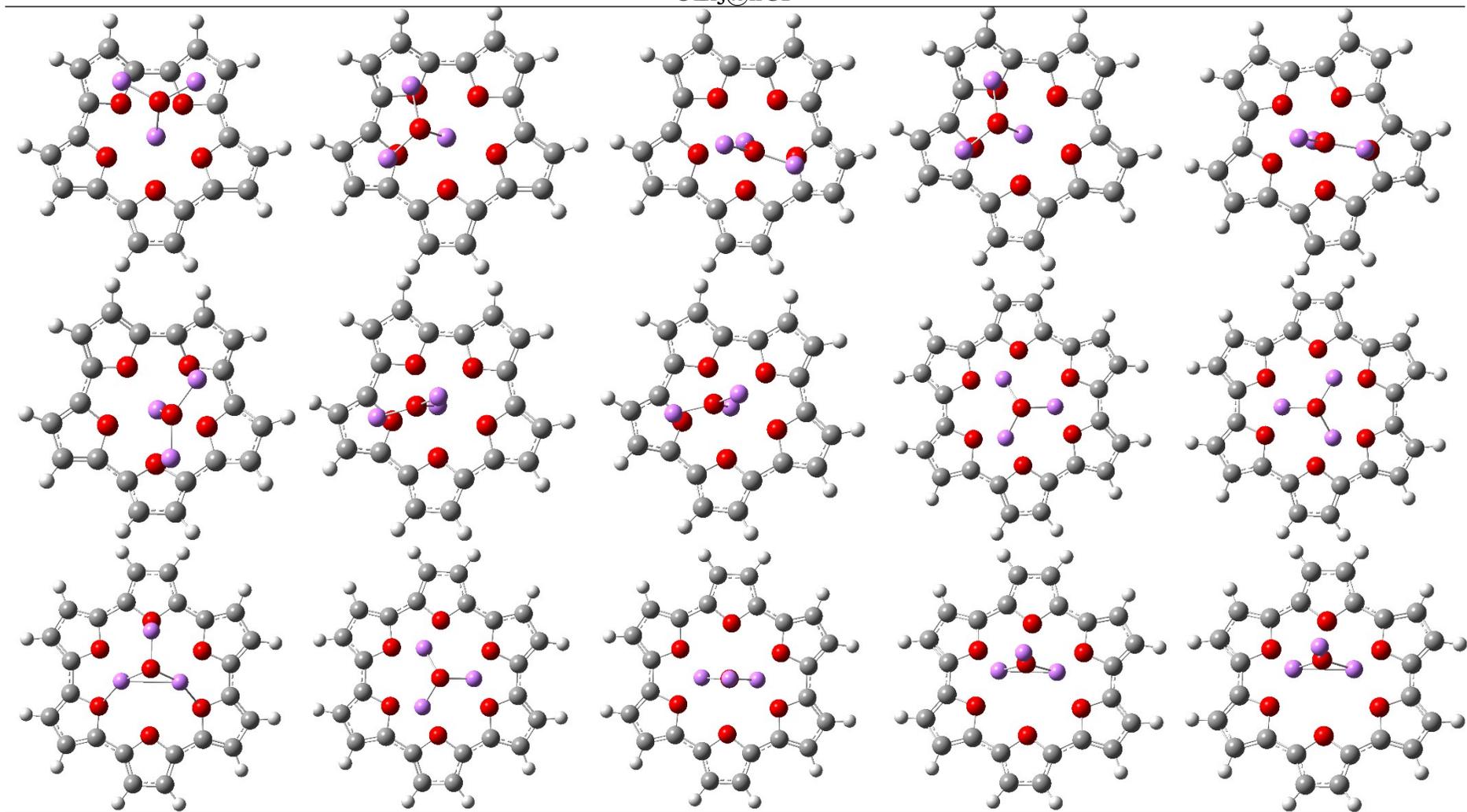


Fig. S1a. All the possible optimized geometries of $OLi_3@nCF$ complexes.

$\text{ONa}_3@\text{nCF}$

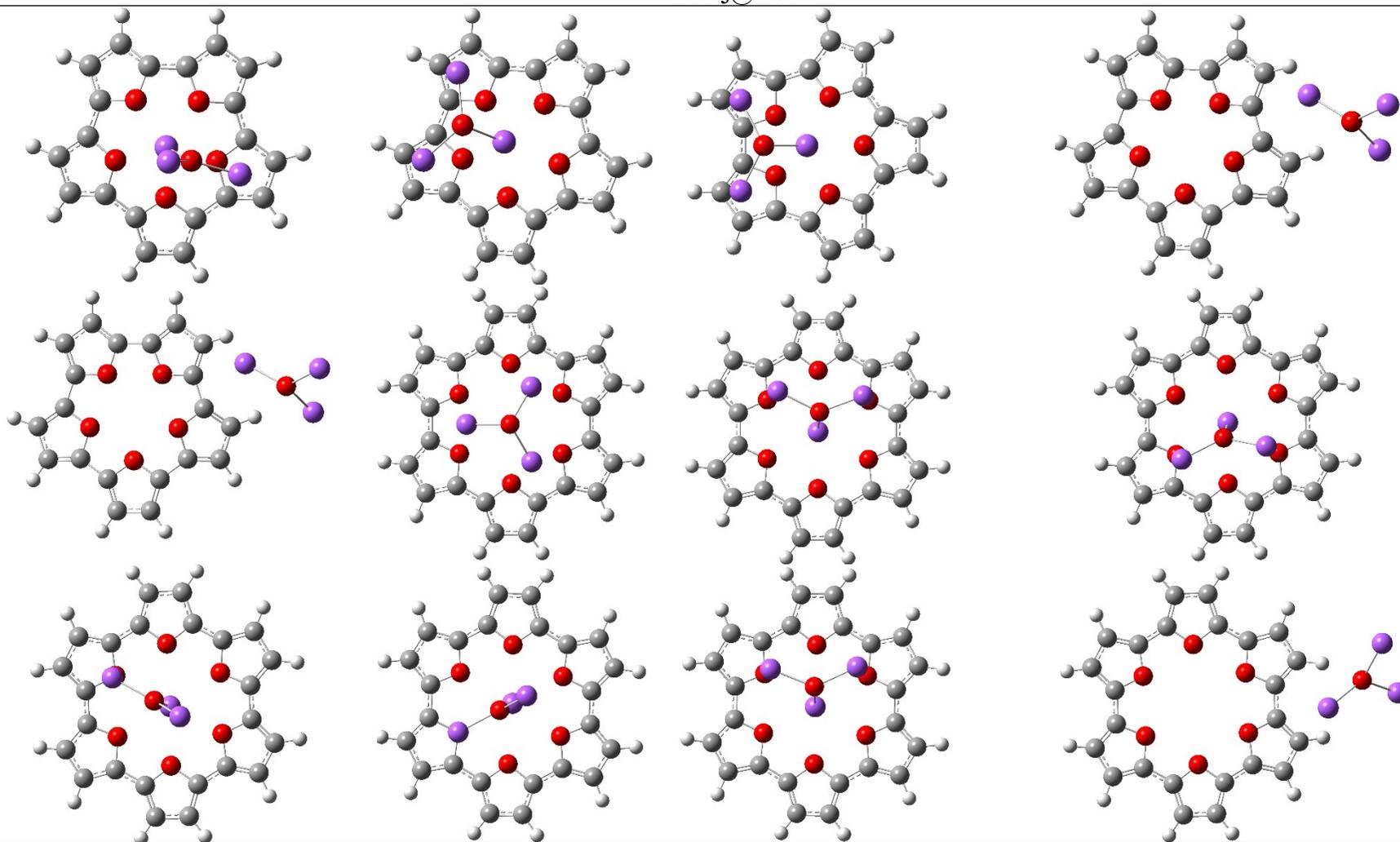


Fig. S1b. All the possible optimized geometries of $\text{ONa}_3@\text{nCF}$ complexes.

$\text{OK}_3@n\text{CF}$

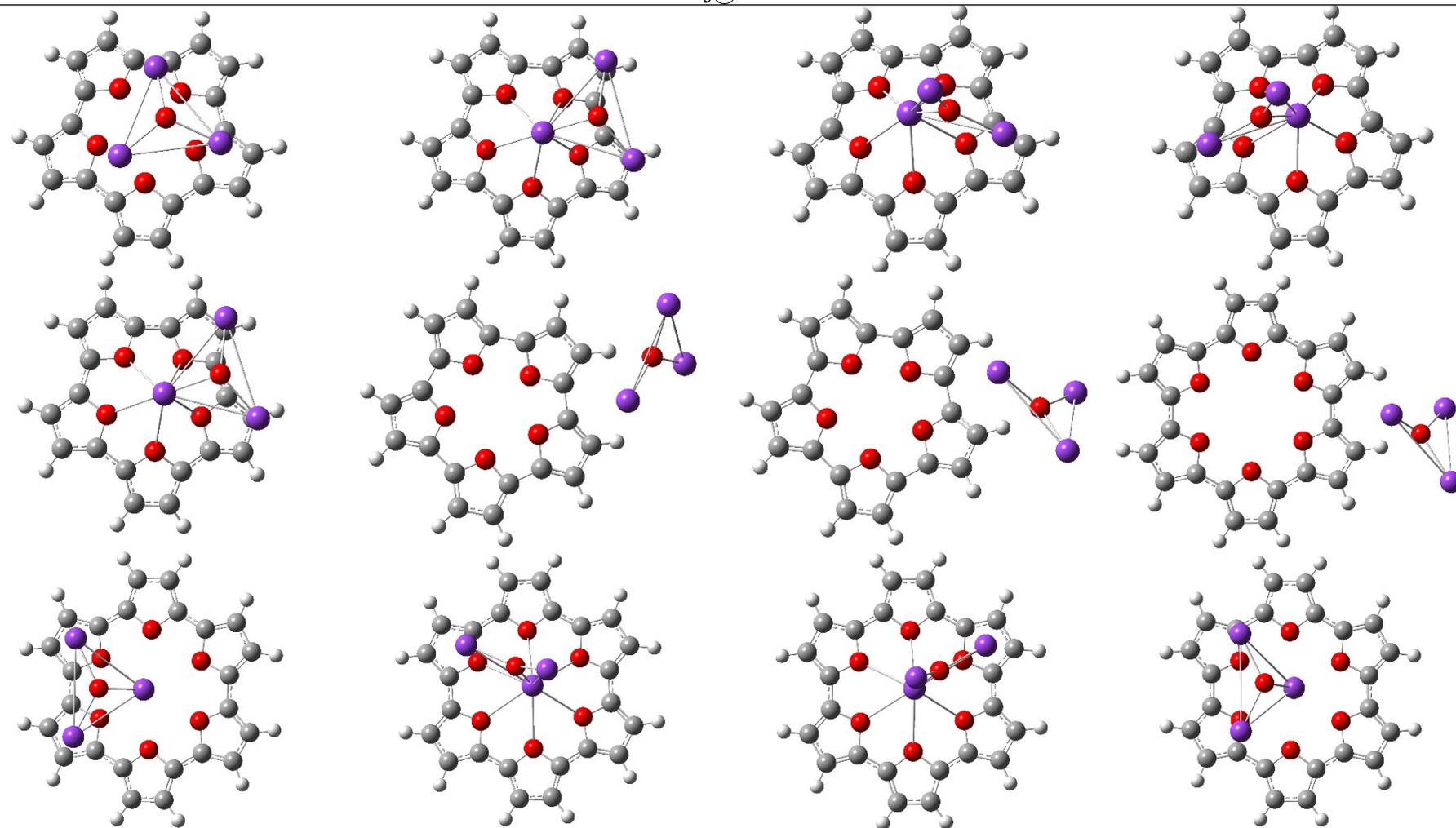


Fig. S1c. All the possible optimized geometries of $\text{OK}_3@n\text{CF}$ complexes.

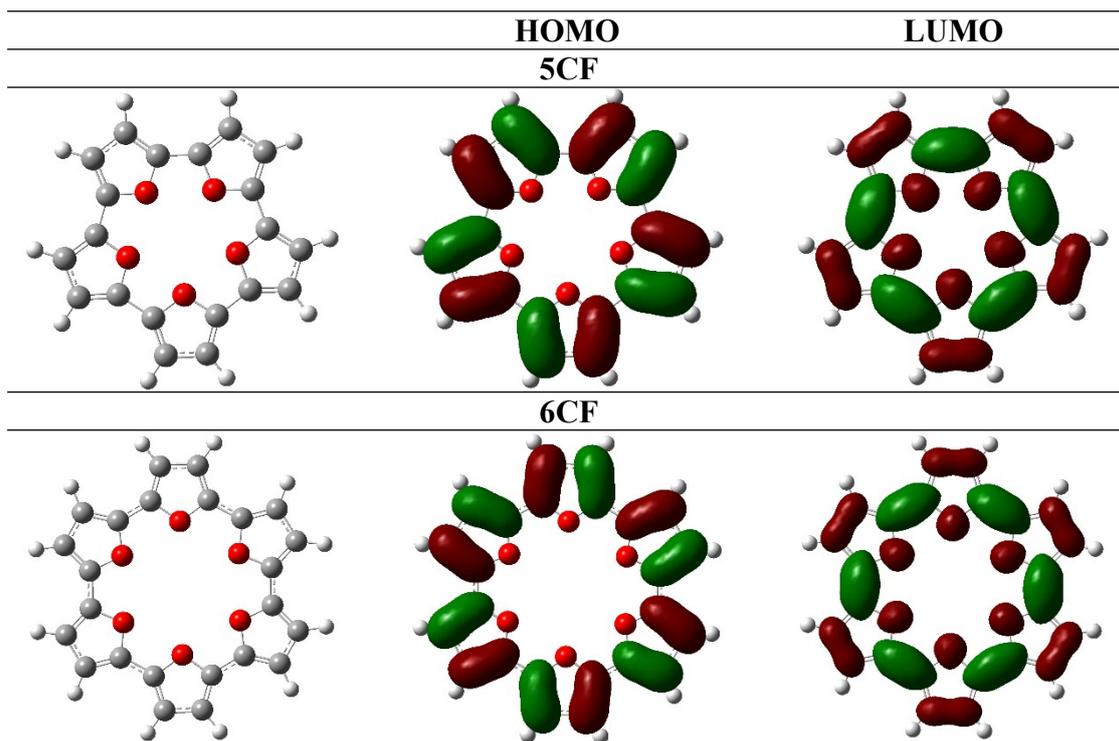


Figure S2.

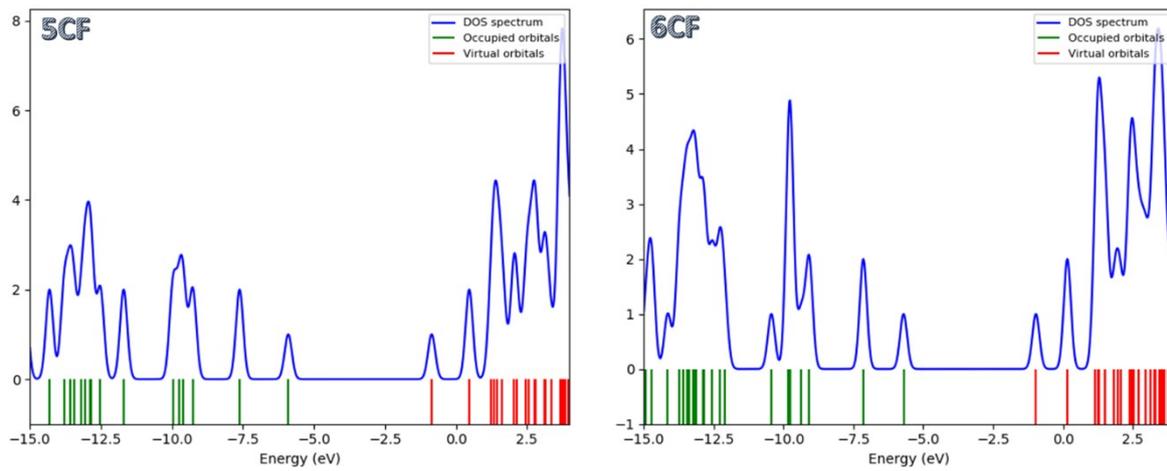


Figure S3. DOS spectra of isolated nCF.