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Enhanced Metallophilicity in Stimuli-responsive Dimer Complexes using Hard X-ray WAXS and HERFD-XAS

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We are investigating the formation of metallophilic bonds in luminescent stimuli-responsive compounds based on ligand-supported Au(I)/Ag(I)/Cu(I) complexes upon electronic transition to the emissive excited state. Combining pump-probe X-ray absorption spectroscopy with high energy resolution (HERFD-XAS) and wide-angle X-ray scattering (WAXS) in the solution we can visualize the local redistribution of electron density as well as the drastic changes in molecular structure when a weak metallophilic bond is formed in the triplet excited state.

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