Supporting Information

for

Cuprophilic Interactions in Luminescent Copper(I) Clusters with

Bridging Bis(dicyclohexylphosphino)methane and Iodide Ligands.

Spectroscopic and Structural Investigations

by

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Figure S1. Room temperature time-resolved difference absorption spectra of
[Cu₂(dcpm)₂(CH₃CN)₂](BF₄)₂ (7.6×10⁻⁵ M) recorded at 1, 2.4, 4.5, 9.0, 92 µs after
excitation at 266 nm in degassed acetonitrile solution. Inset: decay traces of transient
difference absorption spectra of [Cu₂(dcpm)₂(CH₃CN)₂](BF₄)₂ monitored at 400 nm.
Figure S2. Room temperature time-resolved difference absorption spectra of (CuI)$_4$(dcpm)$_2$ (1.2×10$^{-5}$ M) recorded at 1, 1.7, 3.1, 5.2, 92 µs after excitation at 266 nm in degassed acetonitrile solution.

Figure S3. Decay traces of transient difference absorption spectra of (CuI)$_4$(dcpm)$_2$ monitored at 390 nm.