Supplementary Information

Preparation of (μ-Te_2)$Fe_2(CO)_6$ by Rauchfuss method with some modifications. (μ_3-Te_2)$Fe_3(CO)_9$ (10.0 g, 14.8 mmol) was added to a 2-L, round-bottomed flask containing a MeONa solution prepared from reagent grade methanol (600 mL) and sodium chips (1.36 g, 59.2 mmol), and then the mixture was stirred at room temperature for 2 h. After water (200 mL) and petroleum ether (200 mL) were added, the new mixture was acidified with 6 M HCl (ca. 20 mL) until its pH value reached to 1–2. The aqueous layer was separated and extracted with petroleum ether (3×100 mL) and the combined organic extracts were washed with H_2O (3×100 mL) and dried over anhydrous $MgSO_4$. The petroleum ether solution was concentrated to a small volume (ca. 20 mL) (note that evaporation to dyness resulted in considerable polymerization), which was subjected to column chromatography packed with silica gel. Elution with petroleum ether developed a major red band, from which a petroleum ether solution (ca. 500 mL) containing (μ-Te_2)$Fe_2(CO)_6$ (2.53 g, 32% yield) was obtained. The yield of (μ-Te_2)$Fe_2(CO)_6$ was determined by using UV-vis spectroscopy based on ε_{348} = 1.07×10^4 cm^2mol^{-1}.