Supporting Information

Probing the potential of N-heterocyclic carbenes in molecular electronics: Redox-active metal centers interlinked by a rigid ditopic carbene ligand

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Deconvolution of the DPV signals for the Ru₂ complexes 3a and 3b has been carried out by superimposing two shifted DPV signals as obtained from the oxidation of the monometallic species 6a and 6b, respectively.

Fig. S1 a) Cyclovoltammetry diagram of complex 3a (top, left) and 3b (top, right); b) Relevant sections of the differential pulse voltammetry analysis (blue bold lines) together with the curves obtained from deconvolution (grey lines, red is the sum of the two deconvoluted curves, showing the excellent match with the measured data). The peak separations are 58 mV (for 3a, left) and 42 mV (for 3b, right), respectively.
Fig. S2. Concentration dependence of the anodic peak current for the dimetallic complex 3a and its monometallic analogue 6a. The ratio of the slopes is 1.75 and hence in good agreement with a 2-electron process in 3a.