Electric Supplemental Information for:

Modulating the Polyoxometalate-based Inorganic-organic Hybrids from Simple Chain to Complicated Framework via Changing POM Clusters†

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Chart S1. Structure of itb ligand.

Scheme S1. View of the typical coordination modes of itb.
Table S1. View of the coordination modes of POMs, itb ligands and Cu ions as well as the structural motifs of Cu-itb complexes in 1–3.

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<th>Coordination mode of POMs</th>
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<th>Motifs of Cu-itb complexes</th>
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Fig. S1. View of the assembly process of the 1D poly-pendant infinite chain in 2.
Fig. S2. Schematic views of the 3D framework in 3.

Fig. S3. XPS of compound 1.

Fig. S4. IR spectra of compounds 1–3.
Fig. S5. The simulative (black) and experimental (red) powder X-ray diffraction patterns for compounds 1–3.

Fig. S6. A linear dependence of the reduction cathodic catalytic current of wave I’ with different nitrite concentration (a for 1-CPE, b for 2-CPE and c for 3-CPE) in the buffer solution (scan rate: 0.02 V·s⁻¹). The concentrations are 0, 2, 4, 6, 8 mM for nitrite.

Fig. S7. 40 consecutive CV cycles of the CPEs (a for 1-CPE, b for 2-CPE and c for 3-CPE) at 100 mV s⁻¹.