Electronic Supplementary Information (ESI)

for

Selective formation of five coordination polymer particles (CPPs) and their gas sorption

properties

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Fig. S1. The emission spectra of CPP-10 (orange), CPP-11 (green), CPP-12 (black), CPP-13 (blue) and CPP-14 (red).



Fig. S2. TGA curves of (a) CPP-10, (b) CPP-11, (c) CPP-12, (d) CPP-13 and (e) CPP-14.

Fig. S3. PXRD patterns of (a) CPP-10 and (b) CPP-11.

Fig. S4. PXRD patterns of (a) CPP-12, (b) CPP-13 and (c) CPP-14.

Fig. S5. EDX spectra of (a) CPP-12, (b) CPP-13 and (c) CPP-14. EDX spectra of all CPPs, in which carbon, oxygen and indium atoms were observed, revealing that the resulting particles contained the organic linker and metal node.

Fig. S6. Broad area SEM image of rod-shaped CPP-10.

Fig. S7. Broad area SEM image of lump-shaped CPP-11.

Fig. S8. Broad area SEM image of ribbon-shaped CPP-12.

Fig. S9. Broad area SEM image of sphere-shaped CPP-13.

Fig. S10. Broad area SEM image of sea urchin-shaped CPP-14.