Electronic Supplementary Information

Scorpion-shaped Carboxylate Ligand Tailored Molecular Square, Bilayer, Self-threading and (3, 6)-Connected Nets

Xin-Yi Cao\textsuperscript{a,b}, Jian Zhang\textsuperscript{a}, Zhao-Ji Li\textsuperscript{a}, Jian-Kai Cheng\textsuperscript{a} and Yuan-Gen Yao\textsuperscript{a}*  

\textsuperscript{a} State Key Laboratory of Structural Chemistry, Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences, Fuzhou, Fujian 350002, China; E-mail: yyg@fjirsm.ac.cn  

\textsuperscript{b} Graduate University of the Chinese Academy of Sciences, Beijing 100039, China

\textbf{Fig. S1} X-ray powder diffraction profiles of compound 1 after heat treatment in air. Data were collected on (a) theoretic simulation from the single crystal data, (b) the as-grown crystal obtained directly from the reaction, (c) the same crystal after heating it to 270°C for 10 minutes.
Fig. S2 X-ray powder diffraction profiles of compound 1 after heat treatment in air. Data were collected on (a) theoretic simulation from the single crystal data, (b) the as-grown crystal obtained directly from the reaction, (c) the same crystal after heating it to 34°C for 10 minutes, and (d) the same crystal after heating it to 360°C for 30 minutes.