Supporting Information for “Solvent-Mediated Crystal-to-Crystal Transformation within CoBr$_2$(1,4-dioxane)$_m$(H$_2$O)$_n$ Family (m = 2, 3; n = 0, 2, 4) from 2D to 1D, and 0D” by Bin Zhang et al

Scheme S1. The structural relationship between 1, 2, 3 and 4, 5.
Scheme S2. The relationship between 1, 2, 3, 4, 5 and CoBr$_2$(H$_2$O)$_6$. 

\[
\begin{align*}
2 & \quad \text{CoBr}_2(1,4\text{-dioxane})_2(H_2O)_2 \\
1 & \quad \text{CoBr}_2(1,4\text{-dioxane})_2 \\
3 & \quad \text{CoBr}_2(1,4\text{-dioxane})_{3}(H_2O)_4 \\
4,5 & \quad \text{CoBr}_2(1,4\text{-dioxane})_{2}(H_2O)_4 \\
& \quad \text{CoBr}_2(H_2O)_6
\end{align*}
\]
Figure S1. IR spectra of 1, 2, 4, and 5.
Figure S2. TGA plots of CoBr$_2$(1,4-dioxane)$_2$ (1), CoBr$_2$(1,4-dioxane)$_3$(H$_2$O)$_4$ (3), CoBr$_2$(1,4-dioxane)$_2$(H$_2$O)$_4$ (5) from room-temperature to 700°C.
Figure S3. XPRD plots of 4, 5.