Supplementary Information

Novel nickel metal-organic framework with fluorite-like structure: Gas adsorption properties and catalytic activity in Knoevenagel condensation

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\begin{figure}
\centering
\includegraphics[width=\textwidth]{figureS1.png}
\caption{TG/DTG-DTA curves of 1 measured in atmosphere of air.}
\end{figure}
**Figure S2.** Nitrogen adsorption isotherms of 1 measured after activation of the sample at: 150°C (green circles), 250°C (red squares), 300°C (black triangles).

**Figure S3** Optical microscopy images of as synthesized sample 1 a) 5 x zoom, b) 2 x zoom. Microscopy images of 1 activated at 250°C (c); after 5-minute explosion at room temperature and ambient humidity (d); sample after resolvatation in a solvent mixture DMF/EtOH/H₂O (1:1:1) (solvatochromism).