Supporting Information for

A Chiral Salen-based MOF Catalytic Material with highly thermal, aqueous and chemical stabilities

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Figure S1. IR spectrum of L

Figure S2. IR spectrum of 1
Figure S3. UV-vis spectrum of L.

Figure S4. $^1$H NMR of L.
Figure S5. $^{13}$C NMR of L

Figure S6. HR-MS of L
Figure S7. (a) $^1$H NMR of NiL in d-DMSO; (b) $^1$H NMR of NiL in d-DCl and d-DMSO (V/V, 1:1); (c) $^1$H NMR of I after dissolved in d-DCl and d-DMSO (V/V, 1:1).
Figure S8. Asymmetric unit of 1

Figure S9. Space-filling model of the 8-fold interpenetrated framework along a axis
Figure S10. TG curve of 1

$^{1}H$ NMR
Figure S11. NMR spectra of β-hydroxy-1,2,3-triazoles
Figure S12. GC-MS analyses of the cyclic carbonates
Figure S13. Proposed mechanism for the cycloaddition of CO$_2$ with epoxides catalyzed by 1
Table S1. BET plot data for 1

BET Surface Area:  527.7582 ± 3.3610 m²/g

Slope:  0.008244 ± 0.000052 g/cm³ STP

Y-Intercept:  0.000003 ±0.000003 g/cm³ STP

C:  2873.98242

Qm:  121.252 cm³/g STP

Correlation Coefficient:  0.9999595

Molecular Cross-Sectional Area:  0.1620 nm²

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<th>Relative Pressure (P/P₀)</th>
<th>Quantity Adsorbed (cm³/g STP)</th>
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