

Supporting Information

Preparation and Characterization of Metal-Organic Frameworks and its Composite $\text{Eu}_2\text{O}_3@[\text{Zn}_2(\text{bdc})_2\text{dabco}]$ (ZBDh) via Pulsed Laser

Ablation in Flow Liquid

Qianhuo Chen^{*a}, Qing Liu^b, Yingbing Zou^a, Lihua Wang^b, Xiuling Ma^b, Zhangjing Zhang^b, Shengchang Xiang^{*b}

^a Fujian Key Laboratory of Pollution Control & Resource Reuse, College of Environmental Science and Engineering, Fujian Normal University, Fuzhou 350007, China

^b Fujian Provincial Key Laboratory of Polymer Materials, College of Chemistry and Materials Science, Fujian Normal University, Fuzhou 350007, China

E-mail: scxiang@fjnu.edu.cn; qhchen@fjnu.edu.cn

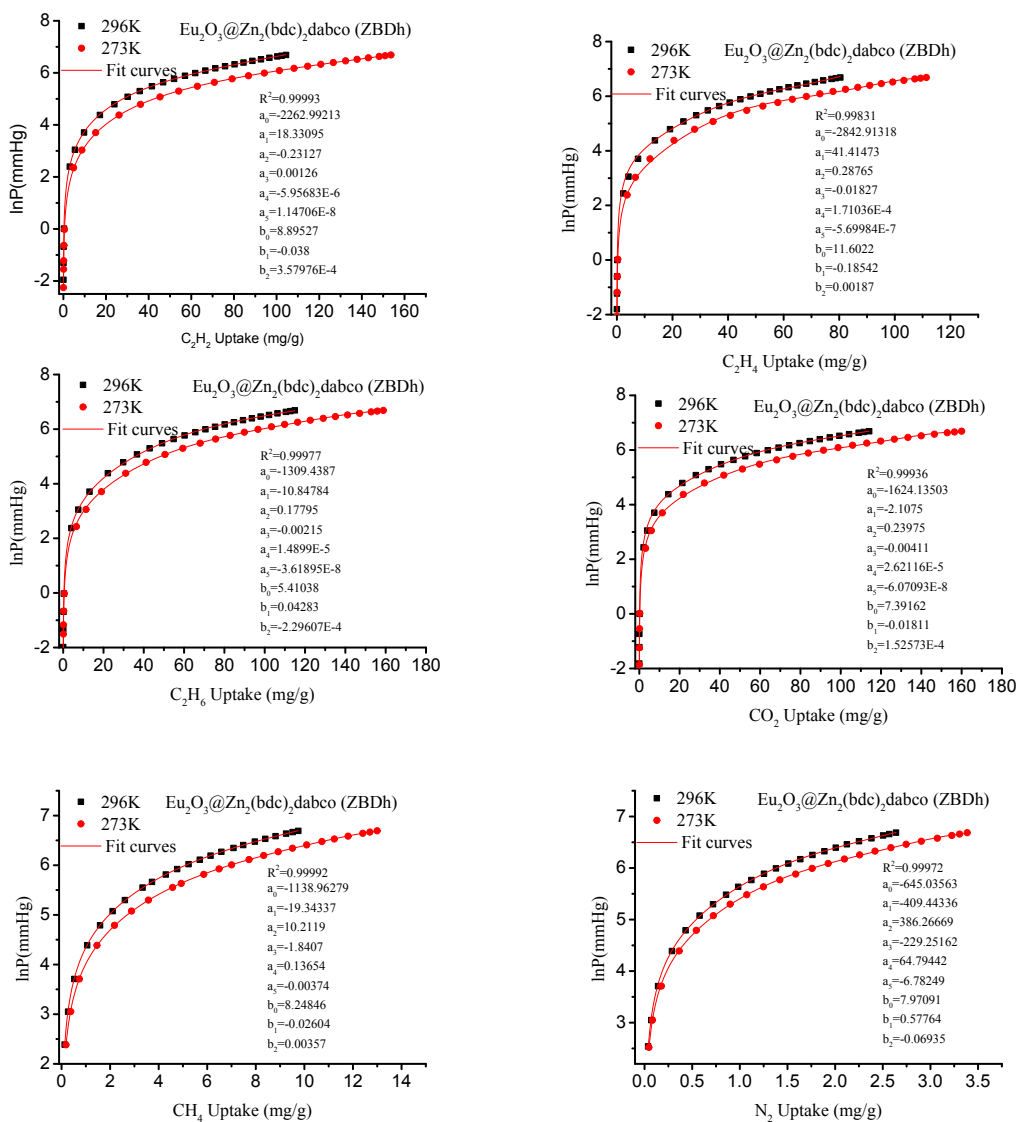


Figure. S1 The details of virial equation (solid lines) fitting to the experimental C_2H_2 (a), C_2H_4 (b), C_2H_6 (c), CO_2 (d), CH_4 (e) and N_2 (f) adsorption data (symbols) for composite $\text{Eu}_2\text{O}_3@[\text{Zn}_2(\text{bdc})_2\text{dabco}]$ (ZBDh)(sample 3).

Table S1 Virial graph analyses data for composite **Eu₂O₃@[Zn₂(bdc)₂dabco](ZBDh)(sample 3)**

adsorbate	T(K)	A ₀ /ln(molg ⁻¹ Pa ⁻¹)	A ₁ /gmol ⁻¹	R ²	K _H (mol g ⁻¹ Pa ⁻¹)
C ₂ H ₂	296K	-16.65469 ± 0.0063	-112.49875 ± 2.44014	0.99718	5.847 × 10 ⁻⁸
	273K	-16.17561 ± 0.01097	-92.49127 ± 3.97657	0.99265	9.441 × 10 ⁻⁸
C ₂ H ₄	296K	-16.89201 ± 0.01035	-206.42565 ± 6.19934	0.99372	4.612 × 10 ⁻⁸
	273K	-16.40012 ± 0.01634	-216.7058 ± 9.68476	0.99206	7.542 × 10 ⁻⁸
C ₂ H ₆	296K	-16.49453 ± 0.01054	-186.47888 ± 4.61228	0.99573	6.863 × 10 ⁻⁸
	273K	-16.0403 ± 0.01286	-187.231 ± 5.65232	0.99636	1.080 × 10 ⁻⁷
CO ₂	296K	-17.25741 ± 0.0003	-112.36749 ± 0.34469	0.99988	3.200 × 10 ⁻⁸
	273K	-16.81623 ± 0.00114	-116.72664 ± 1.06447	0.99934	4.975 × 10 ⁻⁸
CH ₄	296K	-18.88024 ± 0.0013	-184.29494 ± 4.65521	0.99366	6.315 × 10 ⁻⁹
	273K	-18.55902 ± 0.0011	-168.62847 ± 3.85143	0.99688	8.708 × 10 ⁻⁹