

1 A magnetic MOFs derivative with rich interactions formed under mild preparation conditions for the
2 extraction of non-steroidal anti-inflammatory drugs from the Yellow River

3 Hongmei Liu^{1*}, Shihao Dang¹, Gu A¹, Baogui Ye

4 ¹School of Chemistry and Chemical Engineering, Lanzhou Jiaotong University, Lanzhou 730000, China;

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* Corresponding author.

E-mail address: liuhongm@mail.lzjtu.cn

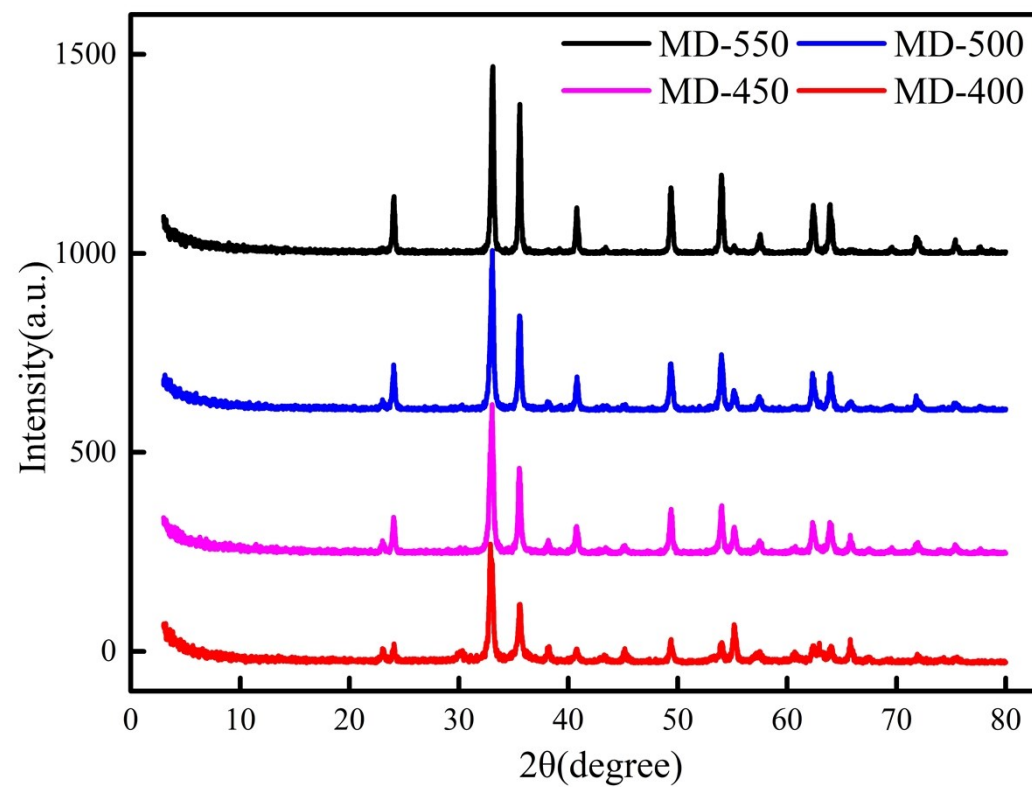


Fig. S1. XRD diagrams of MD-400, MD-450, MD-500 and MD-550.

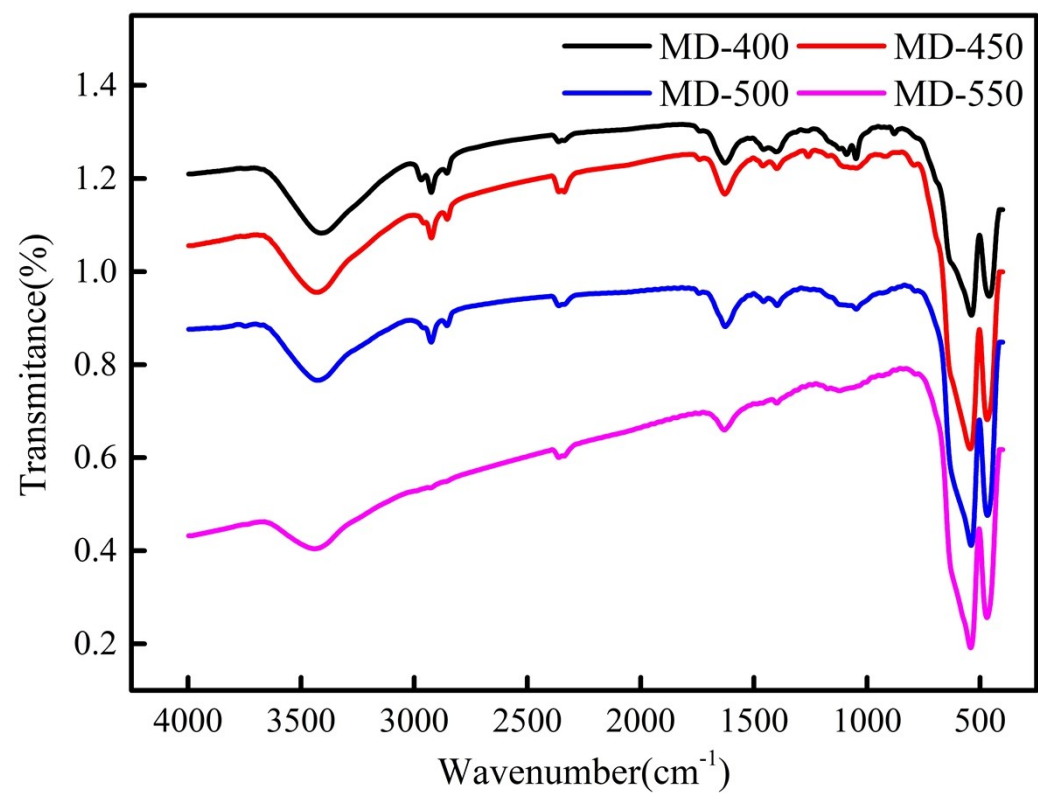


Fig. S2. FT-IR diagrams of MD-400, MD-450, MD-500 and MD-550.

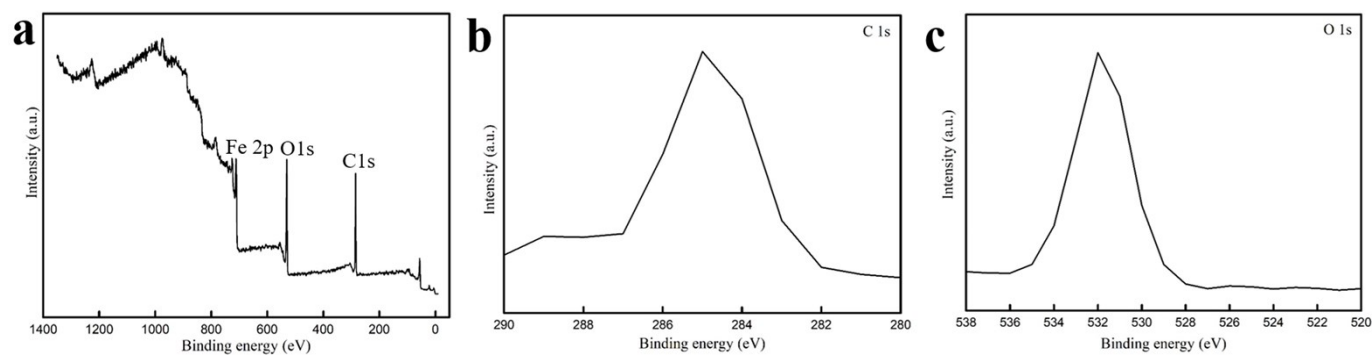


Fig. S3. (a) XPS spectra of the full survey scans of MD-350; (b) C 1s regions corresponding to the spectra of MD-350; (c) O 1s regions corresponding to the spectra of MD-350.

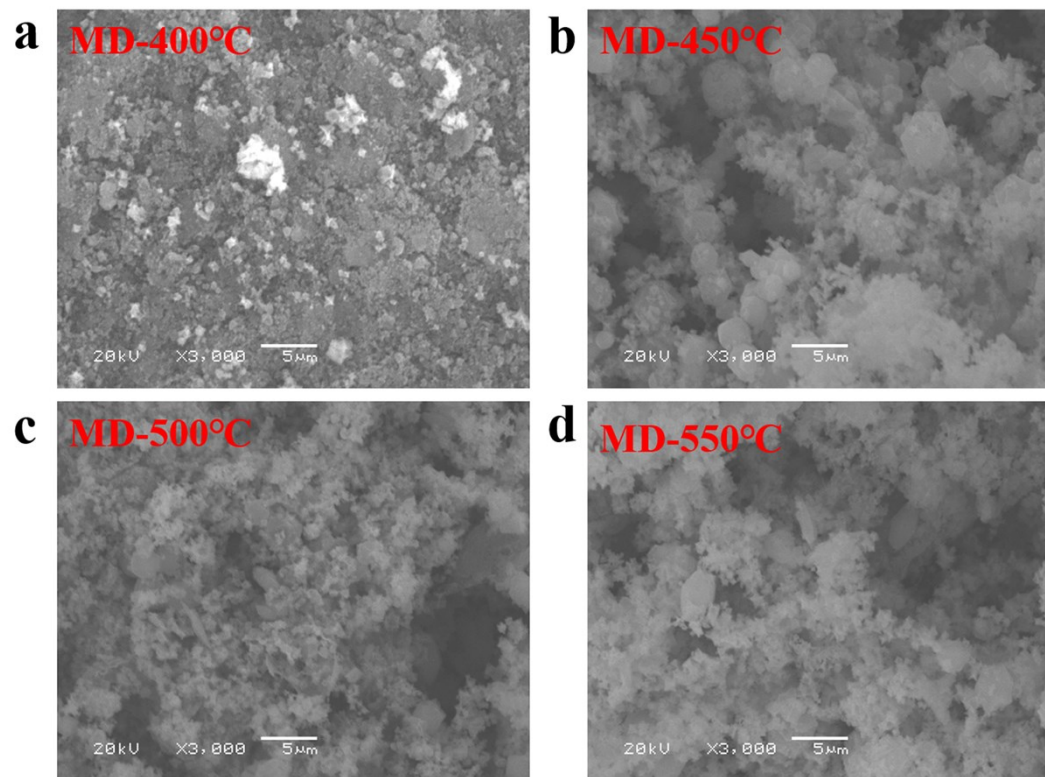


Fig. S4. SEM diagrams of MD-400, MD-450, MD-500 and MD-550.

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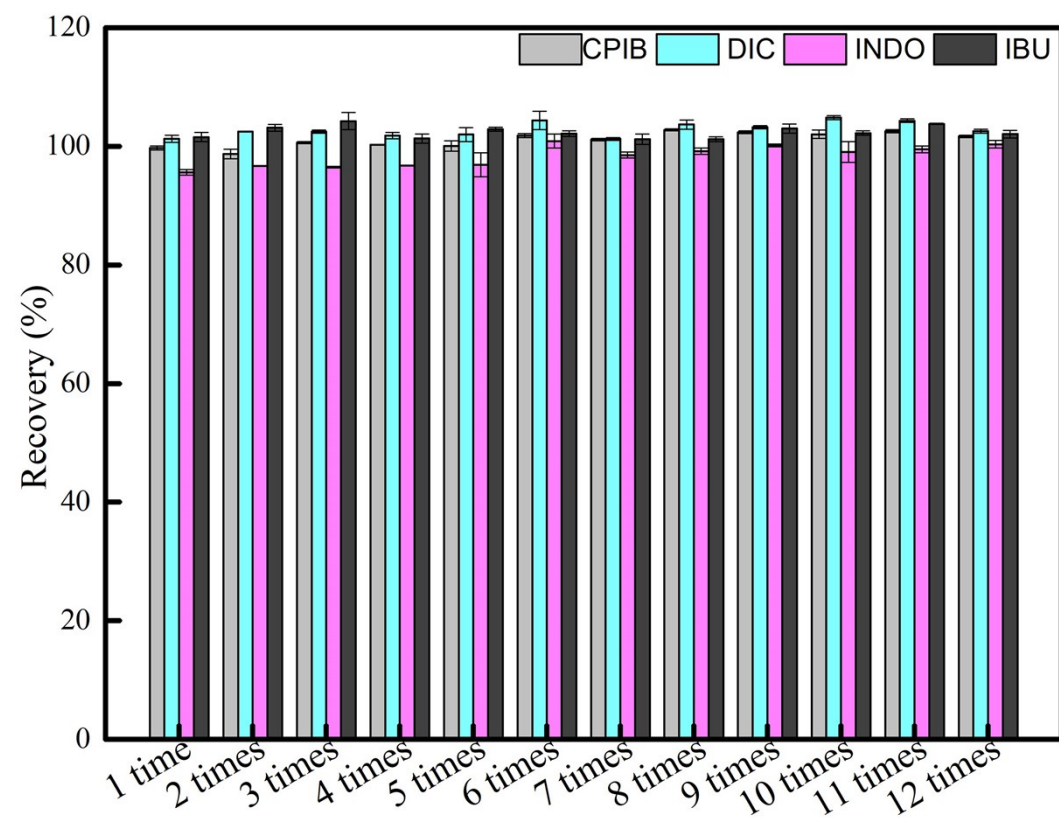
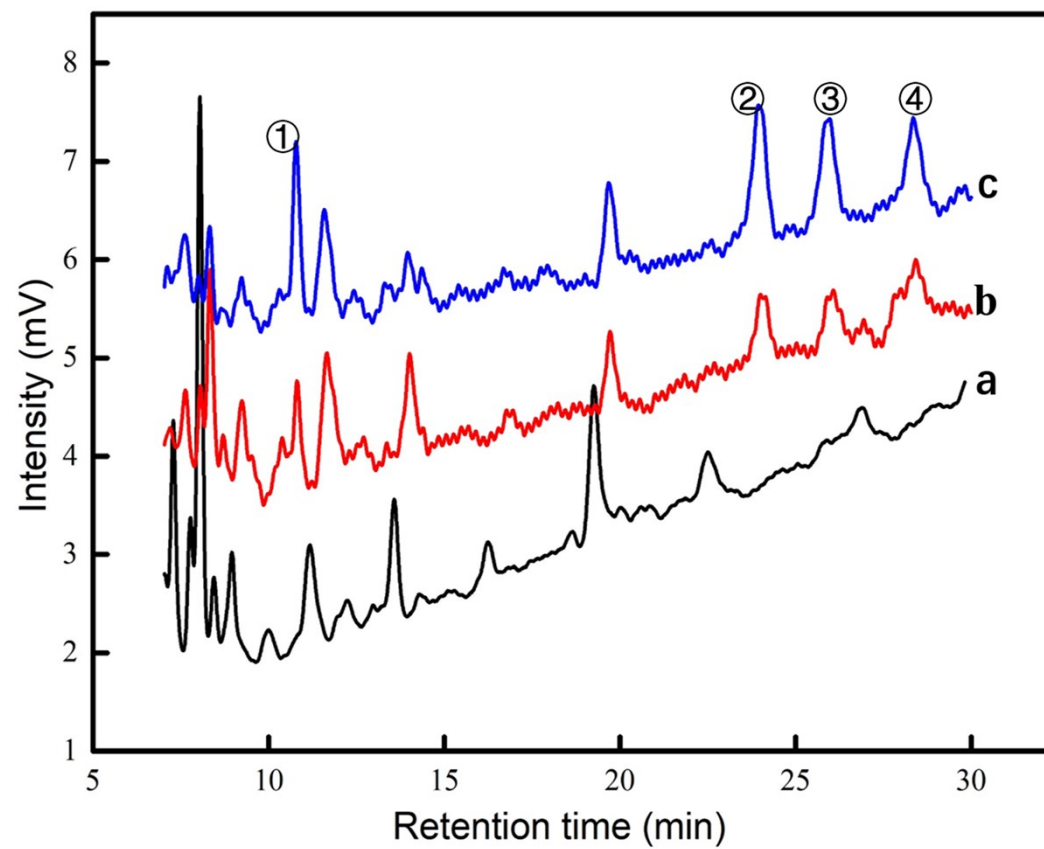


Fig. S5. Research on MD-350 reuse.



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27 Fig. S6. HPLC chart (a) river water (b) river water mixed with $5\mu\text{g L}^{-1}$ target analytes (c) river water mixed with $10\mu\text{g L}^{-1}$ target analytes (①CPIB,

28 ②DIC, ③INDO, ④IBU).

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31 Table. S1 Investigation of MD-350 stability

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Analyte	Acidic aqueous solution (pH=3) (24h)	Acidic aqueous solution (pH=3) (48h)	Acetone(24h)	Acetone(48h)
	ER (%)	ER (%)	ER (%)	ER (%)
CPIB	99.7±1.35	98.9±3.81	100.6±1.17	100.2±1.09
DIC	101.3±4.61	102.5±1.01	102.5±3.29	101.8±2.51
INDO	95.6±2.52	96.7±2.09	96.5±2.13	96.7±2.06
IBU	101.6±1.78	103.1±2.57	104.3±3.47	101.3±3.77

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