

## Exploration of a novel triazine-based covalent organic framework for solid-phase extraction of antibiotics

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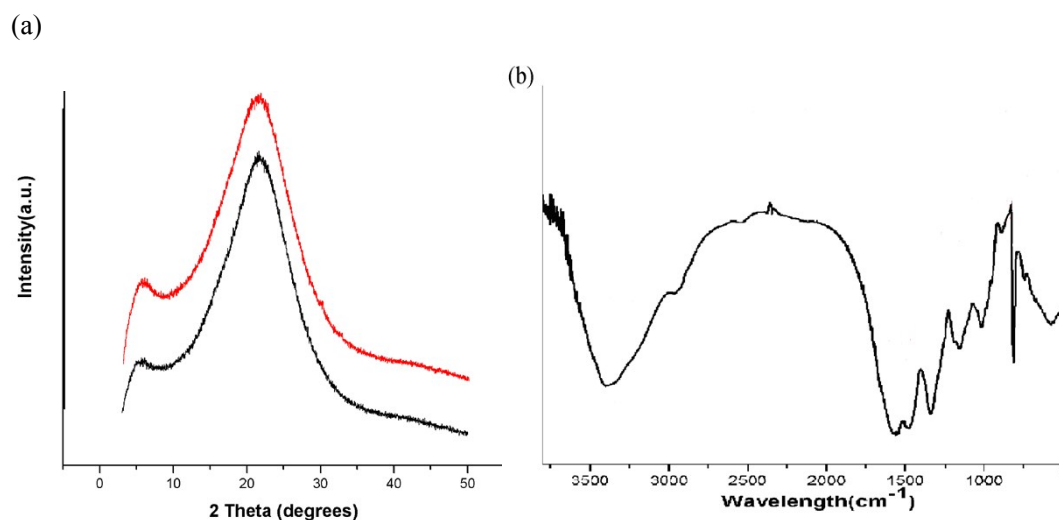


Fig.S1 (a)the PXRD pattern of SCAU-1(red) and SNW-1(black); (b) the IR pattern of SNW-1.

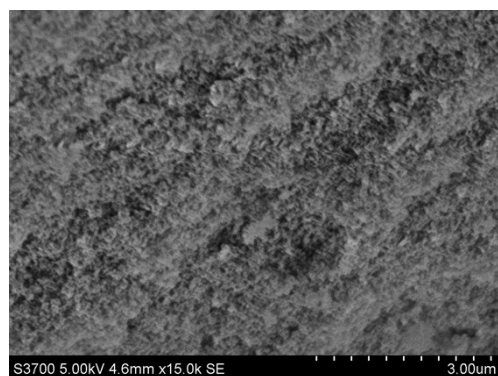


Fig.S2 The SEM of SNW-1

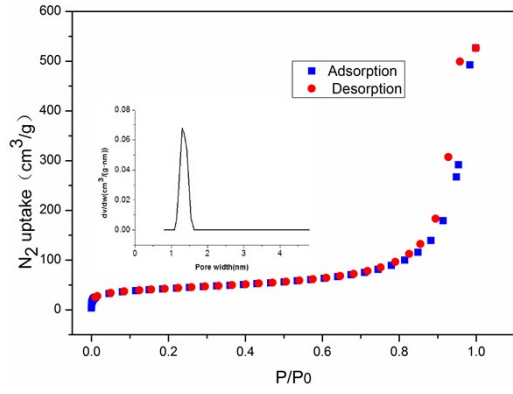


Fig.S3 Nitrogen adsorption/desorption at 77 K of the SNW-1 powder.

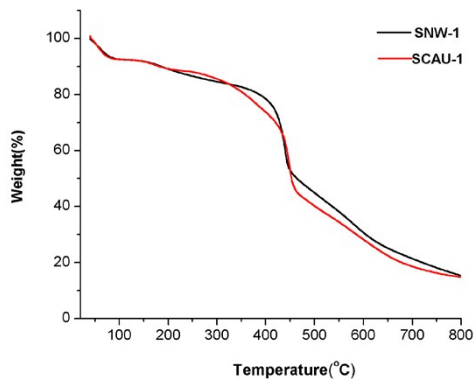


Fig.S4 The TGA pattern of the two COFs

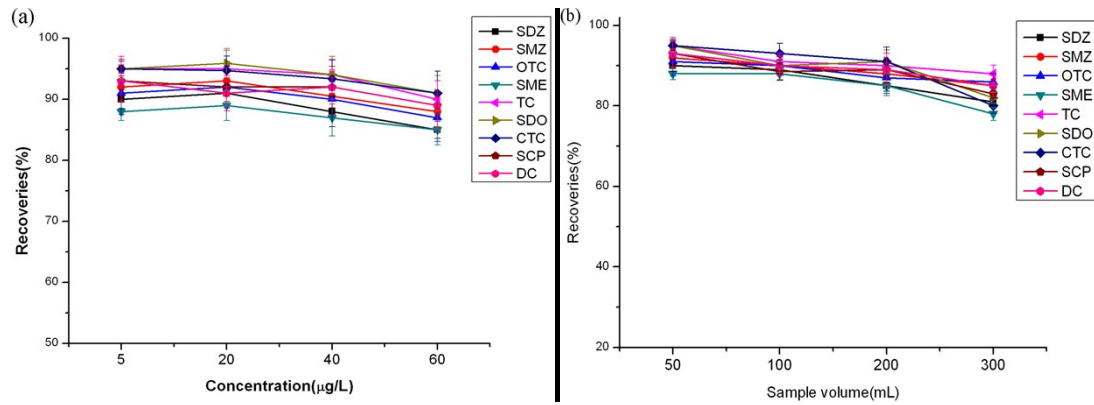


Fig.S5 (a) The loading capacity of 50mL water sample; (b) the breakthrough volume of water sample.

Table S1 The elution gradient of measurement by UPLC-MS/MS( A is water and 0.1% formic acid, B is acetonitrile and 0.1% formic acid )

Time (min)	A%	B%
0	90	10
4	90	10
6	60	40
6.1	0	100
8	0	100
8.1	90	10
10	90	10

Table .S2 The measurement condition of the analysts

Name	Structure	Parent ion- Daughter ion(m/z)	Cone/v	CE/v	RT (min)	SNW-1		
						Recoveries (%) <sup>a</sup>	RSD(n=3) <sup>a</sup>	
SDZ					251.3-92.1*/156.0	22	13	1.12
91.1	2.2							
SMZ					279.3-124.1*/156.0	12	14	1.79
93.3	2.8							

OTC		461.2-426.1*/443.1	25	28	2.15
81.9	3.3				
SME		281.3-92.1*/156.0	14	16	2.34
91.8	3.8				
TC		445.1-410.1*/427.1	28	30	2.63
87.0	3.5				
SDO		311.3-92.1*/108.1	15	16	4.85
92.2	4.2				
CTC		479.1-154.2*/ 444.2	28	30	5.38
88.0	5.5				
SCP		285.01-108.0*/156.0	25	15	6.17
93.7	3.8				
DC		445.1-167.0*/410.1	26	28	6.52
			89.1		4.1

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\*stands for quantification ion

<sup>a</sup>spiked level=5  $\mu$  g.L<sup>-1</sup>