

## Supplementary files

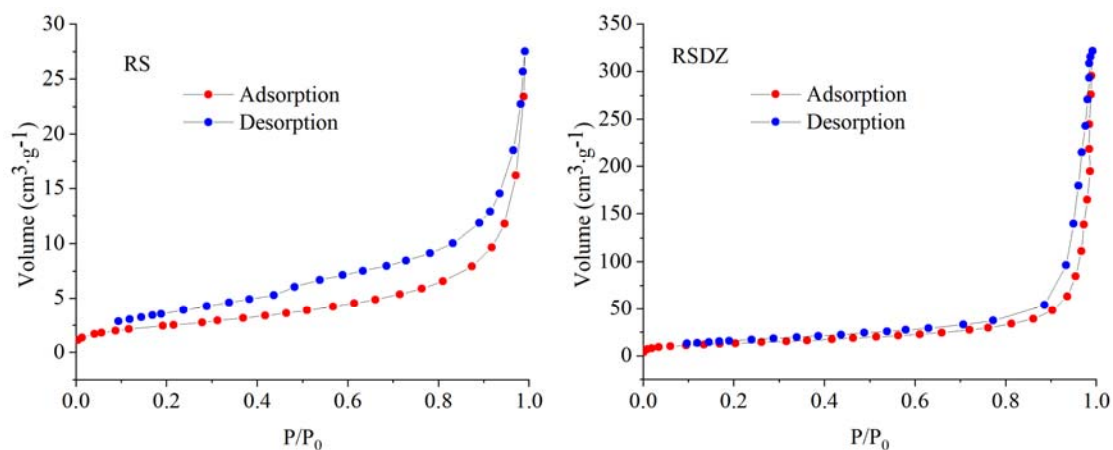


Figure S1. N<sub>2</sub> adsorption isotherms of RS and RSDZ

Table S1. Basic properties of Zn<sup>2+</sup>、Pb<sup>2+</sup> and Cu<sup>2+</sup> [1]

Heavy metal ions	Ionic radius (Å)	pK <sub>h</sub>	Relative atomic weight
Zn <sup>2+</sup>	0.74	9.0	65.41
Pb <sup>2+</sup>	1.19	7.71	207.2
Cu <sup>2+</sup>	0.72	8.0	63.55

## Reference

- [1] Park J-H; Ok Y-S; Kim S-H; et al. Competitive adsorption of heavy metals onto sesame straw biochar in aqueous solutions [J]. Chemosphere, 2016, 142: 77-83.