

Supplementary Information

Design and synthesis of an efficient nanoporous absorbent for Hg²⁺
and Pb²⁺ ions in water

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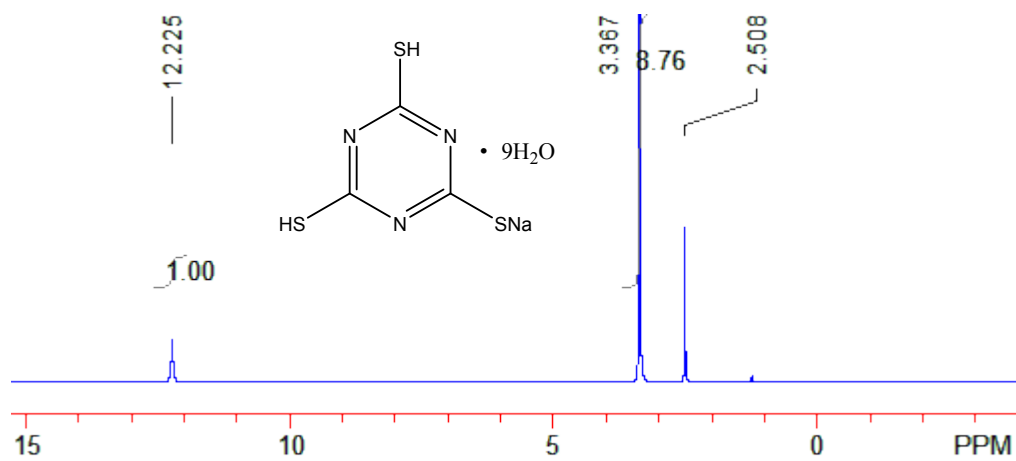
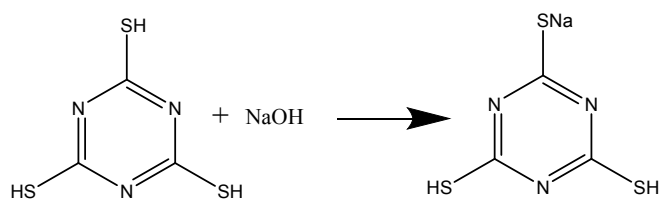


Fig. S1. ¹H NMR of trimercaptos-triazine-monosodium salt, (NaH₂C₃N₃S₃)·9H₂O
(-SH: 12.225 ppm; H₂O: 3.367 ppm; DMSO: 2.508 ppm)

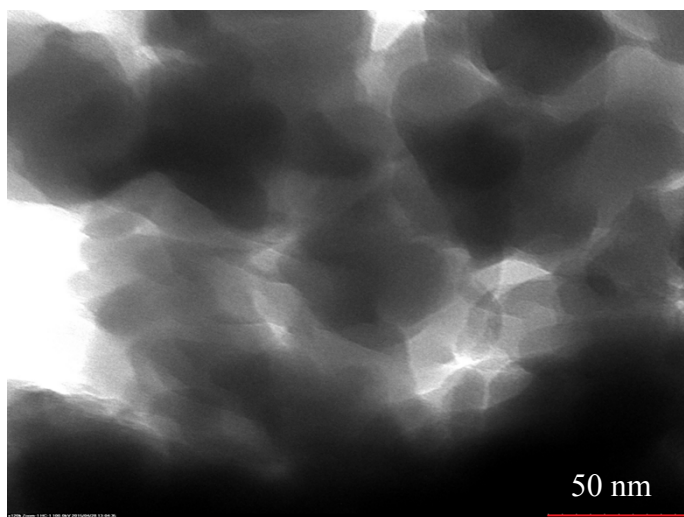


Fig. S2. TEM image of PTMT polymer.

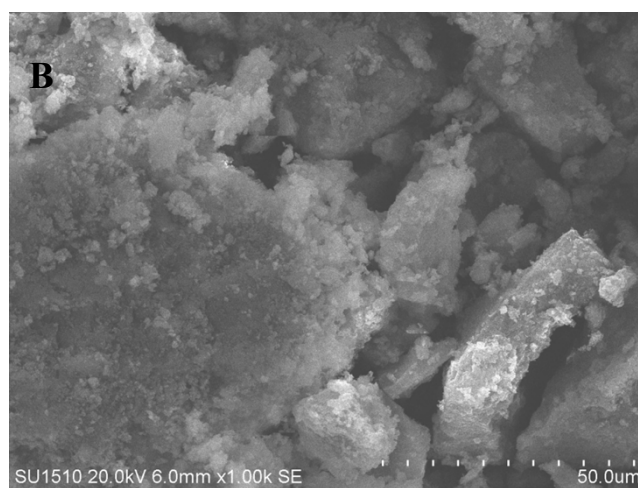
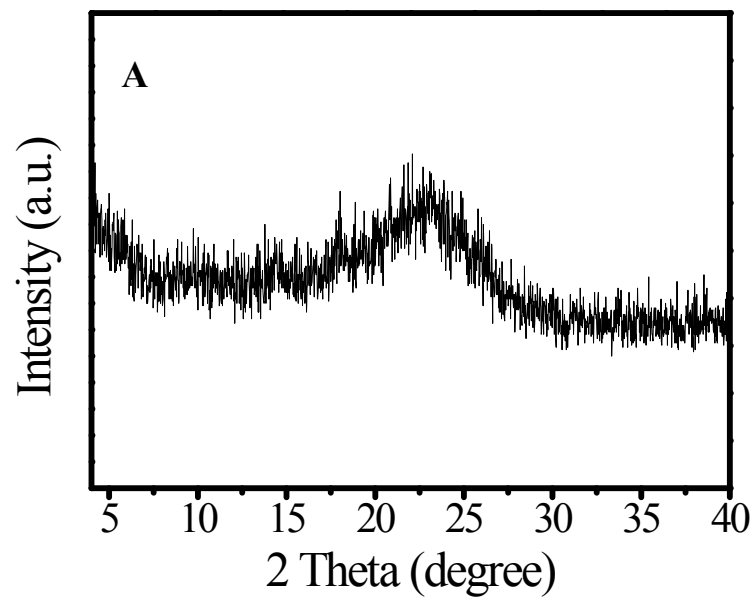


Fig. S3. (A) XRD pattern and (B) SEM image of PTMT.

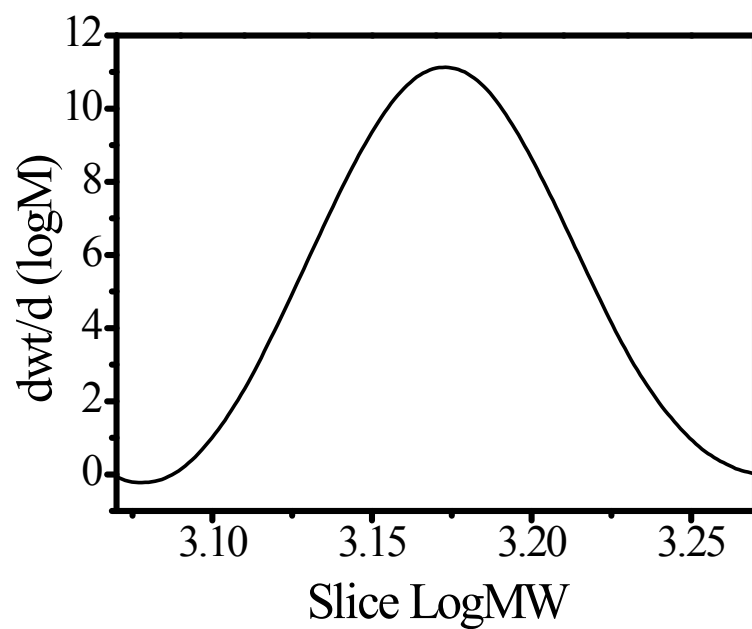


Fig. S4. Gel permeation chromatography of PTMT.

Table S1. The element analysis data of PTMT

| Element | C | N | S |
|----------------|------|------|------|
| Mass weight, % | 20.6 | 23.2 | 52.7 |