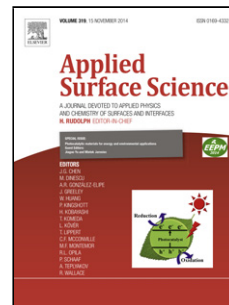


## Accepted Manuscript

Title: Bone char surface modification by nano-gold coating for elemental mercury vapor removal

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### Research Highlights

- ▶ A novel nano-composite including bone char and gold-nanoparticle was developed for capture of  $\text{Hg}^0$  vapor.
- ▶ EDS and XRD results confirm the presence of nano-gold on the surface of the bone char support.
- ▶ The majority of the pores were found to be in the mesoporous range.
- ▶ The dynamic capacity of 586  $\mu\text{g/g}$  was obtained for  $\text{Hg}^0$  vapor.

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