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## Report:

The results of our research are in press in:  
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### A double cell for x-ray absorption spectrometry of atomic Zn

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**Abstract:** A high-temperature cell with a double wall design has been constructed for x-ray absorption spectrometry of metal vapors. The inner cell, assembled from a corundum tube and thin plates without welding or reshaping, serves as a container of the vapor sample. It is not vacuum tight: instead, the outer tube provides inert atmosphere. Several spectra of K-edge atomic absorption of Zn were obtained in the stationary working regime below the Zn boiling point. The K edge profile shows an extremely strong resonance and, above the continuum threshold, coexcitations of the outer electrons.

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