

# Environmental Science: Advances

GOLD  
OPEN  
ACCESS

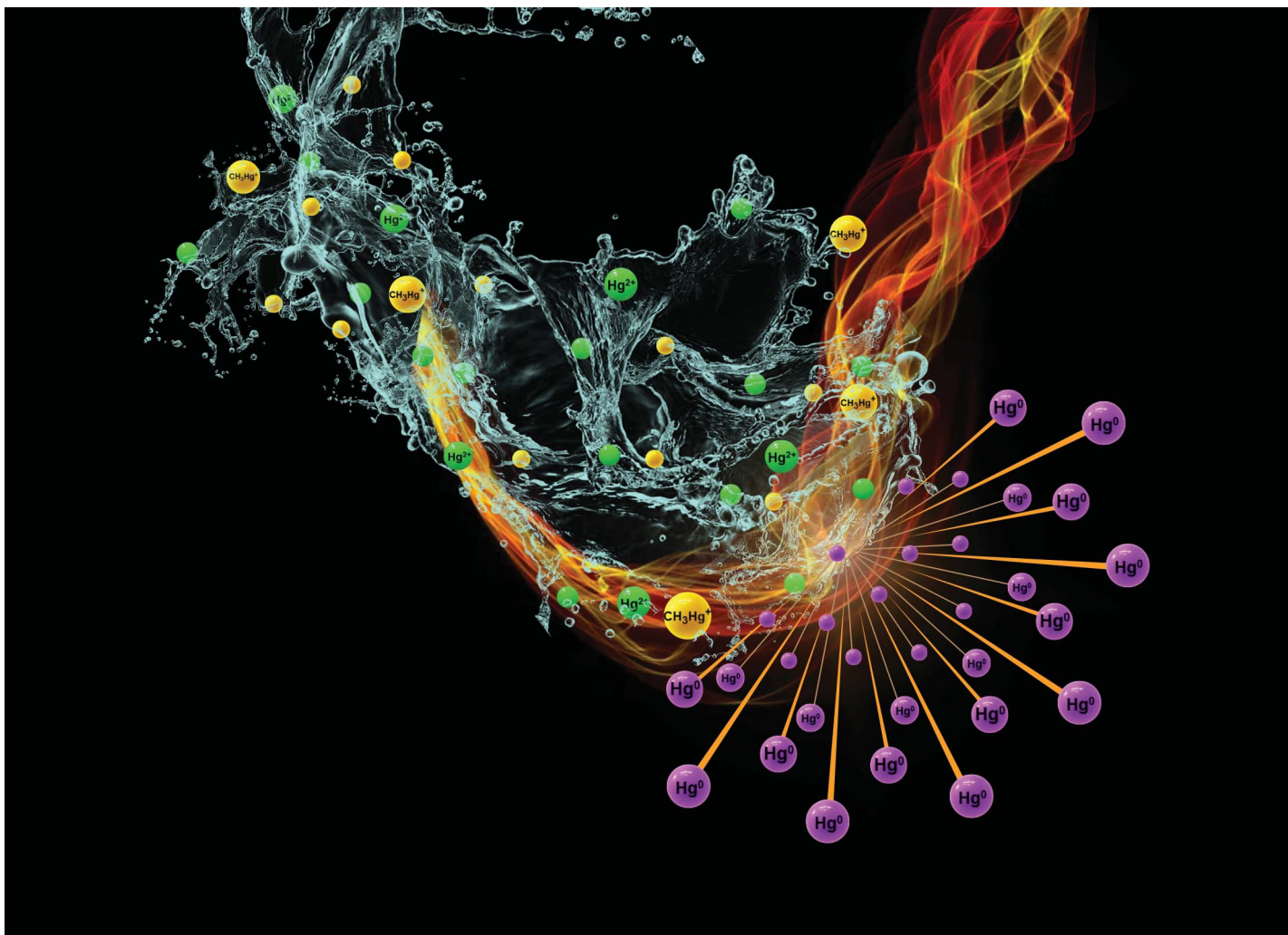
Uniting disciplines to solve  
environmental challenges

APCs waived until mid-2024

[rsc.li/esadvances](https://rsc.li/esadvances)

 @EnvSciRSC

Fundamental questions  
Elemental answers



Showcasing research from Professor Gisele Simone Lopes' laboratory, Graduate Program of Chemistry, Federal University of Ceara, Ceara, Brazil.

Infrared radiation-assisted thermochemical vapor generation for mercury speciation by atomic absorption spectrometry

A simple and low-cost thermochemical vapor generation (TVG) system coupled to cold vapor atomic absorption spectrometry (CV AAS) for rapid Hg speciation in biological samples was studied. The proposed system comprises the use of an infrared lamp to promote the efficient and controlled heating of the sample with formic acid and the formation of the vapor of  $\text{Hg}^0$ .

Special thanks to the hard PhD student workers Victor M. Campos and Jane K. S de Brito.

As featured in:



See Gisele Simone Lopes *et al.*, *J. Anal. At. Spectrom.*, 2023, **38**, 1798.