

Cite this: *Analyst*, 2021, **146**, 4972

Retraction: Rhodium nanocubes and nanotripods for highly sensitive ultraviolet surface-enhanced Raman spectroscopy

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DOI: 10.1039/d1an90061g

rsc.li/analystRetraction of 'Rhodium nanocubes and nanotripods for highly sensitive ultraviolet surface-enhanced Raman spectroscopy' by Rupali Das *et al.*, *Analyst*, 2018, **143**, 2310–2322, DOI: 10.1039/C8AN00341F

The Royal Society of Chemistry hereby wholly retracts this *Analyst* article due to concerns with the reliability of the data in the published article.

The XRD patterns in Fig. 1c and f are identical, with the exception of the 311 peak, but represent Rh nanocubes and Rh tripod nanoparticles respectively. The authors claim that the XRD spectra were obtained after baseline correction and are similar, not identical, as the crystallinity and phase are the same for the Rh nanocubes and Rh tripod nanoparticles. An expert reviewed the raw XRD data and authors' response but concluded that it did not satisfactorily address the concerns and, therefore, the data in the figure is unreliable.

The SERS spectra in Fig. 4d–f are identical with different degrees of vertical compression within each figure, but each line represents different concentrations. The authors claim that the spectra are similar, not identical, as Fig. 4d and f were recorded on an instrument with lower signal to noise ratio than Fig. 4e and therefore carbon background subtractions were used. The authors did not provide raw data for the SERS spectra in Fig. 4d–f. An expert reviewed the authors' response but concluded that it did not satisfactorily address the concerns and, therefore, the data in the figure is unreliable.

Given the significance of the concerns about the validity of the data, the findings presented in this paper are no longer reliable.

Rupali Das and R. K. Soni oppose this retraction and state that the data published in this article is accurate.

Signed: Philippa Ross, Executive Editor, *Analyst*

Date: 30th June 2021

