

RETRACTION

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Cite this: *Anal. Methods*, 2022, 14, 962

Retraction: Synergistic action of star-shaped Au/Ag nanoparticles decorated on AgFeO₂ for ultrasensitive SERS detection of a chemical warfare agent on real samples

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DOI: 10.1039/d2ay90017c

rsc.li/methods

Retraction of 'Synergistic action of star-shaped Au/Ag nanoparticles decorated on AgFeO₂ for ultrasensitive SERS detection of a chemical warfare agent on real samples' by Nazar Riswana Barveen *et al.*, *Anal. Methods*, 2020, 12, 1342–1352, DOI: 10.1039/C9AY02347J.

The Royal Society of Chemistry, with the agreement of the authors, hereby wholly retracts this *Analytical Methods* article due to concerns that the paper has fundamental errors in the data. There is disagreement over the interpretation of the SERS spectra, specifically the identification of the analyte ethyl paraoxon (PE), which does not match the known spectra. The spectra reported is more consistent with that of Rhodamine 6G, suggesting that the analyte has been misidentified, undermining the results and calling into question the conclusions of the paper. The authors' explanation for this discrepancy has been unsatisfactory. The paper is therefore being retracted to maintain the validity of the scientific record.

Signed: Nazar Riswana Barveen, Tzyy-Jiann Wang and Yu-Hsu Chang.

Date: 27 January 2022

Retraction endorsed by Philippa Ross, Executive Editor, *Analytical Methods*, 4 February 2022.

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