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Retraction: Novel techniques for enhancing the performance of support vector regression chemometric in quantitative analysis of LIBS spectra

Jeanne Andres

Retraction of 'Novel techniques for enhancing the performance of support vector regression chemometric in quantitative analysis of LIBS spectra' by Taoreed Olakunle Owolabi *et al.*, *J. Anal. At. Spectrom.*, 2017, DOI: 10.1039/c7ja00229g.

The Royal Society of Chemistry hereby wholly retracts this *Journal of Analytical Atomic Spectrometry* article due to concerns that the paper has crucial errors in the data. There is disagreement over the identification of spectral lines, as they do not agree with reference standards. The 'main' lines for some elements are missing/weaker than the 'minor' lines of the same element. This should not be possible, regardless of the chemometrics used and suggests that the elements have been misidentified, which calls into question the conclusions of the paper. The chemometric approach is not fully explained with regards to details of line identification and calibration. The authors' explanation for this discrepancy has been unsatisfactory. The editor is therefore retracting the paper to maintain the validity of the scientific record.

The authors, Taoreed Olakunle Owolabi and Mohammed Gondal, do not agree with the retraction.

Retraction endorsed by Jeanne Andres, Executive Editor, *Journal of Analytical Atomic Spectrometry*, 15th October 2019.

