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Retraction: Multifunctional fluorescent chalcogenide hybrid nanodots (MoSe₂:CdS and WSe₂:CdS) as electro catalyst (for oxygen reduction/oxygen evolution reactions) and sensing probe for lead

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Retraction of 'Multifunctional fluorescent chalcogenide hybrid nanodots (MoSe₂:CdS and WSe₂:CdS) as electro catalyst (for oxygen reduction/oxygen evolution reactions) and sensing probe for lead' by Paramita Karfa et al., *J. Mater. Chem. A*, 2017, 5, 1495–1508.

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

The XRD data in Fig. 1A has been duplicated in Fig. 1B, and the UV-Vis data in Fig. 1C has been duplicated in Fig. 1D, but they have been reported as different materials.

The XPS data in Fig. 2C, D and F duplicates data presented in other publications that was reported as different materials.¹⁻⁷

The TEM images in Fig. 3A and B contain duplications of the same particles.

The cyclic voltammetry data in Fig. 5D shows different samples but the data points are the same for each sample. The data points and patterns also duplicate data presented in other publications that was reported as different materials.^{3,6}

The images of the test strips in Fig. 6E and F have been duplicated and rotated.

Given the number and significance of the concerns, the validity of the data and, therefore, the conclusions presented in this paper are no longer reliable.

The Royal Society of Chemistry apologises for the fact that these concerns were not identified during the peer review process.

Paramita Karfa, Rashmi Madhuri and Prashant K. Sharma oppose the retraction.

Signed: Sam Keltie, Executive Editor, *Journal of Materials Chemistry A*.

Date: 23rd November 2018.

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